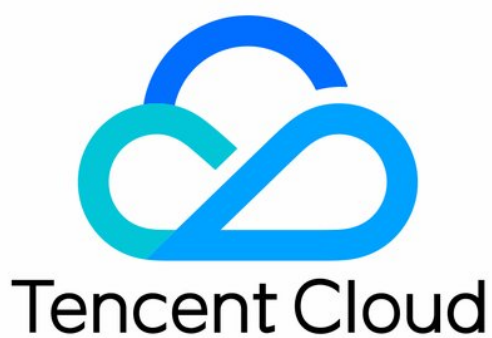


弹性伸缩

API 文档

产品文档



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History

最近更新时间：2025-08-22 15:44:27

Release 31

Release time: 2025-07-21 20:33:19

Release updates:

Improvement to existing documentation.

New APIs:

- [EnterStandby](#)

Modified data structures:

- [InternetAccessible](#)
 - New members:InternetServiceProvider, IPv4AddressType, AntiDDoSPackageId, IsKeepEIP
- [RollingUpdateSettings](#)
 - New members:FailProcess
- [ServiceSettings](#)
 - New members:DesiredCapacitySyncWithMaxMinSize

Release 30

Release time: 2025-05-14 11:17:12

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeAutoScalingGroupLastActivities](#)
 - New input parameters:ExcludeCancelledActivity

Modified data structures:

- [Instance](#)

- **Modified members:** DisasterRecoverGroupIds

Release 29

Release time: 2025-02-05 15:13:25

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ClearLaunchConfigurationAttributes](#)
 - New input parameters:ClearMetadata
- [CreateLaunchConfiguration](#)
 - New input parameters:Metadata
- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters:Metadata

New data structures:

- [Metadata](#)
- [MetadataItem](#)

Modified data structures:

- [ServiceSettings](#)
 - New members:AutoUpdateInstanceTags

Release 28

Release time: 2024-12-03 17:50:21

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateLaunchConfiguration](#)
 - New input parameters:DedicatedClusterId
- [ModifyLaunchConfigurationAttributes](#)

- New input parameters: DedicatedClusterId

Modified data structures:

- [LaunchConfiguration](#)
 - New members: DedicatedClusterId

Release 27

Release time: 2024-11-27 15:17:12

Release updates:

Improvement to existing documentation.

Modified data structures:

- [Advice](#)
 - **Modified members:** Level
- [ScalingPolicy](#)
 - **Modified members:** ScalingPolicyType

Release 26

Release time: 2024-11-08 16:02:21

Release updates:

Improvement to existing documentation.

Modified data structures:

- [RollingUpdateSettings](#)
 - New members: MaxSurge

Release 25

Release time: 2024-10-25 15:15:42

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ClearLaunchConfigurationAttributes](#)
 - New input parameters: ClearInstanceTags
- [CreateLaunchConfiguration](#)
 - New input parameters: ImageFamily
 - **Modified input parameters:** ImageId
- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters: InstanceTags, ImageFamily

Modified data structures:

- [DataDisk](#)
 - New members: BurstPerformance
- [EnhancedService](#)
 - **Deprecate members:** AutomationService
- [HostNameSettings](#)
 - New members: HostNameSuffix
- [InstanceNameSettings](#)
 - New members: InstanceNameSuffix
- [LaunchConfiguration](#)
 - New members: ImageFamily
- [ServiceSettings](#)
 - New members: ReplaceMode

Release 24

Release time: 2024-02-28 11:42:51

Release updates:

Improvement to existing documentation.

New APIs:

- [CancelInstanceRefresh](#)
- [DescribeRefreshActivities](#)
- [ExitStandby](#)
- [ResumeInstanceRefresh](#)
- [RollbackInstanceRefresh](#)
- [StartInstanceRefresh](#)

- [StopInstanceRefresh](#)

Deprecated APIs:

- UpgradeLaunchConfiguration

Modified APIs:

- [CreateAutoScalingGroup](#)
 - New input parameters:InstanceNameIndexSettings
- [ModifyAutoScalingGroup](#)
 - New input parameters:InstanceNameIndexSettings
- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters:LoginSettings

New data structures:

- [InstanceNameIndexSettings](#)
- [RefreshActivity](#)
- [RefreshBatch](#)
- [RefreshBatchRelatedInstance](#)
- [RefreshSettings](#)
- [RollingUpdateSettings](#)

Modified data structures:

- [AutoScalingGroup](#)
 - New members:InstanceNameIndexSettings
- [LaunchConfiguration](#)
 - New members:DisasterRecoverGroupIds

Release 23

Release time: 2023-08-07 17:49:31

Release updates:

Improvement to existing documentation.

New data structures:

- [RelatedInstance](#)

Modified data structures:

- [Activity](#)
 - New members:RelatedInstanceSet
 - **Deprecate members:** ActivityRelatedInstanceSet
- [Advice](#)
 - New members:Level

Release 22

Release time: 2023-04-13 10:01:55

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ClearLaunchConfigurationAttributes](#)
 - New input parameters:ClearDisasterRecoverGroupIds
- [CreateLaunchConfiguration](#)
 - New input parameters:DisasterRecoverGroupIds
- [CreateScalingPolicy](#)
 - New input parameters:ScalingPolicyType, PredefinedMetricType, TargetValue, EstimatedInstanceWarmup, DisableScaleIn
 - **Modified input parameters:** AdjustmentType, AdjustmentValue, MetricAlarm
- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters:DisasterRecoverGroupIds
- [ModifyScalingPolicy](#)
 - New input parameters:PredefinedMetricType, TargetValue, EstimatedInstanceWarmup, DisableScaleIn

Modified data structures:

- [Instance](#)
 - New members:WarmupStatus, DisasterRecoverGroupIds
- [MetricAlarm](#)
 - New members:PreciseThreshold
- [ScalingPolicy](#)
 - New members:ScalingPolicyType, PredefinedMetricType, TargetValue, EstimatedInstanceWarmup, DisableScaleIn, MetricAlarms

Release 21

Release time: 2023-01-12 16:23:34

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateLaunchConfiguration](#)
 - New input parameters:IPv6InternetAccessible
- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters:IPv6InternetAccessible
- [UpgradeLaunchConfiguration](#)
 - New input parameters:IPv6InternetAccessible

New data structures:

- [IPv6InternetAccessible](#)

Modified data structures:

- [LaunchConfiguration](#)
 - New members:IPv6InternetAccessible

Release 20

Release time: 2022-12-05 10:23:52

Release updates:

Improvement to existing documentation.

New data structures:

- [RunAutomationServiceEnabled](#)

Modified data structures:

- [EnhancedService](#)
 - New members:AutomationService, AutomationToolsService

Release 19

Release time: 2022-10-10 17:21:30

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateLifecycleHook](#)
 - New input parameters:LifecycleCommand
- [ModifyLifecycleHook](#)
 - New input parameters:LifecycleCommand
- [UpgradeLifecycleHook](#)
 - New input parameters:LifecycleCommand

New data structures:

- [LifecycleCommand](#)

Modified data structures:

- [LifecycleActionResultInfo](#)
 - New members:InvocationId, InvokeCommandResult
- [LifecycleHook](#)
 - New members:LifecycleCommand

Release 18

Release time: 2022-09-05 10:56:15

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters:HpcClusterId

Release 17

Release time: 2022-08-17 15:16:40

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateLaunchConfiguration](#)
- [DescribeLaunchConfigurations](#)
- [DisableAutoScalingGroup](#)
- [ScaleInInstances](#)
- [ScaleOutInstances](#)
- [UpgradeLaunchConfiguration](#)

New data structures:

- [AutoScalingGroupAbstract](#)
- [InstanceTag](#)
- [InvocationResult](#)
- [LaunchConfiguration](#)
- [LimitedLoginSettings](#)
- [LoginSettings](#)

Modified data structures:

- [Activity](#)
 - New members: `InvocationResultSet`

Release 16

Release time: 2022-05-12 11:05:54

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyLifecycleHook](#)

Deleted APIs:

- [CreateLaunchConfiguration](#)

- DescribeLaunchConfigurations
- DisableAutoScalingGroup
- ScaleInInstances
- ScaleOutInstances
- UpgradeLaunchConfiguration

Deleted data structures:

- AutoScalingGroupAbstract
- InstanceTag
- LaunchConfiguration
- LimitedLoginSettings
- LoginSettings

Modified data structures:

- [AutoScalingAdvice](#)
 - New members:Level
- [DataDisk](#)
 - New members:Encrypt, ThroughputPerformance

Release 15

Release time: 2022-03-16 17:29:42

Release updates:

Improvement to existing documentation.

Modified data structures:

- [DataDisk](#)
 - New members>DeleteWithInstance
- [ScheduledAction](#)
 - New members:ScheduledType

Release 14

Release time: 2022-03-07 16:22:55

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyDesiredCapacity](#)
 - New input parameters: MinSize, MaxSize

Release 13

Release time: 2022-01-18 10:26:28

Release updates:

Improvement to existing documentation.

New APIs:

- [AttachLoadBalancers](#)
- [DescribeAutoScalingAdvices](#)
- [DetachLoadBalancers](#)
- [ModifyLoadBalancerTargetAttributes](#)

Modified APIs:

- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters: CamRoleName

New data structures:

- [Advice](#)
- [AutoScalingAdvice](#)
- [ForwardLoadBalancerIdentification](#)

Release 12

Release time: 2021-11-16 11:25:22

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateNotificationConfiguration](#)

- New input parameters: TargetType, QueueName, TopicName
- **Modified input parameters:** NotificationUserGroupIds
- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters: EnhancedService
- [ModifyNotificationConfiguration](#)
 - New input parameters: QueueName, TopicName

Modified data structures:

- [AutoScalingNotification](#)
 - New members: TargetType, QueueName, TopicName

Release 11

Release time: 2021-09-18 11:09:26

Release updates:

Improvement to existing documentation.

New data structures:

- [DetailedStatusMessage](#)

Modified data structures:

- [Activity](#)
 - New members: DetailedStatusMessageSet

Release 10

Release time: 2021-08-16 14:33:41

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateAutoScalingGroup](#)
 - New input parameters: CapacityRebalance
- [ModifyAutoScalingGroup](#)

- New input parameters:CapacityRebalance

Release 9

Release time: 2021-08-05 16:01:39

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateAutoScalingGroup](#)
 - New input parameters:InstanceAllocationPolicy, SpotMixedAllocationPolicy
- [ModifyAutoScalingGroup](#)
 - New input parameters:InstanceAllocationPolicy, SpotMixedAllocationPolicy

Release 8

Release time: 2021-07-23 10:36:24

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ClearLaunchConfigurationAttributes](#)
 - New input parameters:ClearHostNameSettings, ClearInstanceNameSettings
- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters:HostNameSettings, InstanceNameSettings

New data structures:

- [SpotMixedAllocationPolicy](#)

Modified data structures:

- [AutoScalingGroup](#)
 - New members:HealthCheckType, LoadBalancerHealthCheckGracePeriod, InstanceAllocationPolicy, SpotMixedAllocationPolicy, CapacityRebalance

Release 7

Release time: 2021-07-09 19:17:03

Release updates:

Improvement to existing documentation.

Deleted APIs:

- [CreatePailInstance](#)
- [DescribePailInstances](#)
- [PreviewPaiDomainName](#)

Modified APIs:

- [CreateAutoScalingGroup](#)
 - New input parameters: HealthCheckType, LoadBalancerHealthCheckGracePeriod
- [ModifyAutoScalingGroup](#)
 - New input parameters: HealthCheckType, LoadBalancerHealthCheckGracePeriod

Deleted data structures:

- [PailInstance](#)

Modified data structures:

- [ServiceSettings](#)
 - New members: ReplaceLoadBalancerUnhealthy

Release 6

Release time: 2021-06-16 16:43:03

Release updates:

Improvement to existing documentation.

New APIs:

- [ScaleInInstances](#)
- [ScaleOutInstances](#)

Release 5

Release time: 2021-05-21 11:39:44

Release updates:

Improvement to existing documentation.

Modified data structures:

- [LaunchConfiguration](#)
 - New members:DiskTypePolicy

Release 4

Release time: 2021-04-19 14:21:02

Release updates:

Improvement to existing documentation.

New APIs:

- [ClearLaunchConfigurationAttributes](#)

Release 3

Release time: 2021-04-08 11:41:43

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateLaunchConfiguration](#)
 - New input parameters:DiskTypePolicy
- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters:DiskTypePolicy, SystemDisk, DataDisks
- [UpgradeLaunchConfiguration](#)
 - New input parameters:DiskTypePolicy

Release 2

Release time: 2021-02-24 19:27:41

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifyLaunchConfigurationAttributes](#)
 - New input parameters: SecurityGroupIds, InternetAccessible, InstanceChargeType, InstanceChargePrepaid, InstanceMarketOptions

Existing Release

Release time: 2020-07-24 11:45:41

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- [AttachInstances](#)
- [CompleteLifecycleAction](#)
- [CreateAutoScalingGroup](#)
- [CreateAutoScalingGroupFromInstance](#)
- [CreateLaunchConfiguration](#)
- [CreateLifecycleHook](#)
- [CreateNotificationConfiguration](#)
- [CreatePaiInstance](#)
- [CreateScalingPolicy](#)
- [CreateScheduledAction](#)
- [DeleteAutoScalingGroup](#)
- [DeleteLaunchConfiguration](#)
- [DeleteLifecycleHook](#)
- [DeleteNotificationConfiguration](#)
- [DeleteScalingPolicy](#)
- [DeleteScheduledAction](#)
- [DescribeAccountLimits](#)
- [DescribeAutoScalingActivities](#)

- [DescribeAutoScalingGroupLastActivities](#)
- [DescribeAutoScalingGroups](#)
- [DescribeAutoScalingInstances](#)
- [DescribeLaunchConfigurations](#)
- [DescribeLifecycleHooks](#)
- [DescribeNotificationConfigurations](#)
- [DescribePaiInstances](#)
- [DescribeScalingPolicies](#)
- [DescribeScheduledActions](#)
- [DetachInstances](#)
- [DisableAutoScalingGroup](#)
- [EnableAutoScalingGroup](#)
- [ExecuteScalingPolicy](#)
- [ModifyAutoScalingGroup](#)
- [ModifyDesiredCapacity](#)
- [ModifyLaunchConfigurationAttributes](#)
- [ModifyLoadBalancers](#)
- [ModifyNotificationConfiguration](#)
- [ModifyScalingPolicy](#)
- [ModifyScheduledAction](#)
- [PreviewPaiDomainName](#)
- [RemoveInstances](#)
- [SetInstancesProtection](#)
- [StartAutoScalingInstances](#)
- [StopAutoScalingInstances](#)
- [UpgradeLaunchConfiguration](#)
- [UpgradeLifecycleHook](#)

Existing data structures:

- [Activity](#)
- [ActivityRelatedInstance](#)
- [AutoScalingGroup](#)
- [AutoScalingGroupAbstract](#)
- [AutoScalingNotification](#)
- [DataDisk](#)
- [EnhancedService](#)
- [Filter](#)

- [ForwardLoadBalancer](#)
- [HostNameSettings](#)
- [Instance](#)
- [InstanceChargePrepaid](#)
- [InstanceMarketOptionsRequest](#)
- [InstanceNameSettings](#)
- [InstanceTag](#)
- [InternetAccessible](#)
- [LaunchConfiguration](#)
- [LifecycleActionResultInfo](#)
- [LifecycleHook](#)
- [LimitedLoginSettings](#)
- [LoginSettings](#)
- [MetricAlarm](#)
- [NotificationTarget](#)
- [PailInstance](#)
- [RunMonitorServiceEnabled](#)
- [RunSecurityServiceEnabled](#)
- [ScalingPolicy](#)
- [ScheduledAction](#)
- [ServiceSettings](#)
- [SpotMarketOptions](#)
- [SystemDisk](#)
- [Tag](#)
- [TargetAttribute](#)

Introduction

最近更新时间：2024-12-03 17:50:31

Welcome to Tencent Cloud Auto Scaling (AS).

Auto Scaling (AS) can automatically adjust computing resources based on users' business needs and policies. AS increases or decreases CVM instances and completes the configuration according to user-defined scheduled, periodic, or monitoring policies. For example, it can automatically increase CVM instances during the peak business demand period to ensure smooth and healthy business operations, and automatically decrease CVM instances during the low business demand period to save resources and costs.

Note:

- All AS APIs in this section are the latest version, API 3.0, and all new features related to AS will be updated in this section. We strongly recommend you to use the latest API 3.0.

API Category

最近更新时间：2025-07-23 15:50:31

Scaling Group APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateAutoScalingGroupFromInstance	Creates launch configuration and scaling group based on an instance	20
ModifyDesiredCapacity	Modifies the desired number of instances	20
AttachLoadBalancers	Adds one or more CLBs	20
DetachLoadBalancers	Unbinds one or more CLBs	20
DisableAutoScalingGroup	Disables an auto-scaling group	20
EnableAutoScalingGroup	Enables an auto scaling group	20
ModifyLoadBalancerTargetAttributes	Modifies the target rule attributes of the CLB	20
ModifyLoadBalancers	Modifies the load balancers of an auto scaling group	20
DescribeAutoScalingActivities	Queries scaling activities	20
DescribeAutoScalingGroupLastActivities	Queries the latest activity history of an auto scaling group	20
DeleteAutoScalingGroup	Deletes an auto scaling group	20
CreateAutoScalingGroup	Creating an Auto Scaling Group	20
DescribeAutoScalingAdvices	Queries suggestions for scaling group configurations	20
DescribeAutoScalingGroups	Queries auto scaling groups	60
DescribeAutoScalingInstances	Queries instances	60

ModifyAutoScalingGroup	Modifies an auto scaling group	20
ScaleInInstances	Reduces the specified number of instances	20
ScaleOutInstances	Adds the specified number of instances	20

Scaling Group Instances APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AttachInstances	Adds CVM instances to an auto scaling group	20
DetachInstances	Detaches CVM instances from an auto scaling group	20
EnterStandby	Enter an instance into standby status	20
ExitStandby	Exits instances from standby status	20
RemoveInstances	Removes CVM instances from an auto scaling group	20
SetInstancesProtection	Enables scale-in protection for an instance	20
StartAutoScalingInstances	Starts up CVM instances in a scaling group	20
StopAutoScalingInstances	Shuts down CVM instances in the scaling group	20

Launch Configuration APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ClearLaunchConfigurationAttributes	Clears launch	20

	configuration attributes	
CreateLaunchConfiguration	Creates a launch configuration	20
DeleteLaunchConfiguration	Deletes a launch configuration	10
DescribeLaunchConfigurations	Queries launch configurations	20
ModifyLaunchConfigurationAttributes	Modifies launch configuration attributes	20
UpgradeLaunchConfiguration	Upgrades a launch configuration	20

Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeAccountLimits	Queries resource limits for a user account	20

Lifecycle Hook APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CompleteLifecycleAction	Completes a lifecycle action	20
CreateLifecycleHook	Creating a Lifecycle Hook	20
DeleteLifecycleHook	Deletes a lifecycle hook	20
DescribeLifecycleHooks	Queries lifecycle hooks	20
ModifyLifecycleHook	Modifies a lifecycle hook	20
UpgradeLifecycleHook	Upgrades a lifecycle hook	20

Alarm Trigger Policy APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateScalingPolicy	Creates an alarm trigger policy	20
DeleteScalingPolicy	Deletes an alarm trigger policy	20
DescribeScalingPolicies	Queries alarm trigger policies	20
ExecuteScalingPolicy	Triggers a scaling policy	20
ModifyScalingPolicy	Modifies an alarm trigger policy	20

Scheduled Task APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateScheduledAction	Creates a scheduled task	20
DeleteScheduledAction	Deletes a scheduled task	20
DescribeScheduledActions	Queries scheduled tasks	20
ModifyScheduledAction	Modifies a scheduled task	20

Notification APIs

API Name	Feature	Frequency Limit (maximum requests per second)

CreateNotificationConfiguration	Creates a notification	20
DeleteNotificationConfiguration	Deletes a notification	20
DescribeNotificationConfigurations	Queries notifications	20
ModifyNotificationConfiguration	Modifies a notification	20

Instance Refresh APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CancelInstanceRefresh	Cancels instance refresh	20
DescribeRefreshActivities	Queries the instance refresh activity	20
ResumeInstanceRefresh	Resumes instance refresh	20
RollbackInstanceRefresh	Rolls back instance refresh	20
StartInstanceRefresh	Starts instance refresh	20
StopInstanceRefresh	Pauses instance refresh	20

Scaling Group APIs

ModifyDesiredCapacity

最近更新时间：2025-07-23 15:50:44

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (ModifyDesiredCapacity) is used to modify the desired number of instances in the specified auto scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyDesiredCapacity.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain the scaling group ID by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/group) or calling the api DescribeAutoScalingGroups (https://intl.cloud.tencent.com/document/api/377/20438?

			from_cn_redirect=1), and retrieve AutoScalingGroupId from the returned information.
DesiredCapacity	Yes	Integer	Expected number of instances, value ranges from 0 to 2000, to meet $MaxSize \geq DesiredCapacity \geq MinSize$.
MinSize	No	Integer	Minimum number of instances. value range: [0,2000]. to meet $MaxSize \geq DesiredCapacity \geq MinSize$ at the same time.
MaxSize	No	Integer	Maximum instance count. value range [0,2000]. to meet $MaxSize \geq DesiredCapacity \geq MinSize$.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying the Expected Number of Instances in a Scaling Group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyDesiredCapacity
<Common request parameters>

{
  "AutoScalingGroupId": "asg-nvnlpbb8",
  "DesiredCapacity": 2
}
```

Output Example

```
{
  "Response": {
    "RequestId": "2f7c0f11-edfd-4598-a5f6-fb5c10cc9d8e"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.AssertDesiredCapacityFailed	The declared original expected instance number does not match the actual original expected instance number.
InvalidParameterValue.BaseCapacityTooLarge	The specified base capacity cannot exceed

	the max capacity.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.Size	The value of maximum, minimum, or desired number of instances in the auto scaling group is invalid.
LimitExceeded.DesiredCapacityLimitExceeded	The desired number of instances exceeds the limit.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceUnavailable.AutoScalingGroupAbnormalStatus	The auto scaling group is exceptional.
ResourceUnavailable.AutoScalingGroupDisabled	The auto scaling group is disabled.

CreateAutoScalingGroupFromInstance

最近更新时间：2025-07-23 15:50:49

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to create launch configurations and scaling groups based on an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateAutoScalingGroupFromInstance.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupName	Yes	String	The scaling group name. It must be unique under your account. The name can only contain letters, numbers, underscore, hyphen "-" and periods. It cannot exceed 55 bytes.
InstanceId	Yes	String	Instance ID. you can get the instance ID by logging in to the console or making an api call to

			DescribeInstances and retrieving the <code>InstanceId</code> from the returned information.
MinSize	Yes	Integer	Minimum number of instances. value range: [0,2000]. to meet $MaxSize \geq DesiredCapacity \geq MinSize$ at the same time.
MaxSize	Yes	Integer	Maximum instance count. value range [0,2000]. to meet $MaxSize \geq DesiredCapacity \geq MinSize$.
DesiredCapacity	No	Integer	Expected number of instances, value ranges from 0 to 2000, default value equals current MinSize, to meet $MaxSize \geq DesiredCapacity \geq MinSize$.
InheritInstanceTag	No	Boolean	Whether to inherit the instance tag. Default value: False

3. Output Parameters

Parameter Name	Type	Description
AutoScalingGroupId	String	The scaling group ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a launch configuration and scaling group based on an instance

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateAutoScalingGroupFromInstance
<Common request parameters>

{
  "DesiredCapacity": 0,
```

```
"InstanceId": "ins-19a14o9y",
"AutoScalingGroupName": "as-test",
"MinSize": 0,
"MaxSize": 1,
"InheritInstanceTag": false
}
```

Output Example

```
{
  "Response": {
    "AutoScalingGroupId": "asg-cqatht5b",
    "RequestId": "19c10733-d0e8-4f58-ac82-e1b1affb0bbb"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

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Error Code	Description
AccountQualificationRestrictions	The requesting account failed to pass the qualification review.
CallCvmError	CVM API call failed.
InternalError	An internal error occurred.
InternalError.CallVpcError	VPC API call failed.
InternalError.CalleeError	Exceptions occurred while invoking other services.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.InScenario	The parameter is invalid in a specific scenario.
InvalidParameterValue.CvmConfigurationError	Exception with CVM parameter validation.
InvalidParameterValue.CvmError	Exception with CVM parameter validation.
InvalidParameterValue.DuplicatedSubnet	Duplicated subnet.
InvalidParameterValue.ForwardLb	A CLB should be specified.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
InvalidParameterValue.LaunchConfigurationNameDuplicated	The launch configuration name already exists.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.Size	The value of maximum, minimum, or desired number of instances in the auto scaling group is invalid.
InvalidParameterValue.TooLong	Too many values.
LimitExceeded.AutoScalingGroupLimitExceeded	The number of auto scaling groups exceeds the limit.
LimitExceeded.DesiredCapacityLimitExceeded	The desired number of instances exceeds the limit.
LimitExceeded.LaunchConfigurationQuotaNotEnough	You are short of the launch

	configuration quota.
LimitExceeded.MaxSizeLimitExceeded	The maximum number of instances exceeds the limit.
LimitExceeded.MinSizeLimitExceeded	The minimum number of instances is below the limit.
MissingParameter	Parameter missing.
ResourceNotFound.InstancesNotFound	The specified instance does not exist.
ResourceUnavailable.LaunchConfigurationStatusAbnormal	The launch configuration is exceptional.
ResourceUnavailable.ProjectInconsistent	Project inconsistency.
ResourceUnavailable.StoppedInstanceNotAllowAttach	Unable to add instances to the scaling group when they are shut down.

ModifyLoadBalancers

最近更新时间：2025-07-23 15:50:43

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to modify the cloud load balancers of a scaling group.

- This API can specify a new cloud load balancer configuration for the scaling group. The new configuration overwrites the original load balancer configuration.
- To clear the cloud load balancer of the scaling group, specify only the scaling group ID but not the specific cloud load balancer.
- This API modifies the cloud load balancer of the scaling group and generate a scaling activity to asynchronously modify the cloud load balancers of existing instances.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyLoadBalancers.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.

AutoScalingGroupIds	Yes	String	Scaling group ID. you can obtain the scaling group ID by logging in to the console or calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupIds from the returned information.
LoadBalancerIds.N	No	Array of String	List of classic clb ids. currently, the maximum length is 20. you cannot specify LoadBalancerIds and ForwardLoadBalancers at the same time. it can be obtained through the DescribeLoadBalancers api.
ForwardLoadBalancers.N	No	Array of ForwardLoadBalancer	Specifies the list of load balancers with a current maximum length of 100. either LoadBalancerIds or ForwardLoadBalancers can be specified at the same time. can be obtained through the DescribeLoadBalancers api.
LoadBalancersCheckPolicy	No	String	CLB verification policy. Valid values: ALL and DIFF. Default value: ALL. • ALL: The CLB passes the verification only when all CLB parameters are valid. Otherwise, a verification error occurs. • DIFF: The CLB passes the verification only when the CLB parameters with changes are valid. Otherwise, a verification error occurs.

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
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4. Example

Example1 Clearing Load Balancers of Scaling Groups

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyLoadBalancers
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s"
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-rp63a5q8",
    "RequestId": "7de5a82f-b781-4302-b723-e7a879c20767"
  }
}
```

Example2 Modifying Load Balancers of Scaling Groups to Classic Load Balancers lb-crhgatrf

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyLoadBalancers
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "LoadBalancerIds": [
```

```
"lb-crhgatrf"
]
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-67izy66g",
    "RequestId": "bd3c91e8-3051-4c02-ac58-54d47b9c9d63"
  }
}
```

Example3 Modifying Load Balancers of Scaling Groups to Application-based Load Balancer lb-23aejgcv with Listener lbl-ncw704sn

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyLoadBalancers
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "ForwardLoadBalancers": [
    {
      "TargetAttributes": [
        {
          "Port": 8080,
          "Weight": 10
        }
      ],
      "Region": "ap-guangzhou",
      "LocationId": "loc-13hmaev9",
      "ListenerId": "lbl-ncw704sn",
      "LoadBalancerId": "lb-23aejgcv"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-9asdde1c",
    "RequestId": "8d78668d-61eb-456d-855b-f34f91371089"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalServerError.CallLbError	CLB API call failed.
InternalServerError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.

InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.InScenario	The parameter is invalid in a specific scenario.
InvalidParameterValue.ClassicLb	A classic CLB should be specified.
InvalidParameterValue.DuplicatedForwardLb	Duplicate CLB instances
InvalidParameterValue.ForwardLb	A CLB should be specified.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidClbRegion	The regions specified for CLB is invalid.
InvalidParameterValue.LbProjectInconsistent	The load balancer is in a different project.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.TargetPortDuplicated	The backend port of the CLB layer-4 listener already exists.
MissingParameter.InScenario	A parameter is missing in a specific scenario.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.ListenerNotFound	The specified listener does not exist.
ResourceNotFound.LoadBalancerNotFound	The specified load balancer was not found.
ResourceNotFound.LocationNotFound	The specified location does not exist.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.LbBackendRegionInconsistent	The backend region of the CLB is not the same as the one for AS service.
ResourceUnavailable.LbVpcInconsistent	The CLB and scaling group should reside in the same VPC.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

EnableAutoScalingGroup

最近更新时间：2025-07-23 15:50:45

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (EnableAutoScalingGroup) is used to enable the specified auto scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: EnableAutoScalingGroup.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. you can obtain the scaling group ID by logging in to the console or making an api call to DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the returned information.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Enabling the specified scaling group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: EnableAutoScalingGroup
<Common request parameters>

{
  "AutoScalingGroupId": "asg-nvnlpbb8"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "a1c937b5-5f0b-4bf3-bdfb-bb859aceda6f"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)

- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceUnavailable.AutoScalingGroupInRefreshActivity	The scaling group is already involved in another instance refresh activity.

DisableAutoScalingGroup

最近更新时间：2025-07-23 15:50:45

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to disable the specified auto-scaling group.

- When a scaling group is disabled, the following activities are not triggered automatically:
 - Scaling activities triggered alert policies
 - Scaling activities triggered by desired group capacity
 - Replacement of unhealthy instances
 - Scheduled actions
- When the scaling group is disabled, you can trigger scaling activities manually, including:
 - Scale out to the specify number of instances (ScaleOutInstances)
 - Scale in to the specify number of instances (ScaleInInstances)
 - Remove instances from the scaling group (DetachInstances)
 - Delete instances from the scaling group (RemoveInstances)
 - Add instances to a scaling group (AttachInstances)
 - Shut down CVM instances in a scaling group (StopAutoScalingInstances)
 - Start up CVM instances in a scaling group (StartAutoScalingInstances)

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description

Action	Yes	String	Common Params . The value used for this API: DisableAutoScalingGroup.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain the scaling group ID by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/group) or calling the api DescribeAutoScalingGroups (https://intl.cloud.tencent.com/document/api/377/20438?from_cn_redirect=1), and retrieve AutoScalingGroupId from the returned information.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Disabling the specified scaling group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DisableAutoScalingGroup
<Common request parameters>

{
  "AutoScalingGroupId": "asg-nvnlpbb8"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "aa9ead18-44c8-42a8-a68b-ac6206969c2c"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.

ModifyLoadBalancerTargetAttributes

最近更新时间：2025-07-23 15:50:43

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to modify the target rule attributes of the CLB in the scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for the ModifyLoadBalancerTargetAttributes.
Version	Yes	String	Common Params . The value used for the API version.
Region	Yes	String	Common Params . For more information, see list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. Obtain the scaling group ID from the console (https://console.intl.cloud.tencent.com), or calling the api DescribeAutoScalingGroups (https://intl.cloud.tencent.com/document/product/459/19711), and retrieve AutoScalingGroupId from the returned information.

ForwardLoadBalancers.N	Yes	Array of ForwardLoadBalancer	Specifies the list of load balancers who attributes need modification, with a list can be obtained through the DescribeL
------------------------	-----	--	--

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modify the Target Rule Attribute of Application CLB lb-23aejgcv (Listener lbl-ncw704sn, Forwarding Path loc-l3hmaev9), Change the Port to 8080 and the Weight to 20

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyLoadBalancerTargetAttributes
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "ForwardLoadBalancers": [
    {
      "TargetAttributes": [
        {
          "Port": 8080,
          "Weight": 20
        }
      ],
      "Region": "ap-guangzhou",
      "LocationId": "loc-l3hmaev9",
      "ListenerId": "lbl-ncw704sn",
      "LoadBalancerId": "lb-23aejgcv"
```



```
}  
]  
}
```

Output Example

```
{  
  "Response": {  
    "ActivityId": "asa-9asddelc",  
    "RequestId": "8d78668d-61eb-456d-855b-f34f91371089"  
  }  
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.NoActivityToGenerate	No scaling activity is generated.

InternalError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.InScenario	The parameter is invalid in a specific scenario.
InvalidParameter.LoadBalancerNotInAutoScalingGroup	The specified CLB does not exist in the current scaling group.
InvalidParameterValue.ClassicLb	A classic CLB should be specified.
InvalidParameterValue.ForwardLb	A CLB should be specified.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidClbRegion	The regions specified for CLB is invalid.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.TargetPortDuplicated	The backend port of the CLB layer-4 listener already exists.
LimitExceeded.AfterAttachLbLimitExceeded	Binding with the specified CLBs will make the total number of bound CLBs exceeds the upper limit.
MissingParameter.InScenario	A parameter is missing in a specific scenario.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.ListenerNotFound	The specified listener does not exist.
ResourceNotFound.LoadBalancerNotFound	The specified load balancer was not found.
ResourceNotFound.LoadBalancerNotInAutoScalingGroup	The specified CLB does not exist in the current scaling group.
ResourceNotFound.LocationNotFound	The specified location does not exist.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.InstanceInOperation	The specified instance is active.

ResourceUnavailable.LbBackendRegionInconsistent	The backend region of the CLB is not the same as the one for AS service.
ResourceUnavailable.LbProjectInconsistent	The CLBs are not in the same project.
ResourceUnavailable.LbVpcInconsistent	The CLB and scaling group should reside in the same VPC.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

DetachLoadBalancers

最近更新时间：2025-07-23 15:50:46

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to unbind one or more CLBs from a scaling group. This API will not terminate CLBs.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Par DetachLoadE
Version	Yes	String	Common Par 19.
Region	Yes	String	Common Par list of regions
AutoScalingGroupIid	Yes	String	Scaling group to the consol (https://cons or calling the (https://intl.c from_cn_redi the returned

LoadBalancerIds.N	No	Array of String	Specifies a list of LoadBalancerIds. The maximum length of the array is 10. For more information, see DescribeLoadBalancers .
ForwardLoadBalancerIdentifications.N	No	Array of ForwardLoadBalancerIdentification	Specifies the information of the LoadBalancer that can be specified through the LoadBalancerIdentifications parameter.

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Unbinding the classic CLB `lb-crhgatrf` from the security group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DetachLoadBalancers
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "LoadBalancerIds": [
    "lb-crhgatrf"
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-67izy66g",
    "RequestId": "bd3c91e8-3051-4c02-ac58-54d47b9c9d63"
  }
}
```

Example2 Unbinding the application CLB `lb-23aejgcv` (listener: `lbl-ncw704sn`, forwarding rule ID: `loc-l3hmaev9`) from the security group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DetachLoadBalancers
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "ForwardLoadBalancerIdentifications": [
    {
      "LocationId": "loc-l3hmaev9",
      "ListenerId": "lbl-ncw704sn",
      "LoadBalancerId": "lb-23aejgcv"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-9asddelc",
    "RequestId": "8d78668d-61eb-456d-855b-f34f91371089"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalServerError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.InScenario	The parameter is invalid in a specific scenario.
InvalidParameter.LoadBalancerNotInAutoScalingGroup	The specified CLB does not exist in the current scaling group.
InvalidParameter.MustOneParameter	A parameter is missing. One of the two parameters must be specified.
InvalidParameterValue.ClassicLb	A classic CLB should be specified.
InvalidParameterValue.ForwardLb	A CLB should be specified.

InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidClbRegion	The regions specified for CLB is invalid.
LimitExceeded.AfterAttachLbLimitExceeded	Binding with the specified CLBs will make the total number of bound CLBs exceeds the upper limit.
MissingParameter.InScenario	A parameter is missing in a specific scenario.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.ClassicLoadBalancerNotFound	
ResourceNotFound.ListenerNotFound	The specified listener does not exist.
ResourceNotFound.LoadBalancerNotFound	The specified load balancer was not found.
ResourceNotFound.LoadBalancerNotInAutoScalingGroup	The specified CLB does not exist in the current scaling group.
ResourceNotFound.LocationNotFound	The specified location does not exist.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.LbBackendRegionInconsistent	The backend region of the CLB is not the same as the one for AS service.
ResourceUnavailable.LbProjectInconsistent	The CLBs are not in the same project.
ResourceUnavailable.LbVpcInconsistent	The CLB and scaling group should reside in the same VPC.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

AttachLoadBalancers

最近更新时间：2025-07-23 15:50:50

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to add CLBs to a security group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for the AttachLoadBalancers action.
Version	Yes	String	Common Params . The value used for the API version.
Region	Yes	String	Common Params . For more information, see list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain the scaling group ID from the console (https://console.intl.cloud.tencent.com), or calling the api DescribeAutoScalingGroups (https://intl.cloud.tencent.com/document/product/371/26171), and retrieve AutoScalingGroupId from the returned information.

LoadBalancerIds.N	No	Array of String	Specifies a list of classic clb ids. each can bind a maximum of 20 classic clbs. either LoadBalancerIds or ForwardLoadBalancerIds specified at the same time. can be obtained by DescribeLoadBalancers api.
ForwardLoadBalancerIds.N	No	Array of ForwardLoadBalancer	Specifies the list of load balancers. each can bind a maximum of 100 application load balancers. either LoadBalancerIds or ForwardLoadBalancerIds specified at the same time. can be obtained by DescribeLoadBalancers api.

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Adding the classic CLB `lb-crhgatrf` to the security group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: AttachLoadBalancers
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "LoadBalancerIds": [
    "lb-crhgatrf"
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-67izy66g",
    "RequestId": "bd3c91e8-3051-4c02-ac58-54d47b9c9d63"
  }
}
```

Example2 Adding the application CLB `1b-23aejgcv` (listener: `lbl-ncw704sn`, forwarding rule ID: `loc-l3hmaev9`) to the scaling group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: AttachLoadBalancers
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "ForwardLoadBalancers": [
    {
      "TargetAttributes": [
        {
          "Port": "8080",
          "Weight": "10"
        }
      ],
      "Region": "ap-guangzhou",
      "LocationId": "loc-l3hmaev9",
      "ListenerId": "lbl-ncw704sn",
      "LoadBalancerId": "1b-23aejgcv"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-9asddelc",
    "RequestId": "8d78668d-61eb-456d-855b-f34f91371089"
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalError.CallLbError	CLB API call failed.
InternalError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.InScenario	The parameter is invalid in a specific scenario.

InvalidParameter.MustOneParameter	A parameter is missing. One of the two parameters must be specified.
InvalidParameterValue.ClassicLb	A classic CLB should be specified.
InvalidParameterValue.DuplicatedForwardLb	Duplicate CLB instances
InvalidParameterValue.ForwardLb	A CLB should be specified.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidClbRegion	The regions specified for CLB is invalid.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.ListenerTargetTypeNotSupported	Target group listeners are not supported.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.TargetPortDuplicated	The backend port of the CLB layer-4 listener already exists.
LimitExceeded.AfterAttachLbLimitExceeded	Binding with the specified CLBs will make the total number of bound CLBs exceeds the upper limit.
MissingParameter.InScenario	A parameter is missing in a specific scenario.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.ListenerNotFound	The specified listener does not exist.
ResourceNotFound.LoadBalancerNotFound	The specified load balancer was not found.
ResourceNotFound.LocationNotFound	The specified location does not exist.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.LbBackendRegionInconsistent	The backend region of the CLB is not the same as the one for AS service.
ResourceUnavailable.LbProjectInconsistent	The CLBs are not in the same project.
ResourceUnavailable.LbVpcInconsistent	The CLB and scaling group should reside in the same VPC.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

DescribeAutoScalingActivities

最近更新时间：2025-07-23 15:50:48

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DescribeAutoScalingActivities) is used to query the activity history of an auto scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAutoScalingActivities.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ActivityIds.N	No	Array of String	Queries by one or more scaling activity IDs in the format of <code>asa-5l2ejpfo</code> . The maximum quantity per request is 100. This parameter does not support specifying both <code>ActivityIds</code> and <code>Filters</code> at the same time.
Filters.N	No	Array of Filter	Filter criteria. the filter field value ranges from...to. <code>auto-scaling-group-id</code>

- Filter by [scaling group id]. you can log IN to the [console](#) or call the api [DescribeAutoScalingGroups](#) to obtain the scaling group id from the returned information.
- type: String
- required: no
- example value: asg-kiju7yt5
- **activity-status-code**
 - filter by [scaling activity status]
 - type: String
 - required: no
 - options:
 - INIT: initializing
 - RUNNING: RUNNING
 - SUCCESSFUL: SUCCESSFUL activity
 - PARTIALLY_SUCCESSFUL: PARTIALLY SUCCESSFUL activity
 - FAILED: activity FAILED
 - CANCELLED: activity CANCELLED
- **activity-type**
 - filter by [scaling activity type]
 - type: String
 - required: no
 - options:
 - SCALE_OUT: SCALE-OUT activity
 - SCALE_IN: SCALE-IN activity
 - ATTACH_INSTANCES: adding INSTANCES
 - REMOVE_INSTANCES: terminating INSTANCES
 - DETACH_INSTANCES: REMOVE INSTANCE
 - TERMINATE_INSTANCES_UNEXPECTEDLY: TERMINATE INSTANCE IN CVM console
 - REPLACE_UNHEALTHY_INSTANCE: REPLACE UNHEALTHY INSTANCES
 - START_INSTANCES: START INSTANCES
 - STOP_INSTANCES: shut down INSTANCE
 - INVOKE_COMMAND: execute COMMAND
- **activity-id**
 - filter by [scaling activity id]. you can log IN to the [console](#) to obtain the scaling activity id.
 - type: String
 - required: no
 - example value: asa-hy6tr4ed

The maximum number of `Filters` per request is 10. the

			upper limit for <code>Filter.Values</code> is 5. parameters must not specify both <code>ActivityIds</code> and <code>Filters</code> simultaneously.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , see the relevant section in the API overview .
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API overview .
StartTime	No	Timestamp ISO8601	The earliest start time of the scaling activity, which will be ignored if ActivityIds is specified. The value is in <code>UTC time</code> in the format of <code>YYYY-MM-DDThh:mm:ssZ</code> according to the <code>ISO8601</code> standard.
EndTime	No	Timestamp ISO8601	The latest end time of the scaling activity, which will be ignored if ActivityIds is specified. The value is in <code>UTC time</code> in the format of <code>YYYY-MM-DDThh:mm:ssZ</code> according to the <code>ISO8601</code> standard.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible scaling activities.
ActivitySet	Array of Activity	Information set of eligible scaling activities.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Viewing the List of Scaling Activities by Using Filters

Input Example


```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAutoScalingActivities
<Common request parameters>
```

```
{
  "Filters": [
    {
      "Values": [
        "asa-o4v87ae9"
      ],
      "Name": "activity-id"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ActivitySet": [
      {
        "Description": "Activity was launched in response to a difference between desired capacity and actual capacity, scale out 1 instance(s).",
        "AutoScalingGroupId": "asg-2umy3jbd",
        "RelatedInstanceSet": [
          {
            "InstanceId": "ins-q3ss14yo",
            "InstanceStatus": "SUCCESSFUL"
          }
        ],
        "LifecycleActionResultSet": [],
        "DetailedStatusMessageSet": [],
        "ActivityType": "SCALE_OUT",
        "ActivityId": "asa-o4v87ae9",
        "StartTime": "2018-11-20T08:33:56Z",
        "CreatedTime": "2018-11-20T08:33:56Z",
        "EndTime": "2018-11-20T08:34:52Z",
        "Cause": "Activity was launched in response to a difference between desired capacity and actual capacity.",
        "StatusMessageSimplified": "Success",
        "StatusMessage": "Success",
        "StatusCode": "SUCCESSFUL",

```

```
"InvocationResultSet": []
}
],
"RequestId": "1082ab5d-c985-4d8c-bb9d-0d05e282b4a7"
}
}
```

Example2 Querying the List of Scaling Activities by Scaling Activity ID

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAutoScalingActivities
<Common request parameters>

{
  "ActivityIds": [
    "asa-o4v87ae9"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ActivitySet": [
      {
        "Description": "Activity was launched in response to a difference between desired capacity and actual capacity, scale out 1 instance(s).",
        "AutoScalingGroupId": "asg-2umy3jbd",
        "RelatedInstanceSet": [
          {
            "InstanceId": "ins-q3ss14yo",
            "InstanceStatus": "SUCCESSFUL"
          }
        ],
        "LifecycleActionResultSet": [],
        "DetailedStatusMessageSet": [],
        "ActivityType": "SCALE_OUT",
        "ActivityId": "asa-o4v87ae9",
        "StartTime": "2018-11-20T08:33:56Z",
        "CreatedTime": "2018-11-20T08:33:56Z",

```

```
"EndTime": "2018-11-20T08:34:52Z",
"Cause": "Activity was launched in response to a difference between desired capacity and actual capacity.",
"StatusMessageSimplified": "Success",
"StatusMessage": "Success",
"StatusCode": "SUCCESSFUL",
"InvocationResultSet": []
},
],
"RequestId": "1082ab5d-c985-4d8c-bb9d-0d05e282b4a7"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.

InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameterValue.Filter	Invalid filter.
InvalidParameterValue.InvalidActivityId	Invalid scaling activity ID.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidFilter	Invalid filter condition.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
LimitExceeded.FilterValuesTooLong	Too many values for the specified filter

DescribeAutoScalingGroupLastActivities

最近更新时间：2025-07-23 15:50:47

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to query the latest activity history of an auto scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAutoScalingGroupLastActivities.
Version	Yes	String	Common Params . The value used for this API: 2018-19.
Region	Yes	String	Common Params . For more information, please see list of regions supported by the product.
AutoScalingGroupIds.N	Yes	Array of String	Auto scaling group ID list. obtain the scaling group ID logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/) or calling the api DescribeAutoScalingGroups (https://intl.cloud.tencent.com/document/api/377/2018-19) from_cn_redirect=1) and retrieving AutoScalingGroup from the returned information.

ExcludeCancelledActivity	No	Boolean	Excludes cancelled type activities when querying. Default value is false, which means cancelled type activities are not excluded.
--------------------------	----	---------	---

3. Output Parameters

Parameter Name	Type	Description
ActivitySet	Array of Activity	Information set of eligible scaling activities. Scaling groups without scaling activities are not returned. For example, if there are 50 auto scaling group IDs but only 45 records are returned, it indicates that 5 of the auto scaling groups do not have scaling activities.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the List of the Latest Scaling Activities for a Scaling Group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAutoScalingGroupLastActivities
<Common request parameters>

{
  "AutoScalingGroupIds": [
    "asg-2umy3jbd"
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivitySet": [
```

```
{
  "Description": "Activity was launched in response to a difference between desired capacity and actual capacity, scale out 1 instance(s).",
  "AutoScalingGroupId": "asg-2umy3jbd",
  "LifecycleActionResultSet": [],
  "RelatedInstanceSet": [
    {
      "InstanceId": "ins-q3ss14yo",
      "InstanceStatus": "SUCCESSFUL"
    }
  ],
  "DetailedStatusMessageSet": [],
  "ActivityType": "SCALE_OUT",
  "ActivityId": "asa-o4v87ae9",
  "StartTime": "2018-11-20T08:33:56Z",
  "CreatedTime": "2018-11-20T08:33:56Z",
  "EndTime": "2018-11-20T08:34:52Z",
  "Cause": "Activity was launched in response to a difference between desired capacity and actual capacity.",
  "StatusMessageSimplified": "Success",
  "StatusMessage": "Success",
  "StatusCode": "SUCCESSFUL",
  "InvocationResultSet": []
}
],
"RequestId": "1082ab5d-c985-4d8c-bb9d-0d05e282b4a7"
}
```

5. Developer Resources

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.NoResourcePermission	No resource permission.

DeleteAutoScalingGroup

最近更新时间：2025-07-23 15:50:49

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to delete an auto-scaling group. Make sure that there are no `IN_SERVICE` instances in the group, and there are no ongoing scaling activities. When you delete a scaling group, instances in the status of `CREATION_FAILED` , `TERMINATION_FAILED` and `DETACH_FAILED` are not terminated.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteAutoScalingGroup.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain the scaling group ID by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/group) or calling the api DescribeAutoScalingGroups (https://intl.cloud.tencent.com/document/api/377/20438?

from_cn_redirect=1), and retrieve AutoScalingGroupId from the returned information.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting the specified scaling group

This example shows you how to delete the scaling group asg-nvnlpbb8.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteAutoScalingGroup
<Common Request Parameters>

{
  "AutoScalingGroupId": "asg-nvnlpbb8"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "b12066f8-1a4d-4a08-a0e0-d4b8a7f88568"
  }
}
```

5. Developer Resources

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InternalServerError.CallError	The internal API call failed.
InternalServerError.CallMonitorError	Monitor API call failed.
InternalServerError.CallTagError	The tag API call failed.
InternalServerError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
ResourceInUse.ActivityInProgress	The auto scaling group is performing a scaling activity.
ResourceInUse.InstanceInGroup	There are still normal instances in the auto scaling

	group.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.

ModifyAutoScalingGroup

最近更新时间：2025-07-23 15:50:44

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (ModifyAutoScalingGroup) is used to modify an auto scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . T ModifyAutoScalingC
Version	Yes	String	Common Params . T 19.
Region	Yes	String	Common Params . F list of regions supp
AutoScalingGroupId	Yes	String	Scaling group ID. ol following ways:. - Query the scaling console. . - Specifies the sca api DescribeAutoSc AutoScalingGroupId

			.
AutoScalingGroupName	No	String	Auto scaling group numbers, underscore with a maximum length under your account
DefaultCooldown	No	Integer	Default cooldown period to 3600. default value
DesiredCapacity	No	Integer	Expected number of 2000. to meet maximum expected value, expected minimum value.
LaunchConfigurationId	No	String	Launch configuration IDs in - Queries the launch configuration in the console. - Specifies the launch configuration ID when calling the DescribeLaunchConfigurations API to retrieve the launch configuration information.
MaxSize	No	Integer	Maximum number of 2000. to meet maximum expected value, expected minimum value.
MinSize	No	Integer	Minimum number of 0. to meet maximum value, expected minimum value.
ProjectId	No	Integer	Project ID. obtain the Project ID by calling the DescribeProjects API. If the default value is 0, it represents the default project.
SubnetIds.N	No	Array of String	Subnet ID list. you can obtain the Subnet ID by logging in to the console or calling the DescribeSubnets API.
TerminationPolicies.N	No	Array of String	Termination policy, Valid values include

			NEWEST_INSTANCE • OLDEST_INSTANCE: The scaling group first creates the instance with the specified VPC ID. • NEWEST_INSTANCE: The scaling group first creates the instance with the specified VPC ID.
VpcId	No	String	vpc ID. when modify SubnetIds parameter VpcId can be queried (https://console.intl.cloud.tencent.com/vpc) obtained from the VPC console or by calling the DescribeVpcs API (https://intl.cloud.tencent.com/document/api/213/228/zh-CN-1) from_cn_redirect=1)
Zones.N	No	Array of String	List of availability zones
RetryPolicy	No	String	Retry policy, whose value can be IMMEDIATE_RETRY or NO_RETRY, with the default value IMMEDIATE_RETRY. IMMEDIATE_RETRY is considered a failure and NO_RETRY is considered a success. • IMMEDIATE_RETRY: The scaling group immediately retries the instance after a certain number of retries. • INCREMENTAL_RETRY: The scaling group retries the instance in intervals. As the number of retries increases, the retry interval increases, ranging from seconds to minutes. • NO_RETRY: The scaling group does not retry the instance after a failure. The call or alarm information is returned.
ZonesCheckPolicy	No	String	AZ verification policy. The value can be ANY or ALL, with the default value ANY. The policy takes effect when the related fields in the configuration are set to true. • ALL: Verification is required for all AZs. If any AZ is unavailable, the scaling group is in an error state. • ANY: Verification is required for at least one AZ. If any AZ is unavailable, the scaling group is in an error state. Common reasons for the CVM InstanceType error:

			cloud disk in the AZ the AZ, and insuffic If there is no AZ or verification error wi of ZonesCheckPolic
ServiceSettings	No	ServiceSettings	Service settings suc
Ipv6AddressCount	No	Integer	The number of IPv6 values: 0 and 1. defi instance does not a network that suppo subnet. for usage re
MultiZoneSubnetPolicy	No	String	Multi-AZ/multi-sub PRIORITY and EQU, PRIORITY. • PRIORITY: Instar taking the order of the highest-priority successfully, instan AZ/subnet. • EQUALITY: The i will be distributed a a relatively balance AZ/subnet after sca Points to consider r • When the scaling this policy applies t group is based on a the multi-subnet, in considered. For exa A, B, C, and D, whe AZ 2, the subnets A sorting without rega • This policy applie not to the Instance1 configuration, which policy. • When instances PRIORITY policy, er first, followed by th example, with mode attempts will be ma

			and B3. If A1 is solo B1).
HealthCheckType	No	String	Scaling group instance values include: - CVM: Determined based on its network is indicated by an error unreachable via ping be found in Instance - CLB: Determined based on the health behind CLB health check
LoadBalancerHealthCheckGracePeriod	No	Integer	Grace period of the
InstanceAllocationPolicy	No	String	Instance assignment LAUNCH_CONFIGURE - LAUNCH_CONFIGURE mode of assigning instance configuration. - SPOT_MIXED: Random. Currently, this mode configuration is set In the mixed mode, as-you-go models predefined settings. billing type of the instance be modified.
SpotMixedAllocationPolicy	No	SpotMixedAllocationPolicy	Specifies how to assign spot instances. This parameter is valid <code>InstanceAllocationPolicy</code> <code>SPOT_MIXED</code> .
CapacityRebalance	No	Boolean	Capacity rebalancing spot instances with TRUE: Enable the scaling group are all the spot instance selection termination process configured scale-in termination. After the asynchronously initiate expected number of

			FALSE: Disable t instance to be term number of instance:
InstanceNameIndexSettings	No	InstanceNameIndexSettings	Instance name sequ incremental numeric names of instances scaling group.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying the VPC subnet information of a scaling group

This example shows you how to modify the `VpcId` and `SubnetIds` of the specific scaling group.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyAutoScalingGroup
<Common request parameters>

{
  "AutoScalingGroupId": "asg-ka0s0q80",
  "SubnetIds": [
    "subnet-b0vxjhot",
    "subnet-3tmerl37"
  ],
  "VpcId": "vpc-hy436tmc"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c503ddc6-496c-44c9-8cec-e9f1c3f9c11c"
  }
}
```

Example2 Modifying the desired, maximum, and minimum capacity of a scaling group

This example shows you how to modify the desired capacity of a scaling group to 3, the maximum capacity to 10, and the minimum capacity to 1.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyAutoScalingGroup
<Common request parameters>

{
  "AutoScalingGroupId": "asg-ka0s0q80",
  "MinSize": 1,
  "MaxSize": 10,
  "DesiredCapacity": 3
}
```

Output Example

```
{
  "Response": {
    "RequestId": "b41d8d30-21d4-412c-b7f3-53041879968c"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.CallVpcError	VPC API call failed.
InternalError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.InScenario	The parameter is invalid in a specific scenario.
InvalidParameterValue.AssertDesiredCapacityFailed	The declared original expected instance number does not match the actual original expected instance number.
InvalidParameterValue.BaseCapacityTooLarge	The specified base capacity cannot exceed the max capacity.
InvalidParameterValue.CvmError	Exception with CVM parameter validation.
InvalidParameterValue.DuplicatedSubnet	Duplicated subnet.
InvalidParameterValue.GroupNameDuplicated	The auto scaling group name already exists.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.

InvalidParameterValue.InvalidLaunchConfigurationId	Invalid launch configuration ID.
InvalidParameterValue.InvalidSubnetId	Invalid subnet ID.
InvalidParameterValue.LaunchConfigurationNotFound	The specified launch configuration was not found.
InvalidParameterValue.LbProjectInconsistent	The load balancer is in a different project.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.OnlyVpc	The account only supports VPCs.
InvalidParameterValue.ProjectIdNotFound	The project ID does not exist.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.Size	The value of maximum, minimum, or desired number of instances in the auto scaling group is invalid.
InvalidParameterValue.SubnetIds	The subnet information is invalid.
InvalidParameterValue.SubnetNotInDedicatedCluster	The subnet is not in the designated local dedicated cluster.
InvalidParameterValue.TooLong	Too many values.
LimitExceeded	The quota limit is exceeded.
LimitExceeded.MaxSizeLimitExceeded	The maximum number of instances exceeds the limit.
LimitExceeded.MinSizeLimitExceeded	The minimum number of instances is below the limit.
MissingParameter	Parameter missing.
MissingParameter.InScenario	A parameter is missing in a specific scenario.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceUnavailable.ForbiddenModifyVpc	You cannot modify the VPC of a scaling group bound with a load balancer.
ResourceUnavailable.LaunchConfigurationStatusAbnormal	The launch configuration is exceptional.

ResourceUnavailable.ProjectInconsistent

Project inconsistency.

DescribeAutoScalingInstances

最近更新时间：2025-07-23 15:50:46

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DescribeAutoScalingInstances) is used to query the information of instances associated with AS.

- You can query the details of instances based on information such as instance ID and auto scaling group ID. For more information on filters, see `Filter`.
- If the parameter is empty, a certain number (specified by `Limit` and 20 by default) of instances of the current user will be returned.

A maximum of 60 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAutoScalingInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceIds.N	No	Array of	IDs of the CVM instances to query. the instance ID list has a length limit of 100. <code>InstanceIds</code> and <code>Filters</code> cannot

		String	be specified simultaneously. You can get available instance ids in the following ways: - Query instance ID by logging in to the console. . - Get the instance ID by calling the api DescribeInstances and retrieving the <code>InstanceId</code> from the returned information. .
Filters.N	No	Array of Filter	Filter criteria <code>instance-id</code> – String – required: no – (filter condition) filter by instance id. get the instance id by logging in to the console or making an api call to DescribeInstances, and retrieve the <code>InstanceId</code> from the returned information. . <code>auto-scaling-group-id</code> – String – required: no – (filter) filter by auto scaling group id. you can obtain the scaling group id by logging in to the console or making an api call to DescribeAutoScalingGroups and retrieving the <code>AutoScalingGroupId</code> from the returned information. . The maximum number of <code>Filters</code> per request is 10, and the maximum number of <code>Filter.Values</code> is 5. parameters do not support specifying both <code>InstanceIds</code> and <code>Filters</code> .
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API overview .
Limit	No	Integer	The number of returned results. Default value: <code>20</code> . Maximum value: <code>100</code> . For more information on <code>Limit</code> , see the relevant sections in API Introduction .

3. Output Parameters

Parameter Name	Type	Description
AutoScalingInstanceSet	Array of Instance	List of instance details.
TotalCount	Integer	Number of eligible instances.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for

		other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
--	--	---

4. Example

Example1 Viewing Instances

This example shows you how to query information of the instance based on the specified instance ID or filter criteria.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAutoScalingInstances
<Common request parameters>

{
  "InstanceIds": [
    "ins-1fswxz1m"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "AutoScalingInstanceSet": [
      {
        "ProtectedFromScaleIn": false,
        "Zone": "ap-guangzhou-3",
        "LaunchConfigurationId": "asc-5fzsm72a",
        "InstanceId": "ins-1fswxz1m",
        "VersionNumber": 1,
        "DisasterRecoverGroupIds": [],
        "AddTime": "2018-08-21T12:05:12Z",
        "CreationType": "AUTO_CREATION",
        "AutoScalingGroupName": "asgname",
        "AutoScalingGroupId": "asg-4o61gsxi",
        "HealthStatus": "HEALTHY",
        "LifecycleState": "IN_SERVICE",
        "LaunchConfigurationName": "Series 2 local disk",
```

```
"InstanceType": "S2.SMALL2",
"WarmupStatus": "IN_WARMUP"
},
"RequestId": "2ae3e836-d47a-431c-b54b-4e1c2f419e5b"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameterValue.Filter	Invalid filter.

InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidFilter	Invalid filter condition.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
LimitExceeded.FilterValuesTooLong	Too many values for the specified filter

DescribeAutoScalingGroups

最近更新时间：2025-07-23 15:50:47

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DescribeAutoScalingGroups) is used to query the information of auto scaling groups.

- You can query the details of auto scaling groups based on information such as auto scaling group ID, auto scaling group name, or launch configuration ID. For more information on filters, see `Filter`.
- If the parameter is empty, a certain number (specified by `Limit` and 20 by default) of auto scaling groups of the current user will be returned.

A maximum of 60 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAutoScalingGroups.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the of regions supported by the product.
AutoScalingGroupIds.N	No	Array of	Queries by one or more auto scaling group IDs in the format of <code>asg-nkdwoui0</code> . The maximum quantity per

		String	request is 100. This parameter does not support specify both <code>AutoScalingGroupIds</code> and <code>Filters</code> at the same time.
Filters.N	No	Array of Filter	Filter criteria • <code>auto-scaling-group-id</code> – String – required: no – (filter by auto scaling group id. • Specifies the scaling group ID obtained by logging in to the console or calling the api DescribeAutoScalingGroups and retrieving the <code>AutoScalingGroupId</code> from the return information. • <code>auto-scaling-group-name</code> – String – required: no – (filter) filter by auto scaling group name. • <code>vague-auto-scaling-group-name</code> – String – required: no – (filter) filter by scaling group name fuzzy search. • <code>launch-configuration-id</code> – String – required: no – (filter condition) filter by launch configuration id. you can obtain the launch configuration id by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/console) or calling the api DescribeLaunchConfigurations (https://intl.cloud.tencent.com/document/api/377/2044/from_cn_redirect=1) and retrieving the <code>LaunchConfigurationId</code> from the returned information. • <code>tag-key</code> – String – optional – filter by the tag key you can call the API GetTags to obtain the tag key from the returned information. • <code>tag-value</code> – String – required: no – (filter condition) filter by tag value. you can obtain the tag value by calling the API GetTags and retrieving the <code>TagValue</code> from the returned information. • <code>tag:tag-key</code> – String – required: no – (filter condition) filter by tag key-value pair. replace tag-key with a specific tag key. see example 2 for reference. call the API GetTags to obtain the <code>TagKey</code> from the returned information. The maximum number of <code>Filters</code> per request is 10, and that of <code>Filter.Values</code> is 5. the

			<code>AutoScalingGroupIds</code> and <code>Filters</code> parameters cannot be specified simultaneously.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , see the relevant section in the API overview .
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API overview .

3. Output Parameters

Parameter Name	Type	Description
AutoScalingGroupSet	Array of AutoScalingGroup	List of auto scaling group details.
TotalCount	Integer	Number of eligible auto scaling groups.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying Scaling Groups

This example shows you how to query scaling groups by ID.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAutoScalingGroups
<Common request parameters>

{
  "AutoScalingGroupIds": [
    "asg-pts6qcgp"
  ]
}
```

Output Example

```
{
  "Response": {
    "AutoScalingGroupSet": [
      {
        "InActivityStatus": "NOT_IN_ACTIVITY",
        "LoadBalancerIdSet": [],
        "InstanceNameIndexSettings": {
          "BeginIndex": 0,
          "Enabled": true
        },
        "RetryPolicy": "IMMEDIATE_RETRY",
        "InServiceInstanceCount": 0,
        "CreatedTime": "2022-04-21T03:21:14Z",
        "SpotMixedAllocationPolicy": {
          "CompensateWithBaseInstance": null,
          "SpotAllocationStrategy": null,
          "OnDemandPercentageAboveBaseCapacity": null,
          "BaseCapacity": null
        },
        "VpcId": "vpc-lceuvai4",
        "InstanceAllocationPolicy": "LAUNCH_CONFIGURATION",
        "Tags": [],
        "LaunchConfigurationId": "asc-mo1woym9",
        "MaxSize": 1,
        "MultiZoneSubnetPolicy": "PRIORITY",
        "SubnetIdSet": [
          "subnet-6qqolfi7"
        ],
        "HealthCheckType": "CLB",
        "LoadBalancerHealthCheckGracePeriod": 0,
        "ForwardLoadBalancerSet": [
          {
            "TargetAttributes": [
              {
                "Port": 8080,
                "Weight": 10
              }
            ]
          }
        ],
        "Region": "ap-shanghai",
        "LocationId": "loc-5dovrfov",
        "ListenerId": "lbl-i4p05pmv",
        "LoadBalancerId": "lb-pbx8nq2p"
      }
    ]
  }
}
```

```
],
"ProjectId": 0,
"AutoScalingGroupName": "product-asg-001",
"MinSize": 0,
"ServiceSettings": {
  "ReplaceMonitorUnhealthy": false,
  "ReplaceLoadBalancerUnhealthy": false,
  "ScalingMode": "CLASSIC_SCALING",
  "DesiredCapacitySyncWithMaxMinSize": false,
  "ReplaceMode": "RECREATE"
},
"LaunchConfigurationName": "product-asc-001",
"CapacityRebalance": false,
"TerminationPolicySet": [
  "OLDEST_INSTANCE"
],
"AutoScalingGroupStatus": "NORMAL",
"InstanceCount": 0,
"DesiredCapacity": 0,
"AutoScalingGroupId": "asg-pts6qcgp",
"Ipv6AddressCount": 0,
"DefaultCooldown": 300,
"EnabledStatus": "ENABLED",
"ZoneSet": []
}
],
"TotalCount": 1,
"RequestId": "53a76c96-a88c-4972-8488-66d6c15a080f"
}
```

Example2 Querying Scaling Groups Bound with Tags

This example shows you how to query scaling groups bound with the tag key-value pair (city:shenzhen).

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAutoScalingGroups
<Common request parameters>

{
  "Limit": 1,
  "Filters": [
```



```
{
  "Values": [
    "shenzhen"
  ],
  "Name": "tag:city"
}
],
"Offset": 0
}
```

Output Example

```
{
  "Response": {
    "AutoScalingGroupSet": [
      {
        "InActivityStatus": "NOT_IN_ACTIVITY",
        "LoadBalancerIdSet": [],
        "InstanceNameIndexSettings": {
          "BeginIndex": 0,
          "Enabled": true
        },
        "RetryPolicy": "IMMEDIATE_RETRY",
        "InServiceInstanceCount": 0,
        "CreatedTime": "2019-10-29T02:21:26Z",
        "SpotMixedAllocationPolicy": {
          "CompensateWithBaseInstance": null,
          "SpotAllocationStrategy": null,
          "OnDemandPercentageAboveBaseCapacity": null,
          "BaseCapacity": null
        },
        "VpcId": "vpc-qmjqjnk",
        "InstanceAllocationPolicy": "LAUNCH_CONFIGURATION",
        "Tags": [
          {
            "Key": "city",
            "ResourceType": "auto-scaling-group",
            "Value": "shenzhen"
          }
        ],
        "LaunchConfigurationId": "asc-3d9e2zfx",
        "MaxSize": 10,
        "MultiZoneSubnetPolicy": "PRIORITY",
        "SubnetIdSet": [
          "subnet-3cpb9yfp",
          "subnet-c98udmmr",

```

```
"subnet-1xsr551x",
"subnet-o3ibshdr",
"subnet-6c7q2jhz"
],
"HealthCheckType": "CVM",
"LoadBalancerHealthCheckGracePeriod": 0,
"ForwardLoadBalancerSet": [
{
"TargetAttributes": [
{
"Port": 8080,
"Weight": 10
}
],
"Region": "ap-shanghai",
"LocationId": "loc-y6t5rew2",
"ListenerId": "lbl-aiwdu9bd",
"LoadBalancerId": "lb-k264wzwj"
},
{
"TargetAttributes": [
{
"Port": 80,
"Weight": 10
}
],
"Region": "ap-shanghai",
"LocationId": "loc-qmxmx085",
"ListenerId": "lbl-ldjbrn65",
"LoadBalancerId": "lb-k264wzwj"
}
],
"ProjectId": 0,
"AutoScalingGroupName": "sz-asg",
"MinSize": 0,
"ServiceSettings": {
"ReplaceMonitorUnhealthy": false,
"ReplaceLoadBalancerUnhealthy": false,
"ReplaceMode": "RECREATE",
"DesiredCapacitySyncWithMaxMinSize": false,
"ScalingMode": "CLASSIC_SCALING"
},
"LaunchConfigurationName": "sz-asc",
"CapacityRebalance": false,
"TerminationPolicySet": [
"OLDEST_INSTANCE"
],

```

```
"AutoScalingGroupStatus": "NORMAL",
"InstanceCount": 0,
"DesiredCapacity": 0,
"AutoScalingGroupId": "asg-h71x7a3f",
"Ipv6AddressCount": 0,
"DefaultCooldown": 300,
"EnabledStatus": "ENABLED",
"ZoneSet": []
},
"TotalCount": 1,
"RequestId": "53a76c96-a88c-4972-8488-66d6c15a080f"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description

InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameterConflict	The two parameters specified conflict and cannot co-exist.
InvalidParameterValue.Filter	Invalid filter.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidFilter	Invalid filter condition.
InvalidParameterValue.InvalidLaunchConfigurationId	Invalid launch configuration ID.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.TooLong	Too many values.
InvalidPermission	The account does not support this operation.
LimitExceeded.FilterValuesTooLong	Too many values for the specified filter
UnsupportedOperation	Unsupported operation.

CreateAutoScalingGroup

最近更新时间：2025-07-23 15:50:50

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (CreateAutoScalingGroup) is used to create an auto scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . T CreateAutoScalingC
Version	Yes	String	Common Params . T
Region	Yes	String	Common Params . F regions supported b
AutoScalingGroupName	Yes	String	Auto scaling group numbers, underscore a maximum length c account.
LaunchConfigurationId	Yes	String	Launch configuratic configuration ID by call to DescribeLau LaunchConfiguratio

MaxSize	Yes	Integer	Maximum instance MaxSize >= Desirec
MinSize	Yes	Integer	Minimum number of MaxSize >= Desirec
VpcId	Yes	String	vpc ID. a valid vpc I console (https://console.cloud.tencent.com/vpc) can also call the ap (https://intl.cloud.tencent.com/doc/api/elastic伸缩/2.0/en/DescribeVpcs) from_cn_redirect=1) api response.
DefaultCooldown	No	Integer	Default cooldown p range: [0,3600].
DesiredCapacity	No	Integer	The expected numb default value equals >= DesiredCapacity
LoadBalancerIds.N	No	Array of String	A list of classic loa length of 20. either ForwardLoadBalanc be obtained through
ProjectId	No	Integer	Project ID of the ins value is 0, indicates parameter by calling the return value.
ForwardLoadBalancers.N	No	Array of ForwardLoadBalancer	Specifies the list of length of 100. either ForwardLoadBalanc
SubnetIds.N	No	Array of String	The subnet ID list m multiple subnets are in order as priority i VPC subnet ids can (https://console.cloud.tencent.com/vpc) obtained from the S the DescribeSubnet (https://intl.cloud.tencent.com/doc/api/elastic伸缩/2.0/en/DescribeSubnets) from_cn_redirect=1)
TerminationPolicies.N	No	Array of String	Termination policy, values: OLDEST_IN value: OLDEST_INS

			• OLDEST_INSTANCE scaling group first. • NEWEST_INSTANCE scaling group first.
Zones.N	No	Array of String	List of availability zones specified in the basic zones are entered, in order in which they are used one until instances are created.
RetryPolicy	No	String	Retry policy. Valid values: IMMEDIATE_RETRY, INCREMENTAL_RETRY, NO_RETRY. • IMMEDIATE_RETRY: The alarm is considered a failed alarm and the alarm is reset to the initial state after a short period. There is no retry interval. • INCREMENTAL_RETRY: The number of consecutive retries is the same as the number of retries in the previous period. The subsequent retry interval gradually increases. The retry interval is 1 minute, 5 minutes, 15 minutes, 30 minutes, 60 minutes, 120 minutes, 180 minutes, 240 minutes, 300 minutes, 360 minutes, 420 minutes, 480 minutes, 540 minutes, 600 minutes, 660 minutes, 720 minutes, 780 minutes, 840 minutes, 900 minutes, 960 minutes, 1020 minutes, 1080 minutes, 1140 minutes, 1200 minutes, 1260 minutes, 1320 minutes, 1380 minutes, 1440 minutes, 1500 minutes, 1560 minutes, 1620 minutes, 1680 minutes, 1740 minutes, 1800 minutes, 1860 minutes, 1920 minutes, 1980 minutes, 2040 minutes, 2100 minutes, 2160 minutes, 2220 minutes, 2280 minutes, 2340 minutes, 2400 minutes, 2460 minutes, 2520 minutes, 2580 minutes, 2640 minutes, 2700 minutes, 2760 minutes, 2820 minutes, 2880 minutes, 2940 minutes, 3000 minutes, 3060 minutes, 3120 minutes, 3180 minutes, 3240 minutes, 3300 minutes, 3360 minutes, 3420 minutes, 3480 minutes, 3540 minutes, 3600 minutes, 3660 minutes, 3720 minutes, 3780 minutes, 3840 minutes, 3900 minutes, 3960 minutes, 4020 minutes, 4080 minutes, 4140 minutes, 4200 minutes, 4260 minutes, 4320 minutes, 4380 minutes, 4440 minutes, 4500 minutes, 4560 minutes, 4620 minutes, 4680 minutes, 4740 minutes, 4800 minutes, 4860 minutes, 4920 minutes, 4980 minutes, 5040 minutes, 5100 minutes, 5160 minutes, 5220 minutes, 5280 minutes, 5340 minutes, 5400 minutes, 5460 minutes, 5520 minutes, 5580 minutes, 5640 minutes, 5700 minutes, 5760 minutes, 5820 minutes, 5880 minutes, 5940 minutes, 6000 minutes, 6060 minutes, 6120 minutes, 6180 minutes, 6240 minutes, 6300 minutes, 6360 minutes, 6420 minutes, 6480 minutes, 6540 minutes, 6600 minutes, 6660 minutes, 6720 minutes, 6780 minutes, 6840 minutes, 6900 minutes, 6960 minutes, 7020 minutes, 7080 minutes, 7140 minutes, 7200 minutes, 7260 minutes, 7320 minutes, 7380 minutes, 7440 minutes, 7500 minutes, 7560 minutes, 7620 minutes, 7680 minutes, 7740 minutes, 7800 minutes, 7860 minutes, 7920 minutes, 7980 minutes, 8040 minutes, 8100 minutes, 8160 minutes, 8220 minutes, 8280 minutes, 8340 minutes, 8400 minutes, 8460 minutes, 8520 minutes, 8580 minutes, 8640 minutes, 8700 minutes, 8760 minutes, 8820 minutes, 8880 minutes, 8940 minutes, 9000 minutes, 9060 minutes, 9120 minutes, 9180 minutes, 9240 minutes, 9300 minutes, 9360 minutes, 9420 minutes, 9480 minutes, 9540 minutes, 9600 minutes, 9660 minutes, 9720 minutes, 9780 minutes, 9840 minutes, 9900 minutes, 9960 minutes, 10000 minutes. • NO_RETRY: The alarm information is not reset to the initial state after a short period.
ZonesCheckPolicy	No	String	AZ verification policy. Valid values: ANY, ALL, NONE. • ALL: Verification is performed on all AZs. If any AZ is unavailable, the alarm is triggered. • ANY: Verification is performed on all AZs. If any AZ is unavailable, the alarm is triggered. • NONE: Verification is not performed on any AZs. Common reasons for CVM InstanceType disk in the AZ being insufficient IP address. If there is no AZ or error will be reported ZonesCheckPolicy.
Tags.N	No	Array of Tag	List of Tag descriptors bind tags to a scaling group.

			instances. each sca call the GetTags AF based on the respoi
ServiceSettings	No	ServiceSettings	Service settings suc
Ipv6AddressCount	No	Integer	The number of IPv6 values: 0 and 1. defi does not allocate ar supports IPv6 and e usage restrictions, s
MultiZoneSubnetPolicy	No	String	Multi-AZ/multi-sub PRIORITY and EQU. PRIORITY. • PRIORITY: The ir taking the order of instances can be su AZ/subnet, they wil • EQUALITY: The i distributed across n balanced number of out. Points to consider r • When the scaling policy applies to the based on a VPC net subnet, in this case example, if there ar where A, B, and C a B, C, and D are con and 2. • This policy appli the InstanceTypes p which is selected ac • When instances policy, ensure the p the policy for the m A and B and subnet order of A1, A2, A3, be attempted (inste
HealthCheckType	No	String	Health check type f

			- CVM: Determine its network status. / an event where inst detailed criteria of j - CLB: Determine the health check sta health checks, see l If CLB is selected, t instance's network : If the instance's net be marked as UNHE is abnormal, the ins CLB_UNHEALTHY. will be marked as U value: CLB.
LoadBalancerHealthCheckGracePeriod	No	Integer	Grace period of the <code>IN_SERVICE</code> inst <code>CLB_UNHEALTHY</code> Valid range: 0–7200
InstanceAllocationPolicy	No	String	Instance assignmen LAUNCH_CONFIGU LAUNCH_CONFIGU - LAUNCH_CONFI mode of assigning i configuration. - SPOT_MIXED: Re this mode is suppor set to the pay-as-y the scaling group w spot models based mixed mode is usec configuration cannc
SpotMixedAllocationPolicy	No	SpotMixedAllocationPolicy	Specifies how to as instances. This parameter is v: <code>InstanceAlloca</code>
CapacityRebalance	No	Boolean	Capacity rebalancin instances within the TRUE: Enable th scaling group are al spot instance servic

			process of the spot hook, it will be trigger termination process scale-out to reach • FALSE: Disable to be terminated by instances expected Default value: FALSE
InstanceNameIndexSettings	No	InstanceNameIndexSettings	Instance name sequence specified, the default incremental numeric of instances automatically

3. Output Parameters

Parameter Name	Type	Description
AutoScalingGroupId	String	Auto scaling group ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a Scaling Group

This example shows you how to create a scaling group, set up a VPC network, and configure a layer-7 load balancer.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateAutoScalingGroup
<Common request parameters>
```

```
{
  "VpcId": "vpc-hy436tmc",
  "DesiredCapacity": 0,
  "LaunchConfigurationId": "asc-7vucy6ae",
  "ProjectId": 0,
  "SubnetIds": [
    "subnet-b0vxjhot",
    "subnet-3tmerl37"
  ],
  "AutoScalingGroupName": "asg-vpc-7layer-lb",
  "DefaultCooldown": 300,
  "MinSize": 0,
  "MaxSize": 10,
  "TerminationPolicies": [
    "OLDEST_INSTANCE"
  ],
  "ForwardLoadBalancers": [
    {
      "TargetAttributes": [
        {
          "Port": 8080,
          "Weight": 10
        }
      ]
    }
  ],
  "Region": "ap-guangzhou",
  "LocationId": "loc-l3hmaev9",
  "ListenerId": "lbl-ncw704sn",
  "LoadBalancerId": "lb-23aejgcv"
}
]
```

Output Example

```
{
  "Response": {
    "AutoScalingGroupId": "asg-nkdwoui0",
    "RequestId": "a5d66fed-85b9-4f43-8243-597337ba896e"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InternalServerError.CallLbError	CLB API call failed.
InternalServerError.CallTagError	The tag API call failed.
InternalServerError.CallTvpError	The TVPC API call failed.
InternalServerError.CallVpcError	VPC API call failed.
InternalServerError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.InScenario	The parameter is invalid in a specific scenario.
InvalidParameterValue.BaseCapacityTooLarge	The specified base capacity cannot exceed the max capacity.
InvalidParameterValue.ClassicLb	A classic CLB should be specified.

InvalidParameterValue.CvmError	Exception with CVM parameter validation.
InvalidParameterValue.DuplicatedForwardLb	Duplicate CLB instances
InvalidParameterValue.DuplicatedSubnet	Duplicated subnet.
InvalidParameterValue.ForwardLb	A CLB should be specified.
InvalidParameterValue.GroupNameDuplicated	The auto scaling group name already exists.
InvalidParameterValue.InvalidClbRegion	The regions specified for CLB is invalid.
InvalidParameterValue.InvalidLaunchConfigurationId	Invalid launch configuration ID.
InvalidParameterValue.InvalidSubnetId	Invalid subnet ID.
InvalidParameterValue.LaunchConfigurationNotFound	The specified launch configuration was not found.
InvalidParameterValue.LbProjectInconsistent	The load balancer is in a different project.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.ListenerTargetTypeNotSupported	Target group listeners are not supported.
InvalidParameterValue.OnlyVpc	The account only supports VPCs.
InvalidParameterValue.ProjectIdNotFound	The project ID does not exist.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.Size	The value of maximum, minimum, or desired number of instances in the auto scaling group is invalid.
InvalidParameterValue.SubnetIds	The subnet information is invalid.
InvalidParameterValue.SubnetNotInDedicatedCluster	The subnet is not in the designated local dedicated cluster.
InvalidParameterValue.TargetPortDuplicated	The backend port of the CLB layer-4 listener already exists.
InvalidParameterValue.TooLong	Too many values.
InvalidParameterValue.ZoneMismatchRegion	The specified availability zone is not in the region.

LimitExceeded	The quota limit is exceeded.
LimitExceeded.AutoScalingGroupLimitExceeded	The number of auto scaling groups exceeds the limit.
LimitExceeded.MaxSizeLimitExceeded	The maximum number of instances exceeds the limit.
LimitExceeded.MinSizeLimitExceeded	The minimum number of instances is below the limit.
MissingParameter.InScenario	A parameter is missing in a specific scenario.
ResourceNotFound.ListenerNotFound	The specified listener does not exist.
ResourceNotFound.LoadBalancerNotFound	The specified load balancer was not found.
ResourceNotFound.LocationNotFound	The specified location does not exist.
ResourceUnavailable.LaunchConfigurationStatusAbnormal	The launch configuration is exceptional.
ResourceUnavailable.LbBackendRegionInconsistent	The backend region of the CLB is not the same as the one for AS service.
ResourceUnavailable.LbVpcInconsistent	The CLB and scaling group should reside in the same VPC.
ResourceUnavailable.ProjectInconsistent	Project inconsistency.
ResourceUnavailable.ZoneUnavailable	The specified availability zone is unavailable.

ScaleOutInstances

最近更新时间：2025-07-23 15:50:42

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to add the specified number of instances to a scaling group. It returns the scaling activity ID `ActivityId`.

- Make sure that there are no ongoing scaling tasks.
- This API is valid even when the scaling group is disabled. For more details, see [DisableAutoScalingGroup](#).
- The total number of instances after this action cannot exceed the maximum capacity.
- If a scale-out action failed or partially succeeded, only the number of successfully created instances is added to the number of desired capacity.
- If the allocation policy is `SPOT_MIXED`, there may be multiple scaling activities triggered for one scaling task. In this case, the first activity ID (`ActivityId`) is returned.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ScaleOutInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.

Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID
ScaleOutNumber	Yes	Integer	Number of instances to be added

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 This example shows you how to add one instance to the scaling group

This example shows you how to add one instance to the scaling group asg-12yqet78.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ScaleOutInstances
<Common Request Parameters>

{
  "AutoScalingGroupId": "asg-12yqet78",
  "ScaleOutNumber": 1
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-k1q8oaz6",
```



```
"RequestId": "6af368fd-35ff-4dcc-b302-35c378f2cccb"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.Range	The value is outside the specified range.
LimitExceeded.DesiredCapacityLimitExceeded	The desired number of instances exceeds the limit.
ResourceInsufficient.AutoScalingGroupAboveMaxSize	The maximum number of instances in the auto scaling group is exceeded.

ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.

ScaleInstances

最近更新时间：2025-07-23 15:50:42

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to reduce the specified number of instances from the scaling group.

- There is no on going scaling task.
- This API is valid even when the scaling group is disabled. For more details, see [DisableAutoScalingGroup](#).
- You can specify the instances to remove in the scale-in activity by using `TerminationPolicies` . For more information, see [Scaling In Policies](#).
- Only the `IN_SERVICE` instances will be reduced. To reduce instances in other statues, use the `DetachInstances` or `RemoveInstances` API.
- The desired capacity will be reduced accordingly. The new desired capacity should be no less than the minimum capacity.
- If the scale-in activity failed or partially succeeded, the final desired capacity only deducts the instances that have been reduced successfully.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ScaleInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-04-

			19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupIid	Yes	String	Scaling group ID. obtain available scaling group ids in the following ways: - Query the scaling group ID by logging in to the console. . - Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupIid from the return information. .
ScaleInNumber	Yes	Integer	Number of resource instances to scale in. this parameter has a static value range of [1,2000] and must not be larger than the difference between the desired number and the minimum value. for example, if the scaling group desired number is 100 and the minimum value is 20, the permissible range is [1,80].

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 This example shows you how to reduce one instance from the scaling group.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
```

```
X-TC-Action: ScaleInInstances
&<Common request parameters>

{
  "AutoScalingGroupId": "asg-12yqet78",
  "ScaleInNumber": 1
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-n6w01f6m",
    "RequestId": "c0bb46ea-2b47-471c-9099-e20bf7a23078"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.Range	The value is outside the specified range.
MissingParameter	Parameter missing.
ResourceInsufficient.AutoScalingGroupBelowMinSize	The number of instances in the auto scaling group is below the minimum value.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.

DescribeAutoScalingAdvices

最近更新时间：2025-07-23 15:50:48

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to query suggestions for scaling group configurations.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAutoScalingAdvices.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupIds.N	Yes	Array of String	The scaling group list to be queried, with an upper limit of 100. obtain the scaling group ID by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/group) or calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the returned information.

3. Output Parameters

Parameter Name	Type	Description
AutoScalingAdviceSet	Array of AutoScalingAdvice	A collection of suggestions for scaling group configurations.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying configuration risks and suggestions for a scaling group

This example shows you how to query the configuration risks and suggestions for the scaling group asg-2pvrsyog.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAutoScalingAdvices
<Common Request Parameters>

{
  "AutoScalingGroupIds": [
    "asg-2pvrsyog"
  ]
}
```

Output Example

```
{
  "Response": {
    "AutoScalingAdviceSet": [
      {
        "AutoScalingGroupId": "asg-2pvrsyog",
        "Level": "WARNING",
        "Advices": [
```



```
{
  "Problem": "InvalidInstanceType",
  "Solution": "It is recommended to replace the invalid instance type.",
  "Detail": "Instance Type `S2.MEDIUM4` (`POSTPAID_BY_HOUR`) in `ap-guangzhou-1` is invalid.",
  "Level": "WARNING"
},
{
  "Problem": "InvalidInstanceType",
  "Solution": "It is recommended to replace the invalid instance type.",
  "Detail": "Instance Type `S2.MEDIUM4` (`POSTPAID_BY_HOUR`) in `ap-guangzhou-4` is invalid.",
  "Level": "WARNING"
}
]
},
"RequestId": "5f7c48b7-222b-4f13-ae5e-978716b49f1c"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.

Scaling Group Instances APIs

RemoveInstances

最近更新时间：2025-07-23 15:50:39

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to delete CVM instances from a scaling group. Instances that are automatically created through AS will be terminated, while those manually added to the scaling group will be removed and retained.

- If the number of remaining `IN_SERVICE` instances in the scaling group is less than the minimum capacity, this API will return an error.
- However, if the scaling group is in `DISABLED` status, the removal will not verify the relationship between the number of `IN_SERVICE` instances and the minimum capacity.
- This removal will unassociate the CVM from the CLB instance that has been configured for the scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: RemoveInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-04-

			19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain available scaling group ids in the following ways:. - Query the scaling group ID by logging in to the console. . - Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the return information. .
InstanceIds.N	Yes	Array of String	CVM instance ID list. you can obtain available instance ID in the following ways:. - Query instance ID by logging in to the console. . - Specifies the instance ID by calling the api DescribeInstances and getting <code>InstanceId</code> from the return information. .

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Removing instances from a scaling group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: RemoveInstances
<Common request parameters>

{
  "AutoScalingGroupId": "asg-boz1qhnk",
  "InstanceIds": [
    "ins-osckfnn7",
    "ins-cri8d02t"
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-dne04cyp",
    "RequestId": "5b039ee6-e8ff-4605-bb24-b45337747431"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
ResourceInsufficient.AutoScalingGroupBelowMinSize	The number of instances in the auto scaling group is below the minimum value.
ResourceInsufficient.InServiceInstanceBelowMinSize	The number of instances in a scaling group is less than the minimum capacity.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.InstancesNotInAutoScalingGroup	The target instance is not in the auto scaling group.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.InstanceInOperation	The specified instance is active.

DetachInstances

最近更新时间：2025-07-23 15:50:41

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to remove CVM instances from a scaling group. Instances removed via this API will not be terminated.

- If the number of remaining `IN_SERVICE` instances in the scaling group is less than the minimum capacity, this API will return an error.
- However, if the scaling group is in `DISABLED` status, the removal will not verify the relationship between the number of `IN_SERVICE` instances and the minimum capacity.
- This removal will unassociate the CVM from the CLB instance that has been configured for the scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DetachInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the

			list of regions supported by the product.
AutoScalingGroupIds	Yes	String	Auto scaling group ID. obtain available scaling group ids in the following ways: • Query the scaling group ID by logging in to the console. • Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupIds from the return information.
InstanceIds.N	Yes	Array of String	List of CVM instance ids. you can obtain available instance ids in the following ways: • Query instance ID by logging in to the console. • Specifies the instance ID by calling the api DescribeInstances and getting <code>InstanceId</code> from the return information.

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Removing instances from a scaling group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DetachInstances
```


<Common request parameters>

```
{
  "AutoScalingGroupId": "asg-boz1qhnk",
  "InstanceIds": [
    "ins-osckfnn7",
    "ins-cri8d02t"
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-bcfxy55",
    "RequestId": "5b039ee6-e8ff-4605-bb24-b45337747431"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
ResourceInsufficient.AutoScalingGroupBelowMinSize	The number of instances in the auto scaling group is below the minimum value.
ResourceInsufficient.InServiceInstanceBelowMinSize	The number of instances in a scaling group is less than the minimum capacity.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.InstancesNotInAutoScalingGroup	The target instance is not in the auto scaling group.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.InstanceInOperation	The specified instance is active.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

AttachInstances

最近更新时间：2025-07-23 15:50:41

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This interface (AttachInstances) is used to add CVM instances to a scaling group.

- Only CVM instances in `RUNNING` or `STOPPED` status can be added.
This API is used to ensure added CVM instances match the VPC network of the scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: AttachInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain available scaling group ids in the following ways: Query the scaling group ID by logging in to the console. .

			- Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the return information. .
InstanceIds.N	Yes	Array of String	CVM instance ID list. you can obtain available instance ID in the following ways:. - Query instance ID by logging in to the console. . - Get the instance ID by calling the api DescribeInstances and retrieving the <code>InstanceId</code> from the returned information. .

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Adding an instance to a scaling group

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: AttachInstances
<Common request parameters>

{
  "AutoScalingGroupId": "asg-boz1qhnk",
  "InstanceIds": [
    "ins-osckfnm7",
    "ins-cri8d02t"
```

```
]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-q59zikez",
    "RequestId": "5b039ee6-e8ff-4605-bb24-b45337747431"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalServerError	An internal error occurred.

InternalError.CalleeError	Exceptions occurred while invoking other services.
InternalError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
ResourceInsufficient.AutoScalingGroupAboveMaxSize	The maximum number of instances in the auto scaling group is exceeded.
ResourceInsufficient.InServiceInstanceAboveMaxSize	The number of instances in a scaling group is more than the maximum capacity.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.InstancesNotFound	The specified instance does not exist.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.CvmVpcInconsistent	The instance and the auto scaling group are in different VPCs.
ResourceUnavailable.InstanceCannotAttach	Unable to add the instance to the scaling group.
ResourceUnavailable.InstanceInOperation	The specified instance is active.
ResourceUnavailable.InstancesAlreadyInAutoScalingGroup	The instance already exists in the auto scaling group.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

SetInstancesProtection

最近更新时间：2025-07-23 15:50:39

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to enable scale-in protection for an instance.

When scale-in protection is enabled, the instance will not be removed in scale-in activities triggered by replacement of unhealthy instances, alarm threshold reached, change of desired quantity, etc.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: SetInstancesProtection.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupID	Yes	String	Auto scaling group ID. obtain available scaling group ids in the following ways:. - Query the scaling group ID by logging in to the console. .

			- Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupID from the return information. .
InstanceIds.N	Yes	Array of String	Instance ID. you can obtain available instance ID in the following ways:. - Query instance ID by logging in to the console. . - Specifies the instance ID by calling the api DescribeInstances and getting <code>InstanceId</code> from the return information. .
ProtectedFromScaleIn	Yes	Boolean	Whether to enable scale-in protection for this instance

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Enabling scale-in protection for an instance

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: SetInstancesProtection
<Common request parameters>

{
  "AutoScalingGroupId": "asg-2umy3jbd",
  "ProtectedFromScaleIn": "true",
  "InstanceIds": [
```



```
"ins-b2d33ywt"
]
```

Output Example

```
{
  "Response": {
    "RequestId": "5b7168d9-5709-4d69-bd32-880a2f565e33"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.

InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.InstancesNotInAutoScalingGroup	The target instance is not in the auto scaling group.

StartAutoScalingInstances

最近更新时间：2025-07-23 15:50:38

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to start up CVM instances in a scaling group.

- After startup, the instance will be in the `IN_SERVICE` status, which will increase the desired capacity. Please note that the desired capacity cannot exceed the maximum value.
- This API supports batch operation. Up to 100 instances can be started up in each request.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: StartAutoScalingInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain available scaling group ids in the following ways:.

			- Query the scaling group ID by logging in to the console. . - Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the return information. .
InstanceIds.N	Yes	Array of String	Specifies the instance ID list of CVM to enable. you can obtain available instance ID in the following ways. - Query instance ID by logging in to the console. . - Get the instance ID by calling the api DescribeInstances and retrieving the <code>InstanceId</code> from the returned information. .

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	The scaling activity ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Starting up CVM instances

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StartAutoScalingInstances
<Common request parameters>

{
  "AutoScalingGroupId": "asg-boz1qhnk",
```

```
"InstanceIds": [  
  "ins-osckfnm7",  
  "ins-cri8d02t"  
]  
}
```

Output Example

```
{  
  "Response": {  
    "ActivityId": "asa-a023dwdj",  
    "RequestId": "28cf9089-2b76-4934-9d1b-b2694c679ff0"  
  }  
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
------------	-------------

FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
ResourceInsufficient.AutoScalingGroupAboveMaxSize	The maximum number of instances in the auto scaling group is exceeded.
ResourceInsufficient.InServiceInstanceAboveMaxSize	The number of instances in a scaling group is more than the maximum capacity.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.InstancesNotInAutoScalingGroup	The target instance is not in the auto scaling group.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.InstanceInOperation	The specified instance is active.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

StopAutoScalingInstances

最近更新时间：2025-07-23 15:50:38

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to shut down CVM instances in a scaling group.

- Use the `SOFT_FIRST` shutdown, which means the CVM will be forcibly shut down if the soft shutdown fails.
- Shutting down instances in the `IN_SERVICE` status will reduce the desired capacity, but the desired capacity cannot be less than the minimum value.
- To use the `STOP_CHARGING` shutdown, the instances you want to shut down must satisfy the conditions of [no charges when shut down](#).
- This API supports batch operation. Up to 100 instances can be shut down in each request.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: StopAutoScalingInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the

			list of regions supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group ID. obtain available scaling group ids in the following ways: - Query the scaling group ID by logging in to the console. . - Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the return information. .
InstanceIds.N	Yes	Array of String	List of CVM instance ids to be closed. you can obtain available instance ids in the following ways: - Query instance ID by logging in to the console. . - Specifies the instance ID by calling the api DescribeInstances and getting <code>InstanceId</code> from the return information. .
StoppedMode	No	String	Whether the shutdown instances will be charged. Valid values: KEEP_CHARGING: keep charging after shutdown. STOP_CHARGING: stop charging after shutdown. Default value: KEEP_CHARGING.

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	The scaling activity ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Shutting down instances in the scaling group in the manner of No Charges When Shut Down

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StopAutoScalingInstances
<Common request parameters>

{
  "AutoScalingGroupId": "asg-boz1qhnk",
  "StoppedMode": "STOP_CHARGING",
  "InstanceIds": [
    "ins-osckfnm7",
    "ins-cri8d02t"
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-m1ebiskl",
    "RequestId": "f3e2873c-af7c-43ee-8aa7-53565d4181c2"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
CallCvmError	CVM API call failed.
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalError.CalleeError	Exceptions occurred while invoking other services.
InternalError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
ResourceInsufficient.AutoScalingGroupBelowMinSize	The number of instances in the auto scaling group is below the minimum value.
ResourceInsufficient.InServiceInstanceBelowMinSize	The number of instances in a scaling group is less than the minimum capacity.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.InstancesNotInAutoScalingGroup	The target instance is not in the auto scaling group.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.InstanceInOperation	The specified instance is active.
ResourceUnavailable.InstanceNotSupportStopCharging	The instance does not support No Charges When Shut Down .
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

ExitStandby

最近更新时间：2025-07-23 15:50:40

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to exit instances from standby status in the scaling group.

- After exiting standby status, the instance enters running state and the CLB weight value is restored to the default value.

This API is used to call the Auto Scaling power-on/power-off API which may change the standby status, while the Cloud Virtual Machine server power on/off API will not affect it.

After instances exit standby status, the scaling group will raise the expected number of instances. The new expected number cannot exceed the maximum value.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters.

For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ExitStandby.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.

AutoScalingGroupId	Yes	String	Auto scaling group ID. obtain available scaling group ids in the following ways: • Query the scaling group ID by logging in to the console. • Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the return information.
InstanceIds.N	Yes	Array of String	List of CVM instances in standby status. you can obtain available instance ID in the following ways: • Query instance ID by logging in to the console. • Get the instance ID by calling the api DescribeInstances and retrieving the <code>InstanceId</code> from the returned information.

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Exiting Instances from Standby Status in the Scaling Group

This example shows you how to exit instances ins-osckfnm7 and ins-cri8d02t from standby status in the scaling group asg-boz1qhmk.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
```

```
X-TC-Action: ExitStandby
<Common request parameters>
{
  "AutoScalingGroupId": "asg-boz1qhnk",
  "InstanceIds": [
    "ins-osckfnn7",
    "ins-cri8d02t"
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-q59zikez",
    "RequestId": "5b039ee6-e8ff-4605-bb24-b45337747431"
  }
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalServerError	An internal error occurred.
InternalServerError.CalleeError	Exceptions occurred while invoking other services.
InternalServerError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.InstancesNotFound	The specified instance does not exist.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.InstanceInOperation	The specified instance is active.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

EnterStandby

最近更新时间：2025-07-23 15:50:40

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to set instances within the scaling group to standby status. Instances in standby status have a CLB weight value of 0 and will not be selected for scaling in, unhealthy replacement, or refresh operation.

This API is used to call the Auto Scaling power-on/power-off API which may change the standby status, while the Cloud Virtual Machine server power on/off API will not affect it.

The instance enters standby status, and the scaling group attempts to lower the expected number of instances, which will not be less than the minimum value.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: EnterStandby.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain available scaling group ids in the

			following ways:. • Query the scaling group ID by logging in to the console. • Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupID from the return information.
InstanceIds.N	Yes	Array of String	List of running instances. non-running instances are not supported. you can obtain available instance ids in the following ways:. • Query instance ID by logging in to the console. • Specifies the instance ID by calling the api DescribeInstances and getting <code>InstanceId</code> from the return information.

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Instance in Scaling Group Entering Standby Status

Instances ins-osckfnm7 and ins-cri8d02t in scaling group asg-boz1qhnk enter standby status.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: EnterStandby
```


<Common request parameters>

```
{
  "AutoScalingGroupId": "asg-boz1qhnk",
  "InstanceIds": [
    "ins-osckfnn7",
    "ins-cri8d02t"
  ]
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-q59zikez",
    "RequestId": "5b039ee6-e8ff-4605-bb24-b45337747431"
  }
}
```

5. Developer Resources

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalServerError	An internal error occurred.
InternalServerError.CalleeError	Exceptions occurred while invoking other services.
InternalServerError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.InstancesNotFound	The specified instance does not exist.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.InstanceInOperation	The specified instance is active.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

Launch Configuration APIs

ModifyLaunchConfigurationAttributes

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1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (ModifyLaunchConfigurationAttributes) is used to modify part of a launch configuration's attributes.

This API is used to modify the startup configuration. Existing instances scaled out using this configuration will not change, while newly added instances using this launch configuration will scale out according to the new configuration.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value ModifyLaunchConfigurator
Version	Yes	String	Common Params . The value
Region	Yes	String	Common Params . For more regions supported by the pi
LaunchConfigurationId	Yes	String	Launch configuration ID. ok logging in to the console (<a 265="" 49="" 967="" 981"="" data-label="Page-Footer" href="https://console.intl.cloud.t</td></tr></table></div><div data-bbox="> ©2013-2025 腾讯云版权所有

			calling the api DescribeLaunchConfigurationTypes (https://intl.cloud.tencent.com/api/document/cn/elasticity/2016-12-01/DescribeLaunchConfigurationTypes) and return the return information
ImageId	No	String	Image ID in the format of <code>img-xxxxxx</code> images: - Public images - Custom images - Shared images You can obtain the image ID by calling the <code>DescribeImages</code> API. - You can also use the <code>DefaultImageId</code> in the response
InstanceTypes.N	No	Array of String	Types of cvm instances. different resource specific models. The launch configuration uses one single instance type or multiple instance types. specifying multiple instance types will invalidate the original <code>InstanceType</code>. can be obtained by calling <code>DescribeInstanceTypeConfiguration</code> table or refer to instance types
InstanceTypesCheckPolicy	No	String	InstanceType verification policy. modification is made to InstanceType, ALL and ANY and the default is ALL. - ALL: Verification passes otherwise, a verification error - ANY: Verification passes otherwise, a verification error Common reasons for unavailable InstanceType being sold out. If a model in InstanceTypes is abolished, a verification error will be returned. valid values set for InstanceType
LaunchConfigurationName	No	String	Display name of the launch configuration. Chinese characters, letters, ("–"), and decimal points with a length of 1 to 64 characters.
UserData	No	String	Base64-encoded custom data

			clear <code>UserData</code> , set it to
SecurityGroupIds.N	No	Array of String	Security group to which the can be obtained from the response of the Describe At least one security group security group specified is
InternetAccessible	No	InternetAccessible	Information of the public ne When the public outbound i assigning a public IP is not is assigned, the new public be greater than 0 Mbps.
InstanceChargeType	No	String	Instance billing mode. Valid - POSTPAID_BY_HOUR: p - SPOTPAID: spot instanc - CDCPAID: dedicated clu
InstanceChargePrepaid	No	InstanceChargePrepaid	Parameter setting for the p mode). This parameter can to set the auto-renewal, an subscribed instances. This parameter is required mode to monthly subscripti after you choose another b This field requires passing i that are not passed in will u This field can be modified c monthly subscription.
InstanceMarketOptions	No	InstanceMarketOptionsRequest	Market-related options for related to spot instances. This parameter is required mode to spot instance. It w you choose another instanc This field requires passing i <code>SpotOptions</code> . Other fiel their default values. This field can be modified c spot instance.
DiskTypePolicy	No	String	Cloud disk type selection p - ORIGINAL: Use the set c - AUTOMATIC: Automatic cloud disk type.

SystemDisk	No	SystemDisk	Instance system disk configuration information.
DataDisks.N	No	Array of DataDisk	Configuration information of data disks. Up to 11 data disks can be modified. Please provide all modification information. The default data disk should be specified.
HostNameSettings	No	HostNameSettings	CVM hostname settings. This field is not supported in the console. This field requires passing in the hostname that are not passed in will cause an error.
InstanceNameSettings	No	InstanceNameSettings	Settings of CVM instance name. If this field is configured in the request, the instance name will be generated according to the format: <code>as-{{AutoScalingGroupName}}</code> . This field requires passing in the instance name fields that are not passed in will cause an error.
EnhancedService	No	EnhancedService	Specifies whether to enable security services and monitoring.
CamRoleName	No	String	Role name of the CAM role. The return value from the DescribeInstances API (https://intl.cloud.tencent.com/api/iam/v1/instances from_cn_redirect=1).
HpcClusterId	No	String	High-Performance computing cluster ID. parameter by calling the DescribeInstances API. Note: this field is empty by default.
IPv6InternetAccessible	No	IPv6InternetAccessible	IPv6 public network bandwidth. address is available in the request. bandwidth can be allocated. parameter is invalid if the request is not in the IPv6 group associated with the instance.
DisasterRecoverGroupIds.N	No	Array of String	Placement group id. only for the console or the API DescribeDisasterRecoveryGroups .
LoginSettings	No	LoginSettings	Instance login settings, which inherit the original login settings. Please note that specifying existing ones. For instance,

			for login and then use this settings to a key, the origin
InstanceTags.N	No	Array of InstanceTag	Instance tag list. By specify added through scale-out c: Tags can be specified. This parameter will overwri add new tags, you need to original tags.
ImageFamily	No	String	Image family name. this par the DescribeImages api.
DedicatedClusterId	No	String	Cloud Dedicated Cluster (C
Metadata	No	Metadata	Custom metadata.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Clearing UserData

This example shows you how to specify the launch configuration asc-291kq6ku and modify UserData to a null string.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyLaunchConfigurationAttributes
<Common request parameters>

{
```

```
"LaunchConfigurationId": "asc-291kq6ku",  
"UserData": ""  
}
```

Output Example

```
{  
  "Response": {  
    "RequestId": "2c027f22-3a3b-489a-a77a-89c53fc15212"  
  }  
}
```

Example2 Specifying the Launch Configuration to Modify Images, InstanceTypes, and Names

This example shows you how to specify the launch configuration asc-291kq6ku and modify the image to img-8toqc6s3, the InstanceType to S2.SMALL1, and the launch configuration name to updated_config.

Input Example

```
POST / HTTP/1.1  
Host: as.intl.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: ModifyLaunchConfigurationAttributes  
<Common request parameters>  
  
{  
  "ImageId": "img-8toqc6s3",  
  "InstanceTypes": [  
    "S2.SMALL1"  
  ],  
  "LaunchConfigurationName": "updated_config",  
  "LaunchConfigurationId": "asc-291kq6ku"  
}
```

Output Example

```
{  
  "Response": {  
    "RequestId": "07022dcb-5bba-48f0-a2b0-800ad006d031"  
  }  
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.CalleeError	Exceptions occurred while invoking other services.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.HostNameUnavailable	The <code>hostname</code> parameter is unavailable to this image.
InvalidParameter.InScenario	The parameter is invalid in a specific scenario.
InvalidParameter.InvalidCombination	Invalid parameter combination.
InvalidParameter.ParameterDeprecated	This parameter has been disused.

InvalidParameter.ParameterMustBeDeleted	Some parameters cannot coexist and should be deleted.
InvalidParameterValue	Wrong parameter value.
InvalidParameterValue.AccountNotSupportBandwidthPackageId	The bandwidth package ID is not supported in this account.
InvalidParameterValue.CvmConfigurationError	Exception with CVM parameter validation.
InvalidParameterValue.HostNameIllegal	Invalid hostname
InvalidParameterValue.HostNameWithSuffixTooLong	HostNames with suffixes are too long and exceed the specified upper limit.
InvalidParameterValue.Ipv6InternetChargeType	The specified IPv6 public network bandwidth billing mode is invalid.
InvalidParameterValue.ImageNotFound	The specified image does not exist.
InvalidParameterValue.InstanceNameIllegal	Invalid instance name
InvalidParameterValue.InstanceNameWithSuffixTooLong	Instance names with suffixes are too long and exceed the specified upper limit.
InvalidParameterValue.InstanceTypeNotSupported	The instance type is not supported.
InvalidParameterValue.InvalidDisasterRecoverGroupId	The format of the placement group ID is incorrect.
InvalidParameterValue.InvalidHpcClusterId	The HPC ID is invalid.
InvalidParameterValue.InvalidImageId	Invalid image ID.
InvalidParameterValue.InvalidInstanceType	Invalid instance type.
InvalidParameterValue.InvalidLaunchConfigurationId	Invalid launch configuration ID.
InvalidParameterValue.InvalidSecurityGroupId	Invalid security group ID.
InvalidParameterValue.LaunchConfigurationNameDuplicated	The launch configuration name already exists.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.MissingBandwidthPackageId	The bandwidth package ID is required.

InvalidParameterValue.NotStringTypeFloat	The value should be a floating point string.
InvalidParameterValue.TooLong	Too many values.
InvalidParameterValue.TooShort	The value of input parameter is too short.
InvalidParameterValue.UserDataFormatError	Incorrect UserData format.
InvalidParameterValue.UserDataSizeExceeded	The UserData is too long.
MissingParameter	Parameter missing.
MissingParameter.InScenario	A parameter is missing in a specific scenario.
ResourceNotFound.BandwidthPackageIdNotFound	The specified bandwidth package ID is not found.
ResourceNotFound.DisasterRecoverGroupNotFound	The specified placement group ID does not exist.
ResourceNotFound.LaunchConfigurationIdNotFound	The specified launch configuration does not exist.

DescribeLaunchConfigurations

最近更新时间：2025-07-23 15:50:58

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to query the information of launch configurations.

- You can query the launch configuration details based on information such as launch configuration ID and name. For more information on filters, see `Filter` .
- If the parameter is empty, a certain number (specified by `Limit` and 20 by default) of launch configurations of the current user will be returned.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeLaunchConfigurations.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
LaunchConfigurationIds.N	No	Array of	Queries by one or more launch configuration IDs in the format of <code>asc-ouy1ax38</code> . The maximum

		String	quantity per request is 100. This parameter does not support specifying both <code>LaunchConfigurationIds</code> and <code>Filters</code> at the same time.
Filters.N	No	Array of Filter	Filter criteria • <code>launch-configuration-id</code> – String – required: no – (filter condition) filter by launch configuration ID. • <code>launch-configuration-name</code> – String – required: no – (filter condition) filter by launch configuration name. • <code>vague-launch-configuration-name</code> – String – required: no – (filter condition) fuzzy search by launch configuration name. • <code>tag-key</code> – String – required: no – (filter condition) filter by tag key. • <code>tag-value</code> – String – required: no – (filter condition) filter by tag value. • <code>tag:tag-key</code> – String – required: no – (filter condition) filter by Tag key-value pair. Replace tag-key with a specific tag key. See Example 3 for usage. The maximum number of <code>Filters</code> per request is 10, and the maximum number of <code>Filter.Values</code> is 5. The parameter does not support specifying both <code>LaunchConfigurationIds</code> and <code>Filters</code>.
Limit	No	Integer	The number of returned results. Default value: <code>20</code> . Maximum value: <code>100</code> . For more information on <code>Limit</code> , see the relevant sections in API Introduction .
Offset	No	Integer	The offset. Default value: <code>0</code> . For more information on <code>Offset</code> , see the relevant sections in API Introduction .

3. Output Parameters

Parameter Name	Type	Description

TotalCount	Integer	Number of eligible launch configurations.
LaunchConfigurationSet	Array of LaunchConfiguration	List of launch configuration details.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Viewing the List of Launch Configuration Using Filters

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeLaunchConfigurations
<Common request parameters>

{
  "Filters": [
    {
      "Values": [
        "asc-fa28v4in"
      ],
      "Name": "launch-configuration-id"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "LaunchConfigurationSet": [
      {
        "ProjectId": 0,
        "LaunchConfigurationId": "asc-fa28v4in",
        "VersionNumber": 2,
```

```
"LaunchConfigurationName": "lc1",
"LaunchConfigurationStatus": "NORMAL",
"AutoScalingGroupAbstractSet": [],
"InstanceType": "S3.MEDIUM4",
"InstanceTypes": [
  "S3.MEDIUM4"
],
"LastOperationInstanceTypesCheckPolicy": "ANY",
"ImageId": "img-eb30mz89",
"ImageFamily": "ubuntu-f0",
"Tags": [],
"IPv6InternetAccessible": {
  "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
  "InternetMaxBandwidthOut": 0,
  "BandwidthPackageId": null
},
"DisasterRecoverGroupIds": [],
"InstanceChargeType": "POSTPAID_BY_HOUR",
"InstanceMarketOptions": null,
"DiskTypePolicy": "ORIGINAL",
"SystemDisk": {
  "DiskType": "CLOUD_PREMIUM",
  "DiskSize": 50
},
>DataDisks": [
  {
    "DiskType": "CLOUD_PREMIUM",
    "DiskSize": 10,
    "SnapshotId": null,
    "DeleteWithInstance": false,
    "Encrypt": false,
    "BurstPerformance": null,
    "ThroughputPerformance": null
  }
],
>LoginSettings": {
  "KeyIds": []
},
"InternetAccessible": {
  "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
  "InternetMaxBandwidthOut": 0,
  "PublicIpAssigned": false,
  "BandwidthPackageId": null
},
"SecurityGroupIds": [],
"EnhancedService": {
  "SecurityService": {
```

```
"Enabled": true
},
"AutomationToolsService": {
  "Enabled": true
},
"MonitorService": {
  "Enabled": true
}
},
"UserData": null,
"InstanceTags": [],
"CreatedTime": "2022-03-03T02:36:12Z",
"UpdatedTime": "2022-03-03T06:49:31Z",
"CamRoleName": "CVM_QcsRole",
"HostNameSettings": {
  "HostName": null,
  "HostNameSuffix": null,
  "HostNameStyle": null
},
"InstanceNameSettings": {
  "InstanceName": "ins-ubuntu-0",
  "InstanceNameSuffix": null,
  "InstanceNameStyle": "UNIQUE"
},
"InstanceChargePrepaid": {
  "Period": 0,
  "RenewFlag": "NOTIFY_AND_AUTO_RENEW"
},
"HpcClusterId": "hpc-u7y5r4e3"
},
"RequestId": "923dd24c-e492-4bdb-90be-1d3bd4bfe8a5"
}
```

Example2 Querying the List of Launch Configuration by Launch Configuration ID

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeLaunchConfigurations
<Common request parameters>

{
```



```
"LaunchConfigurationIds": [  
  "asc-g9uwgyvx",  
  "asc-fa28v4in"  
]  
}
```

Output Example

```
{  
  "Response": {  
    "TotalCount": 2,  
    "LaunchConfigurationSet": [  
      {  
        "ProjectId": 0,  
        "LaunchConfigurationId": "asc-fa28v4in",  
        "VersionNumber": 2,  
        "LaunchConfigurationName": "lc1",  
        "LaunchConfigurationStatus": "NORMAL",  
        "AutoScalingGroupAbstractSet": [],  
        "InstanceType": "S3.MEDIUM4",  
        "InstanceTypes": [  
          "S3.MEDIUM4"  
        ],  
        "LastOperationInstanceTypesCheckPolicy": "ANY",  
        "ImageId": "img-eb30mz89",  
        "InstanceChargeType": "POSTPAID_BY_HOUR",  
        "InstanceMarketOptions": null,  
        "DiskTypePolicy": "ORIGINAL",  
        "SystemDisk": {  
          "DiskType": "CLOUD_PREMIUM",  
          "DiskSize": 50  
        },  
        "DataDisks": [  
          {  
            "DiskType": "CLOUD_PREMIUM",  
            "DiskSize": 10,  
            "BurstPerformance": null,  
            "SnapshotId": null,  
            "DeleteWithInstance": false,  
            "Encrypt": false,  
            "ThroughputPerformance": null  
          }  
        ],  
        "LoginSettings": {  
          "KeyIds": []  
        }  
      }  
    ]  
  }  
}
```

```
"InternetAccessible": {
  "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
  "InternetMaxBandwidthOut": 0,
  "PublicIpAssigned": false,
  "BandwidthPackageId": null
},
"SecurityGroupIds": [],
"EnhancedService": {
  "SecurityService": {
    "Enabled": true
  },
  "AutomationToolsService": {
    "Enabled": true
  },
  "MonitorService": {
    "Enabled": true
  }
},
"UserData": null,
"InstanceTags": [],
"ImageFamily": "ubuntu-f0",
"Tags": [],
"IPv6InternetAccessible": {
  "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
  "InternetMaxBandwidthOut": 0,
  "BandwidthPackageId": null
},
"DisasterRecoverGroupIds": [],
"CreatedTime": "2022-03-03T02:36:12Z",
"UpdatedTime": "2022-03-03T06:49:31Z",
"CamRoleName": "CVM_QcsRole",
"HostNameSettings": {
  "HostName": null,
  "HostNameSuffix": null,
  "HostNameStyle": null
},
"InstanceNameSettings": {
  "InstanceName": "ins-ubuntu-0",
  "InstanceNameSuffix": null,
  "InstanceNameStyle": "UNIQUE"
},
"InstanceChargePrepaid": {
  "Period": 0,
  "RenewFlag": "NOTIFY_AND_AUTO_RENEW"
},
"HpcClusterId": "hpc-u7y5r4e3"
},
```

```
{
  "ProjectId": 0,
  "LaunchConfigurationId": "asc-g9uwgyvx",
  "VersionNumber": 1,
  "LaunchConfigurationName": "lc2",
  "LaunchConfigurationStatus": "NORMAL",
  "AutoScalingGroupAbstractSet": [],
  "InstanceType": "S3.MEDIUM4",
  "InstanceTypes": [
    "S3.MEDIUM4"
  ],
  "LastOperationInstanceTypesCheckPolicy": "ANY",
  "ImageId": "img-eb30mz89",
  "InstanceChargeType": "POSTPAID_BY_HOUR",
  "InstanceMarketOptions": null,
  "DiskTypePolicy": "ORIGINAL",
  "SystemDisk": {
    "DiskType": "CLOUD_PREMIUM",
    "DiskSize": 50
  },
  "DataDisks": [
    {
      "DiskType": "CLOUD_PREMIUM",
      "DiskSize": 40,
      "SnapshotId": null,
      "DeleteWithInstance": null,
      "Encrypt": null,
      "BurstPerformance": null,
      "ThroughputPerformance": null
    }
  ],
  "LoginSettings": {
    "KeyIds": []
  },
  "InternetAccessible": {
    "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
    "InternetMaxBandwidthOut": 0,
    "PublicIpAssigned": false,
    "BandwidthPackageId": null
  },
  "SecurityGroupIds": [],
  "EnhancedService": {
    "SecurityService": {
      "Enabled": true
    },
    "AutomationToolsService": {
      "Enabled": true
    }
  }
}
```

```
{,
  "MonitorService": {
    "Enabled": true
  }
},
  "UserData": null,
  "InstanceTags": [],
  "ImageFamily": "ubuntu-f0",
  "Tags": [],
  "IPv6InternetAccessible": {
    "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
    "InternetMaxBandwidthOut": 0,
    "BandwidthPackageId": null
  },
  "DisasterRecoverGroupIds": [],
  "CreatedTime": "2022-03-02T02:25:12Z",
  "UpdatedTime": "2022-03-02T02:25:12Z",
  "CamRoleName": "CVM_QcsRole",
  "HostNameSettings": {
    "HostName": null,
    "HostNameSuffix": null,
    "HostNameStyle": null
  },
  "InstanceNameSettings": {
    "InstanceName": "ins-ubuntu-0",
    "InstanceNameSuffix": null,
    "InstanceNameStyle": "UNIQUE"
  },
  "InstanceChargePrepaid": {
    "Period": 0,
    "RenewFlag": "NOTIFY_AND_AUTO_RENEW"
  },
  "HpcClusterId": "hpc-u7y5r4e3"
},
  "RequestId": "0d4514d4-e277-4f0f-bc85-8b7377a71980"
}
```

Example3 Querying the List of Launch Configuration Using Filters with Tag:Key Method

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
```

```
X-TC-Action: DescribeLaunchConfigurations
<Common request parameters>

{
  "Filters": [
    {
      "Values": [
        "v2"
      ],
      "Name": "tag:k1"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "LaunchConfigurationSet": [
      {
        "ProjectId": 0,
        "LaunchConfigurationId": "asc-0zri3ck1",
        "VersionNumber": 1,
        "LaunchConfigurationName": "test_tag_k1_v2",
        "LaunchConfigurationStatus": "NORMAL",
        "AutoScalingGroupAbstractSet": [],
        "InstanceType": "S5.MEDIUM4",
        "InstanceTypes": [
          "S5.MEDIUM4"
        ],
        "LastOperationInstanceTypesCheckPolicy": "ANY",
        "ImageId": "img-eb30mz89",
        "InstanceChargeType": "POSTPAID_BY_HOUR",
        "InstanceMarketOptions": null,
        "DiskTypePolicy": "ORIGINAL",
        "SystemDisk": {
          "DiskType": "CLOUD_PREMIUM",
          "DiskSize": 50
        },
        "DataDisks": [
          {
            "DiskType": "CLOUD_PREMIUM",
            "DiskSize": 40,
            "BurstPerformance": null,
            "SnapshotId": null,

```

```
"DeleteWithInstance": null,
"Encrypt": null,
"ThroughputPerformance": null
},
],
"LoginSettings": {
"KeyIds": []
},
"InternetAccessible": {
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"InternetMaxBandwidthOut": 0,
"PublicIpAssigned": false,
"BandwidthPackageId": null
},
"SecurityGroupIds": [],
"EnhancedService": {
"SecurityService": {
"Enabled": true
},
"AutomationToolsService": {
"Enabled": true
},
"MonitorService": {
"Enabled": true
}
},
"UserData": null,
"Tags": [],
"InstanceTags": [],
"ImageFamily": "ubuntu-f0",
"IPv6InternetAccessible": {
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"InternetMaxBandwidthOut": 0,
"BandwidthPackageId": null
},
"DisasterRecoverGroupIds": [],
"CreatedTime": "2022-07-14T06:37:08Z",
"UpdatedTime": "2022-07-14T06:37:08Z",
"CamRoleName": "CVM_QcsRole",
"HostNameSettings": {
"HostName": null,
"HostNameSuffix": null,
"HostNameStyle": null
},
"InstanceNameSettings": {
"InstanceName": "ins-ubuntu-0",
"InstanceNameSuffix": null,
```

```
"InstanceNameStyle": "UNIQUE"
},
"InstanceChargePrepaid": {
  "Period": 0,
  "RenewFlag": "NOTIFY_AND_AUTO_RENEW"
},
"HpcClusterId": "hpc-u7y5r4e3"
}
],
"RequestId": "8b8047bb-1372-4208-866e-a18e7b7547e9"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidLaunchConfiguration	Invalid launch configuration.

InvalidLaunchConfigurationId	The launch configuration ID is invalid.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterConflict	The two parameters specified conflict and cannot co-exist.
InvalidParameterValue.InvalidFilter	Invalid filter condition.
InvalidParameterValue.InvalidLaunchConfigurationId	Invalid launch configuration ID.
InvalidParameterValue.TooLong	Too many values.
InvalidPermission	The account does not support this operation.
LimitExceeded.FilterValuesTooLong	Too many values for the specified filter
UnsupportedOperation	Unsupported operation.

DeleteLaunchConfiguration

最近更新时间：2025-07-23 15:50:58

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DeleteLaunchConfiguration) is used to delete a launch configuration.

- If the launch configuration is active in a scaling group, it cannot be deleted.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteLaunchConfiguration.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
LaunchConfigurationId	Yes	String	Specifies the launch configuration ID that needs to be deleted. you can obtain the launch configuration ID by logging in to the console or calling the api DescribeLaunchConfigurations and retrieving the LaunchConfigurationId from the returned information.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting a launch configuration

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteLaunchConfiguration
<Common request parameters>

{
  "LaunchConfigurationId": "asc-fdz8j7dh"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "dfc4da00-b643-405c-bb4f-d590cfa48b92"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidLaunchConfigurationId	Invalid launch configuration ID.
ResourceInUse.LaunchConfigurationIdInUse	The specified launch configuration is still used in the scaling group.
ResourceNotFound.LaunchConfigurationIdNotFound	The specified launch configuration does not exist.

CreateLaunchConfiguration

最近更新时间：2025-07-23 15:50:59

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This interface (CreateLaunchConfiguration) is used to create new launch configuration.

- To modify a launch configuration, use [ModifyLaunchConfigurationAttributes](#) to partially modify fields. If needed, create a new launch configuration.

By default, 50 launch configurations can be created per region. For details, see [Usage Limits](#).

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateLaunchConfiguration
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.

LaunchConfigurationName	Yes	String	Display name of the launch configuration, which can contain letters, digits, underscores and hyphens (-) and dots. Up to of 60 bytes allowed..
ImageId	No	String	Image ID in the format of <code>img-xxx</code> . There are three types of images: • Public images • Custom images • Shared images You can obtain the image ID in the CVM console. • You can also use the DescribeImages and look for <code>ImageId</code> in the response
ProjectId	No	Integer	Project ID of the launch configuration. default value 0, indicating usage of the default project. obtain this parameter by calling the <code>projectId</code> field in the return value of DescribeProject. Note: the instance's project ID within the scaling group takes the project ID of the scaling group, which is irrelevant here.
InstanceType	No	String	Instance model. Different instance models specify different resource specifications. The specific value can be obtained by calling the DescribeInstanceTypeConf API to get the latest specification table or referring to the description: in Instance Types. <code>InstanceType</code> and

			<code>InstanceTypes</code> are mutually exclusive, and one and only one of them must be entered.
SystemDisk	No	SystemDisk	System disk configuration of the instance. If this parameter is not specified, the default value will be used.
DataDisks.N	No	Array of DataDisk	Information of the instance data disk configuration. If this parameter is not specified, no data disk is purchased by default. Up to 11 data disks can be supported.
InternetAccessible	No	InternetAccessible	Configuration of public network bandwidth. If this parameter is not specified, 1 Mbps will be used by default.
LoginSettings	No	LoginSettings	Login settings of the instance. You can use this parameter to set the login method, password, and key of the instance or keep the login settings of the original image. By default, a random password will be generated and sent to you via the Message Center.
SecurityGroupIds.N	No	Array of String	The security group to which the instance belongs. This parameter can be obtained by calling the <code>SecurityGroupId</code> field of the returned value of DescribeSecurityGroups . If this parameter is not specified, no security group will be bound by default.

EnhancedService	No	EnhancedService	Enhanced services. You can use this parameter to specify whether to enable services such as Cloud Security and Cloud Monitor. If this parameter is not specified, Cloud Monitor and Cloud Security will be enabled by default.
UserData	No	String	Base64-encoded custom data of up to 16 KB.
InstanceChargeType	No	String	Instance billing mode. CVM instances take <code>POSTPAID_BY_HOUR</code> by default. Valid values: <code>POSTPAID_BY_HOUR</code>: pay-as-you-go hourly <code>SPOTPAID</code>: spot instance <code>CDCPAID</code>: dedicated cluster
InstanceMarketOptions	No	InstanceMarketOptionsRequest	Market options of the instance, such as parameters related to spot instances. This parameter is required for spot instances.
InstanceTypes.N	No	Array of String	Instance model list. Different instance models specify different resource specifications. Supports up to 10 instance models. The <code>InstanceType</code> and <code>InstanceTypes</code> parameters are mutually exclusive. One and only one must be filled in. Specific values can be obtained by calling the API DescribeInstanceTypeConf to obtain the latest specification table or refer instance specifications .

CamRoleName	No	String	CAM role name. you can obtain it from the roleName in the return value from the API DescribeRoleList .
InstanceTypesCheckPolicy	No	String	Instance type validation policy. valid values include ALL and ANY. default value ANY. this parameter is valid only when the InstanceType parameter contains multiple instance types. - ALL: verification passes ALL instancetypes are available; otherwise, a verification error will be reported. - ANY: verification passes ANY InstanceType is available; otherwise, a verification error will be reported. Common reasons for unavailable instancetypes include the instancetype being sold out and the corresponding cloud disk being sold out. If a model in InstanceTypes does not exist or has been abolished, a verification error will be reported regardless the valid values set for InstanceTypesCheckPolicy.
InstanceTags.N	No	Array of InstanceTag	List of tags. This parameter is used to bind up to 10 tag to newly added instances.
Tags.N	No	Array of Tag	List of tags. You can specify tags that you want to bind the launch configuration.

			Each launch configuration can have up to 30 tags.
HostNameSettings	No	HostNameSettings	CVM hostname settings.
InstanceNameSettings	No	InstanceNameSettings	Settings of CVM instance names If this field is configured in launch configuration, the <code>InstanceName</code> of a CVM created by the scaling group will be generated according to the configuration; otherwise, it will be in the <code>as-{{AutoScalingGroupName}}</code> format.
InstanceChargePrepaid	No	InstanceChargePrepaid	Details of the monthly subscription, including the purchase period, auto-renewal. It is required if the <code>InstanceChargeType</code> is <code>PREPAID</code>.
DiskTypePolicy	No	String	Cloud disk type selection policy, whose default value <code>ORIGINAL</code>. Valid values: <code>ORIGINAL</code>: Use the set cloud disk type. <code>AUTOMATIC</code>: Automatically select the currently available cloud disk type.
HpcClusterId	No	String	High-Performance computing cluster ID. you can obtain this parameter by calling the DescribeHpcClusters api. Note: this field is empty by default.
IPv6InternetAccessible	No	IPv6InternetAccessible	IPv6 public network bandwidth configuration. If the IPv6 address is available

			in the new instance, public network bandwidth can be allocated to the IPv6 address. This parameter is invalid if <code>Ipv6AddressCount</code> of the scaling group associate with the launch configuratio is 0.
DisasterRecoverGroupIds.N	No	Array of String	Placement group ID. Only one is allowed.
ImageFamily	No	String	Image family name. one and only one must be filled in between image Id and image family name. this parameter can be obtained by calling the DescribeImages api.
DedicatedClusterId	No	String	Local exclusive cluster ID. this parameter can be obtained through the DescribeDedicatedClusters api.
Metadata	No	Metadata	Custom metadata.

3. Output Parameters

Parameter Name	Type	Description
LaunchConfigurationId	String	This parameter is returned when a launch configuration is created through this API, indicating the launch configuration ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a launch configuration with required parameters

This example shows you how to create a launch configuration by only assigning values for the required parameters (launch configuration name, instance model, and image ID) and using system default values for other parameters. The specific configuration is as follows: launch configuration name: as_test; instance model: Standard II 1C1G (S2.SMALL1); image ID: img-8toqc6s3.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLaunchConfiguration
<Common request parameters>

{
  "ImageId": "img-8toqc6s3",
  "InstanceType": "S2.SMALL1",
  "LaunchConfigurationName": "as_test"
}
```

Output Example

```
{
  "Response": {
    "LaunchConfigurationId": "asc-23h37kyn",
    "RequestId": "d639dd64-9e46-4246-b13c-80954f81c11b"
  }
}
```

Example2 Creating a launch configuration with detailed parameters

This example shows you how to create a launch configuration by specifying the basic information (name, instance model, and image ID), and the system disk, data disk, public network billing mode and public network bandwidth cap. Get an auto-assigned public IP. Do not retain the data disk when an instance is terminated. Do not encrypt the data disk. Set the public network billing mode to pay-as-you-go by traffic on an hourly basis. Enable key login, Cloud Monitor and Anti-DDoS.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLaunchConfiguration
```

<Common request parameters>

```
{
  "SystemDisk": {
    "DiskSize": "50",
    "DiskType": "LOCAL_BASIC"
  },
  "LoginSettings": {
    "KeyIds": [
      "skey-k8eypc1l"
    ]
  },
  "ImageId": "img-8toqc6s3",
  "EnhancedService": {
    "SecurityService": {
      "Enabled": "TRUE"
    },
    "MonitorService": {
      "Enabled": "TRUE"
    }
  },
  "LaunchConfigurationName": "as_test",
  "InternetAccessible": {
    "PublicIpAssigned": "TRUE",
    "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
    "InternetMaxBandwidthOut": "5"
  },
  "InstanceType": "S2.SMALL1",
  "DataDisks": [
    {
      "Encrypt": "FALSE",
      "DeleteWithInstance": "TRUE",
      "DiskSize": "100",
      "DiskType": "CLOUD_BASIC"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "LaunchConfigurationId": "asc-fdz8j7dh",
    "RequestId": "9a7209d3-2260-49d7-952a-dfa2001f8822"
  }
}
```

Example3 Creating a spot instance configuration

This example shows you how to create a launch configuration with the following configurations. Launch configuration name: spot-test; model: Standard II 2C4G (S2.MEDIUM4); billing mode: spot instance (SPOTPAID); maximum bid: 0.99 USD/hr.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLaunchConfiguration
<Common request parameters>

{
  "SystemDisk": {
    "DiskSize": "50",
    "DiskType": "CLOUD_PREMIUM"
  },
  "InstanceMarketOptions": {
    "SpotOptions": {
      "SpotInstanceType": "one-time",
      "MaxPrice": "0.99"
    },
    "MarketType": "spot"
  },
  "ImageId": "img-8toqc6s3",
  "InstanceChargeType": "SPOTPAID",
  "LaunchConfigurationName": "spot-test",
  "InternetAccessible": {
    "PublicIpAssigned": "true",
    "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
    "InternetMaxBandwidthOut": "20"
  },
  "InstanceType": "S2.MEDIUM4"
}
```

Output Example

```
{
  "Response": {
    "LaunchConfigurationId": "asc-hpzwe3o2",
    "RequestId": "ccfe3052-e9c9-47ee-bf3d-5bc2dfd972c0"
  }
}
```

Example4 Creating a launch configuration that supports multiple instance models

This example shows you how to create a launch instance that supports two instance models: S2.SMALL2 and S2.SMALL4.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLaunchConfiguration
<Common request parameters>

{
  "ImageId": "img-8toqc6s3",
  "InstanceTypes": [
    "S2.SMALL4",
    "S2.SMALL2"
  ],
  "LaunchConfigurationName": "multi_instance_types"
}
```

Output Example

```
{
  "Response": {
    "LaunchConfigurationId": "asc-77mh1cho",
    "RequestId": "2864c860-27a0-439e-a1e1-0003b76734e7"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.CallStsError	The STS API call failed.
InternalError.CalleeError	Exceptions occurred while invoking other services.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.HostNameUnavailable	The <code>hostname</code> parameter is unavailable to this image.
InvalidParameter.InvalidCombination	Invalid parameter combination.
InvalidParameter.MustOneParameter	A parameter is missing. One of the two parameters must be specified.
InvalidParameter.ParameterDeprecated	This parameter has been disused.
InvalidParameter.ParameterMustBeDeleted	Some parameters cannot coexist and should be deleted.
InvalidParameterValue.AccountNotSupportBandwidthPackageId	The bandwidth package ID is not supported in this account.
InvalidParameterValue.CvmConfigurationError	Exception with CVM parameter validation.
InvalidParameterValue.HostNameIllegal	Invalid hostname

InvalidParameterValue.HostNameWithSuffixTooLong	HostNames with suffixes are too long and exceed the specified upper limit.
InvalidParameterValue.IPv6InternetChargeType	The specified IPv6 public network bandwidth billing mode is invalid.
InvalidParameterValue.ImageNotFound	The specified image does not exist.
InvalidParameterValue.InstanceNameIllegal	Invalid instance name
InvalidParameterValue.InstanceNameWithSuffixTooLong	Instance names with suffixes are too long and exceed the specified upper limit.
InvalidParameterValue.InstanceTypeNotSupported	The instance type is not supported.
InvalidParameterValue.InvalidDisasterRecoverGroupId	The format of the placement group ID is incorrect.
InvalidParameterValue.InvalidHpcClusterId	The HPC ID is invalid.
InvalidParameterValue.InvalidImageId	Invalid image ID.
InvalidParameterValue.InvalidInstanceType	Invalid instance type.
InvalidParameterValue.InvalidLaunchConfiguration	Invalid launch configuration
InvalidParameterValue.InvalidSecurityGroupId	Invalid security group ID.
InvalidParameterValue.InvalidSnapshotId	Invalid snapshot ID.
InvalidParameterValue.LaunchConfigurationNameDuplicated	The launch configuration name already exists.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.MissingBandwidthPackageId	The bandwidth package ID is required.
InvalidParameterValue.NotStringTypeFloat	The value should be a floating point string.
InvalidParameterValue.ProjectIdNotFound	The project ID does not exist.
InvalidParameterValue.TooLong	Too many values.
InvalidParameterValue.TooShort	The value of input parameter is too short.

InvalidParameterValue.UserDataFormatError	Incorrect UserData format.
InvalidParameterValue.UserDataSizeExceeded	The UserData is too long.
InvalidPermission	The account does not support this operation.
LimitExceeded.LaunchConfigurationQuotaNotEnough	You are short of the launch configuration quota.
MissingParameter	Parameter missing.
MissingParameter.InstanceMarketOptions	The <code>InstanceMarketOptions</code> parameter of the spot instance is missing.
ResourceNotFound.BandwidthPackageIdNotFound	The specified bandwidth package ID is not found.
ResourceNotFound.DisasterRecoverGroupNotFound	The specified placement group ID does not exist.
UnauthorizedOperation.AutoScalingRoleUnauthorized	You have not assigned the CAM role AS-QCSRole to Auto Scaling. Please go to the AS console to complete authorization first.

UpgradeLaunchConfiguration

最近更新时间：2025-07-23 15:50:56

1. API Description

This API will be disused soon.

Planned disuse time: 2023-11-22 14:30:38

Domain name for API request: as.intl.tencentcloudapi.com.

There is a replacement API: ModifyLaunchConfiguration. This API carries the risk of parameter overwriting, and it has currently been hidden on the official website.

This API (UpgradeLaunchConfiguration) is used to upgrade the launch configuration.

- This API is used to upgrade the launch configuration, adopting an "entirely overwrite" approach. Regardless of previous parameter settings, they will be uniformly replaced with new configurations as specified in the interface parameters. For non-mandatory fields, if not filled in, default values will be assigned.
- After upgrading and modifying the launch configuration, existing instances that have been scaled out using this configuration will not undergo any changes. Subsequently, newly added instances using this upgraded launch configuration will be scaled out according to the new configuration.

A maximum of 20 requests can be initiated per second for this API.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpgradeLaunchConfiguratio
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.

Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
LaunchConfigurationId	Yes	String	Launch configuration ID.
ImageId	Yes	String	Image ID in the format of <code>img-xxx</code>. There are three types of images: - Public images - Custom images - Shared images You can obtain the image ID in the CVM console. - You can also use the DescribeImages and look for <code>ImageId</code> in the response.
InstanceTypes.N	Yes	Array of String	List of instance models. Different instance models specify different resource specifications. Up to 5 instance models can be supported.
LaunchConfigurationName	Yes	String	Display name of the launch configuration, which can contain letters, digits, underscores and hyphens (-) and dots. Up to of 60 bytes allowed..
DataDisks.N	No	Array of DataDisk	Information of the instance's data disk configuration. If this parameter is not specified, no data disk is purchased by default. Up to 11 data disks can be supported.
EnhancedService	No	EnhancedService	Enhanced services. You can use this parameter to specify whether to enable services such as Cloud Security and

			Cloud Monitor. If this parameter is not specified, Cloud Monitor and Cloud Security will be enabled by default.
InstanceChargeType	No	String	Instance billing type. CVM instances are POSTPAID_BY_HOUR by default. • POSTPAID_BY_HOUR: Pay-as-you-go on an hourly basis • SPOTPAID: Bidding
InstanceMarketOptions	No	InstanceMarketOptionsRequest	Market options of the instance, such as parameter related to spot instances. This parameter is required for spot instances.
InstanceTypesCheckPolicy	No	String	Instance type verification policy. Value range: ALL, ANY. Default value: ANY. • ALL: The verification will success only if all instance types (InstanceType) are available; otherwise, an error will be reported. • ANY: The verification will success if any instance type (InstanceType) is available; otherwise, an error will be reported. Common reasons why an instance type is unavailable include stock-out of the instance type or the corresponding cloud disk. If a model in InstanceTypes does not exist or has been

			discontinued, a verification error will be reported regardless of the value of InstanceTypesCheckPolicy.
InternetAccessible	No	InternetAccessible	Configuration of public network bandwidth. If this parameter is not specified, (Mbps will be used by default
LoginSettings	No	LoginSettings	This parameter is now invalid and should not be used. Upgrading the launch configuration API does not allow modification or overwriting of the LoginSettings parameter. LoginSettings will not change after upgrade.
ProjectId	No	Integer	Project ID of the instance. Leave it blank as the default
SecurityGroupIds.N	No	Array of String	The security group to which the instance belongs. This parameter can be obtained by calling the <code>SecurityGroupId</code> field in the returned value of DescribeSecurityGroups . If this parameter is not specified, no security group will be bound by default.
SystemDisk	No	SystemDisk	System disk configuration of the instance. If this parameter is not specified, the default value will be used
UserData	No	String	Base64-encoded custom data of up to 16 KB.
InstanceTags.N	No	Array of InstanceTag	List of tags. This parameter is used to bind up to 10 tags to newly added instances.
CamRoleName	No	String	CAM role name, which can

			be obtained from the roleName field in the return value of the DescribeRoleList API.
HostNameSettings	No	HostNameSettings	CVM hostname settings.
InstanceNameSettings	No	InstanceNameSettings	Settings of CVM instance names
InstanceChargePrepaid	No	InstanceChargePrepaid	Details of the monthly subscription, including the purchase period, auto-renewal. It is required if the InstanceChargeType is PREPAID .
DiskTypePolicy	No	String	Selection policy of cloud disks. Default value: ORIGINAL. Valid values: - ORIGINAL: uses the configured cloud disk type - AUTOMATIC: automatically chooses an available cloud disk type
IPv6InternetAccessible	No	IPv6InternetAccessible	IPv6 public network bandwidth configuration. If the IPv6 address is available in the new instance, public network bandwidth can be allocated to the IPv6 address. This parameter is invalid if Ipv6AddressCount of the scaling group associated with the launch configuration is 0.

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
-----------	--------	---

4. Example

Example1 Upgrading a launch configuration with required parameters

This example shows you how to upgrade a launch configuration by only assigning values for the required parameters (launch configuration name, instance model, and image ID) and using system default values for other parameters. The specific configuration is as follows: launch configuration name: as_test, instance model: Standard II 1C1G (S2.SMALL1), image ID: img-8toqc6s3.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UpgradeLaunchConfiguration
<Common request parameters>

{
  "ImageId": "img-8toqc6s3",
  "LaunchConfigurationName": "as_test",
  "InstanceTypes": [
    "S2.SMALL1"
  ],
  "LaunchConfigurationId": "asc-gj14vczi"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "d68a3364-a933-4664-bee4-fb89b8c69b49"
  }
}
```

Example2 Upgrading a launch configuration with detailed parameters

This example shows you how to upgrade a launch configuration with the following configurations. Launch configuration name: as_test; image ID: img-8toqc6s3; model: Standard II 1C1G (S2.SMALL1); system disk: 50

GB local disk; data disk: 100 GB HDD cloud disk; public network billing: pay-as-you-go by traffic on an hourly basis; public network bandwidth cap: 5 Mbps; public IP: assigned; login method: key; Cloud Monitor service: enabled; Anti-DDoS: enabled.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UpgradeLaunchConfiguration
<Common request parameters>

{
  "SystemDisk": {
    "DiskSize": "50",
    "DiskType": "LOCAL_BASIC"
  },
  "LoginSettings": {
    "KeyIds": [
      "skey-k8eypc1l"
    ]
  },
  "LaunchConfigurationId": "asc-gj14vczi",
  "InstanceTypes": [
    "S2.SMALL1"
  ],
  "ImageId": "img-8toqc6s3",
  "EnhancedService": {
    "SecurityService": {
      "Enabled": "TRUE"
    },
    "MonitorService": {
      "Enabled": "TRUE"
    }
  },
  "LaunchConfigurationName": "as_test",
  "InternetAccessible": {
    "PublicIpAssigned": "TRUE",
    "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
    "InternetMaxBandwidthOut": "5"
  },
  "DataDisks": [
    {
      "Encrypt": "FALSE",
      "DeleteWithInstance": "TRUE",
      "DiskSize": "1000",
```



```
"ThroughputPerformance": "100",  
"DiskType": "CLOUD_HSSD"  
}  
]  
}
```

Output Example

```
{  
  "Response": {  
    "RequestId": "1430a2d3-eb73-44c6-8316-218c4562a85c"  
  }  
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description

CallCvmError	CVM API call failed.
InternalError	An internal error occurred.
InvalidImageId.NotFound	The image cannot be found.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.InvalidCombination	Invalid parameter combination.
InvalidParameter.MustOneParameter	A parameter is missing. One of the two parameters must be specified.
InvalidParameter.ParameterDeprecated	This parameter has been disused.
InvalidParameter.ParameterMustBeDeleted	Some parameters cannot coexist and should be deleted.
InvalidParameterValue	Wrong parameter value.
InvalidParameterValue.AccountNotSupportBandwidthPackageId	The bandwidth package ID is not supported in this account.
InvalidParameterValue.CvmConfigurationError	Exception with CVM parameter validation.
InvalidParameterValue.CvmError	Exception with CVM parameter validation.
InvalidParameterValue.HostNameIllegal	Invalid hostname
InvalidParameterValue.Ipv6InternetChargeType	The specified IPv6 public network bandwidth billing mode is invalid.
InvalidParameterValue.InstanceTypeNotSupported	The instance type is not supported.
InvalidParameterValue.InvalidImageId	Invalid image ID.
InvalidParameterValue.InvalidInstanceType	Invalid instance type.
InvalidParameterValue.InvalidLaunchConfigurationId	Invalid launch configuration ID.
InvalidParameterValue.LaunchConfigurationNameDuplicated	The launch configuration name already exists.
InvalidParameterValue.MissingBandwidthPackageId	The bandwidth package ID is

	required.
InvalidParameterValue.NotStringTypeFloat	The value should be a floating point string.
InvalidParameterValue.ProjectIdNotFound	The project ID does not exist.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.UserDataFormatError	Incorrect UserData format.
InvalidParameterValue.UserDataSizeExceeded	The UserData is too long.
MissingParameter	Parameter missing.
ResourceNotFound.BandwidthPackageIdNotFound	The specified bandwidth package ID is not found.
ResourceNotFound.LaunchConfigurationIdNotFound	The specified launch configuration does not exist.

ClearLaunchConfigurationAttributes

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1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to clear specific attributes of the launch configuration.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ClearLaunchConfigurationAttributes.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
LaunchConfigurationId	Yes	String	Launch configuration ID. obtain in the following ways: - Queries the launch configuration ID by logging in to the console. . - Get the launch configuration ID by calling the api DescribeLaunchConfigurations and

			retrieving the LaunchConfigurationId from the returned information. .
ClearDataDisks	No	Boolean	Whether to clear data disk information. This parameter is optional and the default value is <code>false</code> . Setting it to <code>true</code> will clear data disks, which means that CVM newly created on this launch configuration will have no data disk.
ClearHostNameSettings	No	Boolean	Whether to clear the CVM hostname settings. This parameter is optional and the default value is <code>false</code> . Setting it to <code>true</code> will clear the hostname settings, which means that CVM newly created on this launch configuration will have no hostname.
ClearInstanceNameSettings	No	Boolean	Whether to clear the CVM instance name settings. This parameter is optional and the default value is <code>false</code> . Setting it to <code>true</code> will clear the instance name settings, which means that CVM newly created on this launch configuration will be named in the as-{{AutoScalingGroupName}} format.
ClearDisasterRecoverGroupIds	No	Boolean	Whether to clear placement group information. This parameter is optional. Default value: <code>false</code> . <code>True</code> means clearing placement group information. After that, no placement groups are specified for CVMs created based on the information.
ClearInstanceTags	No	Boolean	Whether to clear the instance tag list. This parameter is optional, and its default value is false. If true is filled in, it indicates that the instance tag list should be cleared. After the list is cleared, the CVMs created based on this will not be bound to the tags in the list.
ClearMetadata	No	Boolean	Whether to clear metadata, optional,

defaults to false. Setting it to true will clear metadata, the CVMs created based on this will not be associated with custom metadata.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Clearing data disk information of the launch configuration

The following example clears the data disks of the launch configuration `asc-kr4beurf` . And do not assign data disks to CVMs created by using `asc-kr4beurf` .

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ClearLaunchConfigurationAttributes
<Common request parameters>

{
  "LaunchConfigurationId": "asc-kr4beurf",
  "ClearDataDisks": true
}
```

Output Example

```
{
  "Response": {
    "RequestId": "382c6cad-15ae-496a-a965-66b95674f5a7"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidLaunchConfigurationId	Invalid launch configuration ID.

Making API Requests

Request Structure

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1. Service Address

The API supports access from either a nearby region (at `as.intl.tencentcloudapi.com`) or a specified region (at `as.ap-guangzhou.tencentcloudapi.com` for Guangzhou, for example).

We recommend using the domain name to access the nearest server. When you call an API, the request is automatically resolved to a server in the region **nearest** to the location where the API is initiated. For example, when you initiate an API request in Guangzhou, this domain name is automatically resolved to a Guangzhou server, the result is the same as that of specifying the region in the domain like "`as.ap-guangzhou.tencentcloudapi.com`".

Note: For latency-sensitive businesses, we recommend that you specify the region in the domain name.

Tencent Cloud currently supports the following regions:

Hosted region	Domain name
Local access region (recommended, only for non-financial availability zones)	<code>as.intl.tencentcloudapi.com</code>
South China (Guangzhou)	<code>as.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>as.ap-shanghai.tencentcloudapi.com</code>
East China (Nanjing)	<code>as.ap-nanjing.tencentcloudapi.com</code>
North China (Beijing)	<code>as.ap-beijing.tencentcloudapi.com</code>
Southwest China (Chengdu)	<code>as.ap-chengdu.tencentcloudapi.com</code>
Southwest China (Chongqing)	<code>as.ap-chongqing.tencentcloudapi.com</code>

Hong Kong, Macao, Taiwan (Hong Kong, China)	as.ap- hongkong.tencentcloudapi.com
Southeast Asia (Singapore)	as.ap- singapore.tencentcloudapi.com
Southeast Asia (Jakarta)	as.ap- jakarta.tencentcloudapi.com
Southeast Asia (Bangkok)	as.ap- bangkok.tencentcloudapi.com
Northeast Asia (Seoul)	as.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	as.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	as.na- ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	as.na- siliconvalley.tencentcloudapi.com
South America (São Paulo)	as.sa- saopaulo.tencentcloudapi.com
Europe (Frankfurt)	as.eu- frankfurt.tencentcloudapi.com

Note: As financial availability zones and non-financial availability zones are isolated, when accessing the services in a financial availability zone (with the common parameter `Region` specifying a financial availability zone), it is necessary to specify a domain name of the financial availability zone, preferably in the same region as specified in `Region`.

Access region for financial availability zone	Domain name for financial availability zone
East China (Shanghai Finance)	as.ap-shanghai-fsi.tencentcloudapi.com
South China (Shenzhen Finance)	as.ap-shenzhen-fsi.tencentcloudapi.com

2. Communications Protocol

All the Tencent Cloud APIs communicate via HTTPS, providing highly secure communication tunnels.

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

- application/json (recommended). The TC3-HMAC-SHA256 signature algorithm must be used.
- application/x-www-form-urlencoded. The HmacSHA1 or HmacSHA256 signature algorithm must be used.
- multipart/form-data (only supported by certain APIs). You must use TC3-HMAC-SHA256 to calculate the signature.

The size of a GET request packet is up to 32 KB. The size of a POST request is up to 1 MB when the HmacSHA1 or HmacSHA256 signature algorithm is used, and up to 10 MB when TC3-HMAC-SHA256 is used.

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

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Common parameters are used for all APIs authenticating requestors. Common parameters must be included in all API requests, and they will not be described in individual API documents.

The exact contents of the common parameters will vary depending on the version of the signature method you use.

Common parameters for Signature Algorithm v3

When the TC3-HMAC-SHA256 algorithm is used, the common parameters should be uniformly placed in the HTTP request header, as shown below:

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter <code>Action</code> in the input parameter documentation. For example, the API for querying the CVM instances is <code>DescribeInstances</code> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the request work with belongs. For values supported for an API, see the description of parameter <code>Region</code> in the input parameters in related API documentation. This parameter is not required for some APIs (which will be indicated in the documentation), and will not take effect even it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request is made, for example, 1529223702. Note: If the difference between the UNIX timestamp and server time is greater than 5 minutes, a signature expiration error will be returned.
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of input parameter <code>Version</code> in the API documentation. For example, the CVM API version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKID*****/Date/service/tc3_request/ SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this

			– Credential: Signature credential; AKID***** is the SecretId; D: time, and this value must match the value of X-TC-Timestamp (a in UTC time format; service is the name of the product/service, a domain name prefix. For example, a domain name cvm.tencentcloud.com the CVM product and the value would be cvm; – SignedHeaders: The headers that contains the authentication in type and host are the required headers; – Signature: Signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a long-term key to obtain the temporary key and token by calling a CAM API. No a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Limit=10&Offset=0
```

```
Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

The following example shows you how to structure an HTTP POST (application/json) request:

```
https://cvm.tencentcloudapi.com/
```

```
Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

{"Offset":0,"Limit":10}
```

Example of an HTTP POST (multipart/form-data) request structure (only supported by specific APIs):

```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: multipart/form-data; boundary=58731222010402
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

--58731222010402
Content-Disposition: form-data; name="Offset"

0
--58731222010402
Content-Disposition: form-data; name="Limit"

10
--58731222010402--
```

Common parameters for Signature Algorithm v1

To adopt the HmacSHA1 and HmacSHA256 signature methods, common parameters must be put into the request string, as shown below:

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
Region	String	Yes	Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter <code>Region</code> in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API

			documentation), and will not take effect even if it is passed.
Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with <code>Timestamp</code> to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the Cloud API Key page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).
Signature	String	Yes	Request signature used to verify the validity of this request. This is calculated based on the actual input parameters. For more information about how this is calculated, see the API authentication documentation.
Version	String	Yes	API version of the action. For the valid values, see the description of the common input parameter <code>Version</code> in the API documentation. For example, the version of CVM is 2017-03-12.
SignatureMethod	String	No	Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID*****
```

```
Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded
```

Example of an HTTP POST request structure:

```
https://cvm.tencentcloudapi.com/

Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded

Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=
1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bb224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID*****
****
```

Region List

The supported Region field values for all APIs in this product are listed as below. For any API that does not support any of the following regions, this field will be described additionally in the relevant API document.

Region	Value
Southeast Asia (Bangkok)	ap-bangkok
North China (Beijing)	ap-beijing
Southwest China (Chengdu)	ap-chengdu
Southwest China (Chongqing)	ap-chongqing
South China (Guangzhou)	ap-guangzhou
Hong Kong/Macao/Taiwan (China) (Hong Kong (China))	ap-hongkong
Southeast Asia (Jakarta)	ap-jakarta
East China (Nanjing)	ap-nanjing
Northeast Asia (Seoul)	ap-seoul
East China (Shanghai)	ap-shanghai
East China (Shanghai Finance)	ap-shanghai-fsi
South China (Shenzhen Finance)	ap-shenzhen-fsi

Southeast Asia (Singapore)	ap-singapore
Northeast Asia (Tokyo)	ap-tokyo
Europe (Frankfurt)	eu-frankfurt
East US (Virginia)	na-ashburn
West US (Silicon Valley)	na-siliconvalley
South America (São Paulo)	sa-saopaulo

Signature v3

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TencentCloud API authenticates every single request, i.e., the request must be signed using the security credentials in the designated steps. Each request has to contain the signature information (Signature) in the common request parameters and be sent in the specified way and format.

Applying for Security Credentials

The security credential used in this document is a key, which includes a SecretId and a SecretKey. Each user can have up to two pairs of keys.

- SecretId: Used to identify the API caller, which is just like a username.
- SecretKey: Used to authenticate the API caller, which is just like a password.
- **You must keep your security credentials private and avoid disclosure; otherwise, your assets may be compromised. If they are disclosed, please disable them as soon as possible.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) console page.
3. On the [TencentCloud API Key](#) page, click **Create** to create a SecretId/SecretKey pair.

Using the Resources for Developers

TencentCloud API comes with SDKs for seven commonly used programming languages, including [Python](#), [Java](#), [PHP](#), [Go](#), [NodeJS](#) and [.NET](#). In addition, it provides [API Explorer](#) which enables online call, signature verification, and SDK code generation. If you have any troubles calculating a signature, consult these resources.

TC3-HMAC-SHA256 Signature Algorithm

Compatible with the previous HmacSHA1 and HmacSHA256 signature algorithms, the TC3-HMAC-SHA256 signature algorithm is more secure and supports larger requests and JSON format with better performance. We recommend using TC3-HMAC-SHA256 to calculate the signature.

TencentCloud API supports both GET and POST requests. For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats, Content-Type: application/json and Content-Type: multipart/form-data, are supported. The JSON format is supported by default for all business APIs, and the multipart format is supported only for specific business APIs. In this case, the API cannot be called in JSON format. See the specific business API documentation for more information. The POST method is recommended, as there is no difference in the results of both the methods, but the GET method only supports request packets up to 32 KB.

The following uses querying the list of CVM instances in the Guangzhou region as an example to describe the steps of signature splicing. We chose this API because:

1. CVM is activated by default, and this API is often used;
2. It is read-only and does not change the status of existing resources;
3. It covers many types of parameters, which allows it to be used to demonstrate how to use arrays containing data structures.

In the example, we try to choose common parameters and API parameters that are prone to mistakes. When you actually call an API, please use parameters based on the actual conditions. The parameters vary by API. Do not copy the parameters and values in this example.

Assuming that your SecretId and SecretKey are `AKID*****` and `*****`, respectively, if you want to view the status of the instance in the Guangzhou region whose CVM instance name is "unnamed" and have only one data entry returned, then the request may be:

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=a7b8551448762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2" \
-H "Content-Type: application/json; charset=utf-8" \
-H "Host: cvm.tencentcloudapi.com" \
-H "X-TC-Action: DescribeInstances" \
-H "X-TC-Timestamp: 1551113065" \
-H "X-TC-Version: 2017-03-12" \
-H "X-TC-Region: ap-guangzhou" \
-d '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}'
```

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

Concatenate the canonical request string (CanonicalRequest) in the following pseudocode format:

```
CanonicalRequest =
HTTPRequestMethod + '\n' +
CanonicalURI + '\n' +
CanonicalQueryString + '\n' +
CanonicalHeaders + '\n' +
SignedHeaders + '\n' +
HashedRequestPayload
```

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <code>POST</code> .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty string "" for POST requests, and is the string after the question mark (?) for GET requests. For example: Limit=10&Offset=0. Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing RFC3986 UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code> . Custom headers can be added to participate in signature process to improve the uniqueness and security of the request. Concatenation rules: - Both the key and value of the header should be converted to lowercase with leading and trailing spaces removed, so they are concatenated in the format <code>key:value\n</code> format; - If there are multiple headers, they should be sorted in ASCII ascending order of the header keys (lowercase). The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code> . Note: <code>content-type</code> must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the server will return an error indicating that signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to a header in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers. Concatenation rules: - Both the key and value of the header should be converted to lowercase; - If there are multiple headers, they should be sorted in ASCII ascending order of the header keys (lowercase) and separated by semicolons (;).

	The value in this example is <code>content-type;host</code>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}</code> this example). The pseudocode for calculation is <code>Lowercase(HexEncode(Hash.SHA256(RequestPayload)))</code> by SHA256 hashing the payload of the HTTP request, performing hexadecimal encoding, and finally converting the encoded string to lowercase letters. For GET requests, <code>RequestPayload</code> is always an empty string. The calculation result in this example is <code>99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4</code>

According to the rules above, the `CanonicalRequest` string obtained in the example is as follows:

```
POST
/

content-type:application/json; charset=utf-8
host:cvm.tencentcloudapi.com

content-type;host
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

<pre>StringToSign = Algorithm + \n + RequestTimestamp + \n + CredentialScope + \n + HashedCanonicalRequest</pre>	
Field Name	Explanation
Algorithm	Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in the request header, which is the UNIX timestamp of the current time in seconds such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including the date, requested service and termination string (tc3_request). Date is a UTC time, whose value should match the UTC date converted by the comm

	parameter <code>X-TC-Timestamp</code> ; <code>service</code> is the product name, which should match the domain name of the product called. The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .
HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is <code>Lowercase(HexEncode(Hash.SHA256(CanonicalRequest)))</code> . The calculation result in this example is <code>2815843035062fffd5fd6f2a44ea8a34818b0dc46f024b8b3786976a3a</code>

Note:

1. Date has to be calculated from the timestamp "X-TC-Timestamp" and the time zone is UTC+0. If you add the system's local time zone information (such as UTC+8), calls can succeed both day and night but will definitely fail at 00:00. For example, if the timestamp is 1551113065 and the time in UTC+8 is 2019-02-26 00:44:25, the UTC+0 date in the calculated Date value should be 2019-02-25 instead of 2019-02-26.
2. Timestamp must be the same as your current system time, and your system time and standard time must be synced; if the difference between Timestamp and your current system time is larger than five minutes, the request will fail. If your system time is out of sync with the standard time for a while, the request will fail and return a signature expiration error.

According to the preceding rules, the string to be signed obtained in the example is as follows:

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062fffd5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

1. Calculate the derived signature key with the following pseudocode:

```
SecretKey = "*****"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

Field Name	Explanation
SecretKey	The original SecretKey, i.e., ***** .
Date	The Date field information in Credential , such as 2019-02-25 in this example.
Service	Value in the Service field in Credential , such as cvm in this example.

2. Calculate the signature with the following pseudocode:

```
Signature = HexEncode(HMAC_SHA256(SecretSigning, StringToSign))
```

4. Concatenating the Authorization

The Authorization is concatenated as follows:

```
Authorization =
Algorithm + ' ' +
'Credential=' + SecretId + '/' + CredentialScope + ', ' +
'SignedHeaders=' + SignedHeaders + ', ' +
'Signature=' + Signature
```

Field Name	Explanation
Algorithm	Signature algorithm, which is always TC3-HMAC-SHA256 .
SecretId	The SecretId in the key pair, i.e., AKID***** .
CredentialScope	Credential scope (see above). The calculation result in this example is 2019-02-25/cvm/tc3_request .
SignedHeaders	Header information for signature calculation (see above), such as content-type;host in this example.
Signature	Signature value. The calculation result in this example is a7b8551448762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2 .

According to the rules above, the value obtained in the example is:

```
TC3-HMAC-SHA256 Credential=AKID*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=a7b8551448762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKID*****/20
19-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=a7b855144876
2bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?`

`Action=DescribeInstances&InstanceId.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGel%3D&Timestamp=1465185768&Version=2017-03-12.`

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId

and `SecretKey` in the example with your real credentials and use the current time of the system as the `Timestamp`.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.security.MessageDigest;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.TimeZone;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPITC3Demo {
    private final static Charset UTF8 = StandardCharsets.UTF_8;
    private final static String SECRET_ID = "AKID*****";
    private final static String SECRET_KEY = "*****";
    private final static String CT_JSON = "application/json; charset=utf-8";

    public static byte[] hmac256(byte[] key, String msg) throws Exception {
        Mac mac = Mac.getInstance("HmacSHA256");
        SecretKeySpec secretKeySpec = new SecretKeySpec(key, mac.getAlgorithm());
        mac.init(secretKeySpec);
        return mac.doFinal(msg.getBytes(UTF8));
    }

    public static String sha256Hex(String s) throws Exception {
        MessageDigest md = MessageDigest.getInstance("SHA-256");
        byte[] d = md.digest(s.getBytes(UTF8));
        return DatatypeConverter.printHexBinary(d).toLowerCase();
    }

    public static void main(String[] args) throws Exception {
        String service = "cvm";
        String host = "cvm.tencentcloudapi.com";
    }
}
```



```
String region = "ap-guangzhou";
String action = "DescribeInstances";
String version = "2017-03-12";
String algorithm = "TC3-HMAC-SHA256";
String timestamp = "1551113065";
//String timestamp = String.valueOf(System.currentTimeMillis() / 1000);
SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
// Pay attention to the time zone; otherwise, errors may occur
sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));

// ***** Step 1: Concatenate the CanonicalRequest string *****
String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + host + "\n";
String signedHeaders = "content-type;host";

String payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}] }";
String hashedRequestPayload = sha256Hex(payload);
String canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
System.out.println(canonicalRequest);

// ***** Step 2: Concatenate the string to sign *****
String credentialScope = date + "/" + service + "/" + "tc3_request";
String hashedCanonicalRequest = sha256Hex(canonicalRequest);
String stringToSign = algorithm + "\n" + timestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
System.out.println(stringToSign);

// ***** Step 3: Calculate the signature *****
byte[] secretDate = hmac256(("TC3" + SECRET_KEY).getBytes(UTF8), date);
byte[] secretService = hmac256(secretDate, service);
byte[] secretSigning = hmac256(secretService, "tc3_request");
String signature = DatatypeConverter.printHexBinary(hmac256(secretSigning, stringToSign)).toLowerCase();
System.out.println(signature);

// ***** Step 4: Concatenate the Authorization *****
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
System.out.println(authorization);
```

```
TreeMap<String, String> headers = new TreeMap<String, String>();
headers.put("Authorization", authorization);
headers.put("Content-Type", CT_JSON);
headers.put("Host", host);
headers.put("X-TC-Action", action);
headers.put("X-TC-Timestamp", timestamp);
headers.put("X-TC-Version", version);
headers.put("X-TC-Region", region);

StringBuilder sb = new StringBuilder();
sb.append("curl -X POST https://").append(host)
.append(" -H \"Authorization: ").append(authorization).append("\")")
.append(" -H \"Content-Type: application/json; charset=utf-8\"")
.append(" -H \"Host: ").append(host).append("\")")
.append(" -H \"X-TC-Action: ").append(action).append("\")")
.append(" -H \"X-TC-Timestamp: ").append(timestamp).append("\")")
.append(" -H \"X-TC-Version: ").append(version).append("\")")
.append(" -H \"X-TC-Region: ").append(region).append("\")")
.append(" -d '").append(payload).append("'");
System.out.println(sb.toString());
}
```

Python

```
# -*- coding: utf-8 -*-
import hashlib, hmac, json, os, sys, time
from datetime import datetime

# Key Parameters
secret_id = "AKID*****"
secret_key = "*****"

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcfromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

```
# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = "POST"
canonical_uri = "/"
canonical_querystring = ""
ct = "application/json; charset=utf-8"
payload = json.dumps(params)
canonical_headers = "content-type:%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
canonical_uri + "\n" +
canonical_querystring + "\n" +
canonical_headers + "\n" +
signed_headers + "\n" +
hashed_request_payload)
print(canonical_request)

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + "/" + service + "/" + "tc3_request"
hashed_canonical_request = hashlib.sha256(canonical_request.encode("utf-8")).hexdigest()
string_to_sign = (algorithm + "\n" +
str(timestamp) + "\n" +
credential_scope + "\n" +
hashed_canonical_request)
print(string_to_sign)

# ***** Step 3: Calculate the Signature *****
# Function for computing signature digest
def sign(key, msg):
    return hmac.new(key, msg.encode("utf-8"), hashlib.sha256).digest()
secret_date = sign(("TC3" + secret_key).encode("utf-8"), date)
secret_service = sign(secret_date, service)
secret_signing = sign(secret_service, "tc3_request")
signature = hmac.new(secret_signing, string_to_sign.encode("utf-8"), hashlib.sha256).hexdigest()
print(signature)

# ***** Step 4: Concatenate the Authorization *****
authorization = (algorithm + " " +
"Credential=" + secret_id + "/" + credential_scope + ", " +
"SignedHeaders=" + signed_headers + ", " +
"Signature=" + signature)
print(authorization)
```

```
print('curl -X POST ' + endpoint
+ ' -H "Authorization: ' + authorization + '" '
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + host + '" '
+ ' -H "X-TC-Action: ' + action + '" '
+ ' -H "X-TC-Timestamp: ' + str(timestamp) + '" '
+ ' -H "X-TC-Version: ' + version + '" '
+ ' -H "X-TC-Region: ' + region + '" '
+ " -d '" + payload + '"')
```

Golang

```
package main

import (
    "crypto/hmac"
    "crypto/sha256"
    "encoding/hex"
    "fmt"
    "time"
)

func sha256hex(s string) string {
    b := sha256.Sum256([]byte(s))
    return hex.EncodeToString(b[:])
}

func hmacsha256(s, key string) string {
    hashed := hmac.New(sha256.New, []byte(key))
    hashed.Write([]byte(s))
    return string(hashed.Sum(nil))
}

func main() {
    secretId := "AKID*****"
    secretKey := "*****"
    host := "cvm.tencentcloudapi.com"
    algorithm := "TC3-HMAC-SHA256"
    service := "cvm"
    version := "2017-03-12"
    action := "DescribeInstances"
    region := "ap-guangzhou"
    //var timestamp int64 = time.Now().Unix()
    var timestamp int64 = 1551113065

    // step 1: build canonical request string
```

```
httpRequestMethod := "POST"
canonicalURI := "/"
canonicalQueryString := ""
canonicalHeaders := "content-type:application/json; charset=utf-8\n" + "host:" +
host + "\n"
signedHeaders := "content-type;host"
payload := `{ "Limit": 1, "Filters": [{ "Values": ["unnamed"], "Name": "instance-na
me" }] }`
hashedRequestPayload := sha256hex(payload)
canonicalRequest := fmt.Sprintf("%s\n%s\n%s\n%s\n%s\n%s",
httpRequestMethod,
canonicalURI,
canonicalQueryString,
canonicalHeaders,
signedHeaders,
hashedRequestPayload)
fmt.Println(canonicalRequest)

// step 2: build string to sign
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)
hashedCanonicalRequest := sha256hex(canonicalRequest)
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",
algorithm,
timestamp,
credentialScope,
hashedCanonicalRequest)
fmt.Println(string2sign)

// step 3: sign string
secretDate := hmacsha256(date, "TC3"+secretKey)
secretService := hmacsha256(service, secretDate)
secretSigning := hmacsha256("tc3_request", secretService)
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))
fmt.Println(signature)

// step 4: build authorization
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%
s",
algorithm,
secretId,
credentialScope,
signedHeaders,
signature)
fmt.Println(authorization)

curl := fmt.Sprintf(`curl -X POST https://%s\`
```

```

-H "Authorization: %s"\
-H "Content-Type: application/json; charset=utf-8"\
-H "Host: %s" -H "X-TC-Action: %s"\
-H "X-TC-Timestamp: %d"\
-H "X-TC-Version: %s"\
-H "X-TC-Region: %s"\
-d '%s', host, authorization, host, action, timestamp, version, region, payload)
fmt.Println(curl)
}

```

PHP

```

<?php
$secretId = "AKID*****";
$secretKey = "*****";
$host = "cvm.tencentcloudapi.com";
$service = "cvm";
$version = "2017-03-12";
$action = "DescribeInstances";
$region = "ap-guangzhou";
// $timestamp = time();
$timestamp = 1551113065;
$algorithm = "TC3-HMAC-SHA256";

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:". $host. "\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod. "\n"
.$canonicalUri. "\n"
.$canonicalQueryString. "\n"
.$canonicalHeaders. "\n"
.$signedHeaders. "\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;

// step 2: build string to sign
$date = gmdate("Y-m-d", $timestamp);
$credentialScope = $date. "/" . $service. "/tc3_request";
$hashedCanonicalRequest = hash("SHA256", $canonicalRequest);

```

```

$stringToSign = $algorithm."\n"
.$timestamp."\n"
.$credentialScope."\n"
.$hashedCanonicalRequest;
echo $stringToSign.PHP_EOL;

// step 3: sign string
$secretDate = hash_hmac("SHA256", $date, "TC3".$secretKey, true);
$secretService = hash_hmac("SHA256", $service, $secretDate, true);
$secretSigning = hash_hmac("SHA256", "tc3_request", $secretService, true);
$signature = hash_hmac("SHA256", $stringToSign, $secretSigning);
echo $signature.PHP_EOL;

// step 4: build authorization
$authorization = $algorithm
." Credential=".$secretId."/". $credentialScope
.", SignedHeaders=content-type;host, Signature=".$signature;
echo $authorization.PHP_EOL;

$curl = "curl -X POST https://" . $host
.' -H "Authorization: ' . $authorization . '"'
.' -H "Content-Type: application/json; charset=utf-8"'
.' -H "Host: ' . $host . '"'
.' -H "X-TC-Action: ' . $action . '"'
.' -H "X-TC-Timestamp: ' . $timestamp . '"'
.' -H "X-TC-Version: ' . $version . '"'
.' -H "X-TC-Region: ' . $region . '"'
." -d '" . $payload . '"';
echo $curl.PHP_EOL;

```

Ruby

```

# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'digest'
require 'json'
require 'time'
require 'openssl'

# Key Parameters
secret_id = 'AKID*****'
secret_key = '*****'

service = 'cvm'
host = 'cvm.tencentcloudapi.com'
endpoint = 'https://' + host

```

```
region = 'ap-guangzhou'
action = 'DescribeInstances'
version = '2017-03-12'
algorithm = 'TC3-HMAC-SHA256'
# timestamp = Time.now.to_i
timestamp = 1551113065
date = Time.at(timestamp).utc.strftime('%Y-%m-%d')

# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = 'POST'
canonical_uri = '/'
canonical_querystring = ''
canonical_headers = "content-type:application/json; charset=utf-8\nhost:#{host}
\n"
signed_headers = 'content-type;host'
# params = { 'Limit' => 1, 'Filters' => [{ 'Name' => 'instance-name', 'Values' =>
['unnamed'] }] }
# payload = JSON.generate(params, { 'ascii_only' => true, 'space' => ' ' })
# json will generate in random order, to get specified result in example, we hard
-code it here.
payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-nam
e"}]}'
hashed_request_payload = Digest::SHA256.hexdigest(payload)
canonical_request = [
http_request_method,
canonical_uri,
canonical_querystring,
canonical_headers,
signed_headers,
hashed_request_payload,
].join("\n")

puts canonical_request

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + '/' + service + '/' + 'tc3_request'
hashed_request_payload = Digest::SHA256.hexdigest(canonical_request)
string_to_sign = [
algorithm,
timestamp.to_s,
credential_scope,
hashed_request_payload,
].join("\n")
puts string_to_sign

# ***** Step 3: Calculate the Signature *****
digest = OpenSSL::Digest.new('sha256')
```



```

secret_date = OpenSSL::HMAC.digest(digest, 'TC3' + secret_key, date)
secret_service = OpenSSL::HMAC.digest(digest, secret_date, service)
secret_signing = OpenSSL::HMAC.digest(digest, secret_service, 'tc3_request')
signature = OpenSSL::HMAC.hexdigest(digest, secret_signing, string_to_sign)
puts signature

# ***** Step 4: Concatenate the Authorization *****
authorization = "#{algorithm} Credential=#{secret_id}/#{credential_scope}, Signed
Headers=#{signed_headers}, Signature=#{signature}"
puts authorization

puts 'curl -X POST ' + endpoint \
+ ' -H "Authorization: ' + authorization + '"' \
+ ' -H "Content-Type: application/json; charset=utf-8"' \
+ ' -H "Host: ' + host + '"' \
+ ' -H "X-TC-Action: ' + action + '"' \
+ ' -H "X-TC-Timestamp: ' + timestamp.to_s + '"' \
+ ' -H "X-TC-Version: ' + version + '"' \
+ ' -H "X-TC-Region: ' + region + '"' \
+ " -d '" + payload + "'"

```

DotNet

```

using System;
using System.Collections.Generic;
using System.Security.Cryptography;
using System.Text;

public class Application
{
    public static string SHA256Hex(string s)
    {
        using (SHA256 algo = SHA256.Create())
        {
            byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));
            StringBuilder builder = new StringBuilder();
            for (int i = 0; i < hashbytes.Length; ++i)
            {
                builder.Append(hashbytes[i].ToString("x2"));
            }
            return builder.ToString();
        }
    }

    public static byte[] HmacSHA256(byte[] key, byte[] msg)
    {
        using (HMACSHA256 mac = new HMACSHA256(key))

```

```
{
return mac.ComputeHash(msg);
}
}

public static Dictionary<String, String> BuildHeaders(string secretid,
string secretkey, string service, string endpoint, string region,
string action, string version, DateTime date, string requestPayload)
{
string datestr = date.ToString("yyyy-MM-dd");
DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);
long requestTimestamp = (long)Math.Round((date - startTime).TotalMilliseconds, MidpointRounding.AwayFromZero) / 1000;
// ***** Step 1: Concatenate the CanonicalRequest string *****
string algorithm = "TC3-HMAC-SHA256";
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string contentType = "application/json";
string canonicalHeaders = "content-type:" + contentType + "; charset=utf-8\n" +
"host:" + endpoint + "\n";
string signedHeaders = "content-type;host";
string hashedRequestPayload = SHA256Hex(requestPayload);
string canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload;
Console.WriteLine(canonicalRequest);
Console.WriteLine("-----");

// ***** Step 2: Concatenate the string to sign *****
string credentialScope = datestr + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = SHA256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + requestTimestamp.ToString() + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
Console.WriteLine(stringToSign);
Console.WriteLine("-----");

// ***** Step 3: Calculate the signature *****
byte[] tc3SecretKey = Encoding.UTF8.GetBytes("TC3" + secretkey);
byte[] secretDate = HmacSHA256(tc3SecretKey, Encoding.UTF8.GetBytes(datestr));
byte[] secretService = HmacSHA256(secretDate, Encoding.UTF8.GetBytes(service));
byte[] secretSigning = HmacSHA256(secretService, Encoding.UTF8.GetBytes("tc3_request"));
byte[] signatureBytes = HmacSHA256(secretSigning, Encoding.UTF8.GetBytes(stringTo
```

```

Sign));
string signature = BitConverter.ToString(signatureBytes).Replace("-", "").ToLower
();
Console.WriteLine(signature);
Console.WriteLine("-----");

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " "
+ "Credential=" + secretid + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", "
+ "Signature=" + signature;
Console.WriteLine(authorization);
Console.WriteLine("-----");

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}

public static void Main(string[] args)
{
    // SecretID and SecretKey
    string SECRET_ID = "AKID*****";
    string SECRET_KEY = "*****";

    string service = "cvm";
    string endpoint = "cvm.tencentcloudapi.com";
    string region = "ap-guangzhou";
    string action = "DescribeInstances";
    string version = "2017-03-12";

    // The timestamp `2019-02-26 00:44:25` used here is only for reference. In a proj
    ect, use the following parameter:
    // DateTime date = DateTime.UtcNow;
    // Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
    DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds
(1551113065);
    string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"],
    \"Name\": \"instance-name\"}]}";

    Dictionary<string, string> headers = BuildHeaders(SECRET_ID, SECRET_KEY, service
, endpoint, region, action, version, date, requestPayload);

```

```

Console.WriteLine("POST https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
    Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine();
Console.WriteLine(requestPayload);
}
}

```

NodeJS

```

const crypto = require('crypto');

function sha256(message, secret = '', encoding) {
    const hmac = crypto.createHmac('sha256', secret)
    return hmac.update(message).digest(encoding)
}

function getHash(message, encoding = 'hex') {
    const hash = crypto.createHash('sha256')
    return hash.update(message).digest(encoding)
}

function getDate(timestamp) {
    const date = new Date(timestamp * 1000)
    const year = date.getUTCFullYear()
    const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
    const day = ('0' + date.getUTCDate()).slice(-2)
    return `${year}-${month}-${day}`
}

function main() {

    const SECRET_ID = "AKID*****"
    const SECRET_KEY = "*****"

    const endpoint = "cvm.tencentcloudapi.com"
    const service = "cvm"
    const region = "ap-guangzhou"
    const action = "DescribeInstances"
    const version = "2017-03-12"
    //const timestamp = getTime()
    const timestamp = 1551113065
    const date = getDate(timestamp)

    // ***** Step 1: Concatenate the CanonicalRequest string *****
    const signedHeaders = "content-type;host"

```

```
const payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}]}"

const hashedRequestPayload = getHash(payload);
const httpRequestMethod = "POST"
const canonicalUri = "/"
const canonicalQueryString = ""
const canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + endpoint + "\n"

const canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload
console.log(canonicalRequest)
console.log("-----")

// ***** Step 2: Concatenate the string to sign *****
const algorithm = "TC3-HMAC-SHA256"
const hashedCanonicalRequest = getHash(canonicalRequest);
const credentialScope = date + "/" + service + "/" + "tc3_request"
const stringToSign = algorithm + "\n" +
timestamp + "\n" +
credentialScope + "\n" +
hashedCanonicalRequest
console.log(stringToSign)
console.log("-----")

// ***** Step 3: Calculate the signature *****
const kDate = sha256(date, 'TC3' + SECRET_KEY)
const kService = sha256(service, kDate)
const kSigning = sha256('tc3_request', kService)
const signature = sha256(stringToSign, kSigning, 'hex')
console.log(signature)
console.log("-----")

// ***** Step 4: Concatenate the Authorization *****
const authorization = algorithm + " " +
"Credential=" + SECRET_ID + "/" + credentialScope + ", " +
"SignedHeaders=" + signedHeaders + ", " +
"Signature=" + signature
console.log(authorization)
console.log("-----")
```

```
const Call_Information = 'curl -X POST ' + "https://" + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + endpoint + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + timestamp.toString() + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + '"'
console.log(Call_Information)
}
main()
```

C++

```
#include <iostream>
#include <iomanip>
#include <sstream>
#include <string>
#include <stdio.h>
#include <time.h>
#include <openssl/sha.h>
#include <openssl/hmac.h>

using namespace std;

string get_data(int64_t &timestamp)
{
    string utcDate;
    char buff[20] = {0};
    // time_t timenow;
    struct tm sttime;
    sttime = *gmtime(&timestamp);
    strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
    utcDate = string(buff);
    return utcDate;
}

string int2str(int64_t n)
{
    std::stringstream ss;
    ss << n;
    return ss.str();
}

string sha256Hex(const string &str)
{
    char buf[3];
```

```
unsigned char hash[SHA256_DIGEST_LENGTH];
SHA256_CTX sha256;
SHA256_Init(&sha256);
SHA256_Update(&sha256, str.c_str(), str.size());
SHA256_Final(hash, &sha256);
std::string NewString = "";
for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
{
    snprintf(buf, sizeof(buf), "%02x", hash[i]);
    NewString = NewString + buf;
}
return NewString;
}

string HmacSha256(const string &key, const string &input)
{
    unsigned char hash[32];

    HMAC_CTX *h;
    #if OPENSSL_VERSION_NUMBER < 0x10100000L
    HMAC_CTX hmac;
    HMAC_CTX_init(&hmac);
    h = &hmac;
    #else
    h = HMAC_CTX_new();
    #endif

    HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);
    HMAC_Update(h, ( unsigned char* )&input[0], input.length());
    unsigned int len = 32;
    HMAC_Final(h, hash, &len);

    #if OPENSSL_VERSION_NUMBER < 0x10100000L
    HMAC_CTX_cleanup(h);
    #else
    HMAC_CTX_free(h);
    #endif

    std::stringstream ss;
    ss << std::setfill('0');
    for (int i = 0; i < len; i++)
    {
        ss << hash[i];
    }

    return (ss.str());
}

string HexEncode(const string &input)
```

```
{
static const char* const lut = "0123456789abcdef";
size_t len = input.length();

string output;
output.reserve(2 * len);
for (size_t i = 0; i < len; ++i)
{
const unsigned char c = input[i];
output.push_back(lut[c >> 4]);
output.push_back(lut[c & 15]);
}
return output;
}

int main()
{
string SECRET_ID = "AKID*****";
string SECRET_KEY = "*****";

string service = "cvm";
string host = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
int64_t timestamp = 1551113065;
string date = get_data(timestamp);

// ***** Step 1: Concatenate the CanonicalRequest string *****
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string canonicalHeaders = "content-type:application/json; charset=utf-8\nhost:" +
host + "\n";
string signedHeaders = "content-type;host";
string payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}]}";
string hashedRequestPayload = sha256Hex(payload);
string canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
cout << canonicalRequest << endl;
cout << "-----" << endl;

// ***** Step 2: Concatenate the string to sign *****
string algorithm = "TC3-HMAC-SHA256";
string RequestTimestamp = int2str(timestamp);
```



```
string credentialScope = date + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = sha256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + RequestTimestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
cout << stringToSign << endl;
cout << "-----" << endl;

// ***** Step 3: Calculate the signature *****
string kKey = "TC3" + SECRET_KEY;
string kDate = HmacSha256(kKey, date);
string kService = HmacSha256(kDate, service);
string kSigning = HmacSha256(kService, "tc3_request");
string signature = HexEncode(HmacSha256(kSigning, stringToSign));
cout << signature << endl;
cout << "-----" << endl;

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
cout << authorization << endl;
cout << "-----" << endl;

string headers = "curl -X POST https://" + host + "\n"
+ " -H \"Authorization: \" + authorization + "\n"
+ " -H \"Content-Type: application/json; charset=utf-8\" + "\n"
+ " -H \"Host: \" + host + "\n"
+ " -H \"X-TC-Action: \" + action + "\n"
+ " -H \"X-TC-Timestamp: \" + RequestTimestamp + "\n"
+ " -H \"X-TC-Version: \" + version + "\n"
+ " -H \"X-TC-Region: \" + region + "\n"
+ " -d '" + payload;
cout << headers << endl;
return 0;
};
```

Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error Code	Description
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes.

AuthFailure.SecretIdNotFound	The key does not exist. Please go to the console to check whether it is disabled or you copied fewer or more characters.
AuthFailure.SignatureFailure	Signature error. It is possible that the signature was calculated incorrectly, the signature does not match the content actually sent, or the SecretKey is incorrect.
AuthFailure.TokenFailure	Temporary certificate token error.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).

Signature

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Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.

The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the [TencentCloud API Key](#) page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the [TencentCloud API Key](#) page to apply for security credentials.

Security credentials consist of SecretId and SecretKey:

- SecretId is used to identify the API requester.
- SecretKey is used to encrypt the signature string and verify it on the server.
- **You must keep your security credentials private and avoid disclosure.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) page.
3. On the [API Key Management](#) page, click **Create Key** to create a SecretId/SecretKey pair.

Note: Each account can have up to two pairs of SecretId/SecretKey.

2. Generating a Signature

With the SecretId and SecretKey, a signature can be generated. The following describes how to generate a signature:

Assume that the SecretId and SecretKey are:

- SecretId: AKID*****
- SecretKey: *****

Note: This is just an example. For actual operations, please use your own SecretId and SecretKey.

Take the Cloud Virtual Machine's request to view the instance list (DescribeInstances) as an example. When you invoke this API, the request parameters may be as follows:

Parameter name	Description	Parameter value
Action	Method name	DescribeInstances
SecretId	Key ID	AKID*****
Timestamp	Current timestamp	1465185768
Nonce	Random positive integer	11886
Region	Region where the instance is located	ap-guangzhou
InstanceIds.0	ID of the instance to query	ins-09dx96dg
Offset	Offset	0
Limit	Allowed maximum output	20
Version	API version number	2017-03-12

2.1. Sorting Parameters

First, sort all the request parameters in an ascending lexicographical order (ASCII code) by their names. Notes: (1) Parameters are sorted by their names instead of their values; (2) The parameters are sorted based on ASCII code, not in an alphabetical order or by values. For example, InstanceIds.2 should be arranged after InstanceIds.12. You can complete the sorting process using a sorting function in a programming language, such as the ksort function in PHP. The parameters in the example are sorted as follows:

```
{
  'Action' : 'DescribeInstances',
  'InstanceIds.0' : 'ins-09dx96dg',
  'Limit' : 20,
  'Nonce' : 11886,
  'Offset' : 0,
  'Region' : 'ap-guangzhou',
  'SecretId' : 'AKID*****',
  'Timestamp' : 1465185768,
  'Version': '2017-03-12',
}
```

When developing in another programming language, you can sort these sample parameters and it will work as long as you obtain the same results.

2.2. Concatenating a Request String

This step generates a request string.

Format the request parameters sorted in the previous step into the form of "parameter name"="parameter value". For example, for the Action parameter, its parameter name is "Action" and its parameter value is "DescribeInstances", so it will become Action=DescribeInstances after formatted.

Note: The "parameter value" is the original value but not the value after URL encoding.

Then, concatenate the formatted parameters with "&". The resulting request string is as follows:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0
&Region=ap-guangzhou&SecretId=AKID*****&Timestamp=1465
185768&Version=2017-03-12
```

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

1. HTTP method: POST and GET modes are supported, and GET is used here for the request. Please note that the method name should be in all capital letters.
2. Request server: the domain name of the request to view the list of instances (DescribeInstances) is cvm.tencentcloudapi.com. The actual request domain name varies by the module to which the API belongs. For more information, see the instructions of the specific API.
3. Request path: The request path in the current version of TencentCloud API is fixed to /.
4. Request string: the request string generated in the previous step.

The concatenation rule of the signature original string is: Request method + request host + request path + ? + request string

The concatenation result of the example is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&L
imit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****
*****&Timestamp=1465185768&Version=2017-03-12
```

2.4. Generating a Signature String

This step generates a signature string.

First, use the HMAC-SHA1 algorithm to sign the **signature original string** obtained in the previous step, and

then encode the generated signature using Base64 to obtain the final signature.

The specific code is as follows with the PHP language being used as an example:

```
$secretKey = '*****';
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Timestamp=1465185768&Version=2017-03-12';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
7RAM2xfNMO9EiVTNmPg06MRnCvQ=
```

When developing in another programming language, you can sign and verify the original in the example above and it works as long as you get the same results.

3. Encoding a Signature String

The generated signature string cannot be directly used as a request parameter and must be URL encoded.

For example, if the signature string generated in the previous step is 7RAM2xfNMO9EiVTNmPg06MRnCvQ=, the final signature string request parameter (Signature) is 7RAM2xfNMO9EiVTNmPg06MRnCvQ%3D, which will be used to generate the final request URL.

Note: If your request method is GET, or the request method is POST and the Content-Type is application/x-www-form-urlencoded, then all the request parameter values need to be URL encoded (except the parameter key and the symbol of =) when sending the request. Non-ASCII characters need to be encoded with UTF-8 before URL encoding.

Note: The network libraries of some programming languages automatically URL encode all parameters, in which case there is no need to URL encode the signature string; otherwise, two rounds of URL encoding will cause the signature to fail.

Note: Other parameter values also need to be encoded using [RFC 3986](#). Use %XY in percent-encoding for special characters such as Chinese characters, where "X" and "Y" are hexadecimal characters (0-9 and uppercase A-F), and using lowercase will cause an error.

4. Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error code	Error description
AuthFailure.SignatureExpire	The signature is expired
AuthFailure.SecretIdNotFound	The key does not exist
AuthFailure.SignatureFailure	Signature error
AuthFailure.TokenFailure	Token error
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type)

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Signature=7RAM2xfNMO9EiVTNmPg06MRnCvQ%3D&Timestamp=1465185768&Version=2017-03-12`.

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be

returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";

    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlgorithm());
        mac.init(secretKeySpec);
        byte[] hash = mac.doFinal(s.getBytes(CHARSET));
        return DatatypeConverter.printBase64Binary(hash);
    }

    public static String getStringToSign(TreeMap<String, Object> params) {
        StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
        // When signing, the parameters need to be sorted in lexicographical order. TreeMap
        // is used here to guarantee the correct order.
        for (String k : params.keySet()) {
            s2s.append(k).append("=").append(params.get(k).toString()).append("&");
        }
        return s2s.toString().substring(0, s2s.length() - 1);
    }

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
```



```

StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
// There is no requirement for the order of the parameters in the actual request
URL.
for (String k : params.keySet()) {
    // The request string needs to be URL encoded. As the Key is all in English letters,
    // only the value is URL encoded here.
    url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET))
        .append("&");
}
return url.toString().substring(0, url.length() - 1);
}

public static void main(String[] args) throws Exception {
    TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap enables
    // automatic sorting
    // A random number should be used when actually calling, for example: params.put
    // ("Nonce", new Random().nextInt(Integer.MAX_VALUE));
    params.put("Nonce", 11886); // Common parameter
    // The current time of the system should be used when actually calling, for example:
    // params.put("Timestamp", System.currentTimeMillis() / 1000);
    params.put("Timestamp", 1465185768); // Common parameter
    params.put("SecretId", "AKID*****"); // Common parameter
    params.put("Action", "DescribeInstances"); // Common parameter
    params.put("Version", "2017-03-12"); // Common parameter
    params.put("Region", "ap-guangzhou"); // Common parameter
    params.put("Limit", 20); // Business parameter
    params.put("Offset", 0); // Business parameter
    params.put("InstanceIds.0", "ins-09dx96dg"); // Business parameter
    params.put("Signature", sign(getStringToSign(params), "*****", "HmacSHA1")); // Common parameter
    System.out.println(getUrl(params));
}
}

```

Python

Note: If running in a Python 2 environment, the following requests dependency package must be installed first: `pip install requests`.

```

# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time

```

```
import requests

secret_id = "AKID*****"
secret_key = "*****"

def get_string_to_sign(method, endpoint, params):
    s = method + endpoint + "/"
    query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
    return s + query_str

def sign_str(key, s, method):
    hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
    return base64.b64encode(hmac_str)

if __name__ == '__main__':
    endpoint = "cvm.tencentcloudapi.com"
    data = {
        'Action' : 'DescribeInstances',
        'InstanceIds.0' : 'ins-09dx96dg',
        'Limit' : 20,
        'Nonce' : 11886,
        'Offset' : 0,
        'Region' : 'ap-guangzhou',
        'SecretId' : secret_id,
        'Timestamp' : 1465185768, # int(time.time())
        'Version': '2017-03-12'
    }
    s = get_string_to_sign("GET", endpoint, data)
    data["Signature"] = sign_str(secret_key, s, hashlib.sha1)
    print(data["Signature"])
    # An actual invocation would occur here, which may incur fees after success
    # resp = requests.get("https://" + endpoint, params=data)
    # print(resp.url)
```

Golang

```
package main

import (
    "bytes"
    "crypto/hmac"
    "crypto/sha1"
    "encoding/base64"
    "fmt"
    "sort"
)
```

```
func main() {
secretId := "AKID*****"
secretKey := "*****"
params := map[string]string{
    "Nonce": "11886",
    "Timestamp": "1465185768",
    "Region": "ap-guangzhou",
    "SecretId": secretId,
    "Version": "2017-03-12",
    "Action": "DescribeInstances",
    "InstanceIds.0": "ins-09dx96dg",
    "Limit": "20",
    "Offset": "0",
}

var buf bytes.Buffer
buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")

// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
    keys = append(keys, k)
}
sort.Strings(keys)

for i := range keys {
    k := keys[i]
    buf.WriteString(k)
    buf.WriteString("=")
    buf.WriteString(params[k])
    buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)

hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())

fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}
```

PHP

```
<?php
$secretId = "AKID*****";
$secretKey = "*****";
$params["Nonce"] = 11886;//rand();
$params["Timestamp"] = 1465185768;//time();
$params["Region"] = "ap-guangzhou";
$params["SecretId"] = $secretId;
$params["Version"] = "2017-03-12";
$params["Action"] = "DescribeInstances";
$params["InstanceIds.0"] = "ins-09dx96dg";
$params["Limit"] = 20;
$params["Offset"] = 0;

ksort($params);

$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $params as $key => $value ) {
    $signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);

$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
// $params["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($params);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'

secret_id = "AKID*****"
secret_key = "*****"

method = 'GET'
```

```
endpoint = 'cvm.tencentcloudapi.com'
data = {
  'Action' => 'DescribeInstances',
  'InstanceIds.0' => 'ins-09dx96dg',
  'Limit' => 20,
  'Nonce' => 11886,
  'Offset' => 0,
  'Region' => 'ap-guangzhou',
  'SecretId' => secret_id,
  'Timestamp' => 1465185768, # Time.now.to_i
  'Version' => '2017-03-12',
}
sign = method + endpoint + '/?'
params = []
data.sort.each do |item|
  params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, sign))
puts data['Signature']

# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
# res = Net::HTTP.get_response(uri)
# puts res.body
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Net;
using System.Security.Cryptography;
using System.Text;

public class Application {
  public static string Sign(string signKey, string secret)
  {
    string signRet = string.Empty;
    using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
    {
      byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
      signRet = Convert.ToBase64String(hash);
    }
  }
}
```

```
}
return signRet;
}

public static string MakeSignPlainText(SortedDictionary<string, string> requestParams, string requestMethod, string requestHost, string requestPath)
{
    string retStr = "";
    retStr += requestMethod;
    retStr += requestHost;
    retStr += requestPath;
    retStr += "?";
    string v = "";
    foreach (string key in requestParams.Keys)
    {
        v += string.Format("{0}={1}&", key, requestParams[key]);
    }
    retStr += v.TrimEnd('&');
    return retStr;
}

public static void Main(string[] args)
{
    string SECRET_ID = "AKID*****";
    string SECRET_KEY = "*****";

    string endpoint = "cvm.tencentcloudapi.com";
    string region = "ap-guangzhou";
    string action = "DescribeInstances";
    string version = "2017-03-12";
    double RequestTimestamp = 1465185768;
    // long timestamp = ToTimestamp() / 1000;
    // string requestTimestamp = timestamp.ToString();
    Dictionary<string, string> param = new Dictionary<string, string>();
    param.Add("Limit", "20");
    param.Add("Offset", "0");
    param.Add("InstanceIds.0", "ins-09dx96dg");
    param.Add("Action", action);
    param.Add("Nonce", "11886");
    // param.Add("Nonce", Math.Abs(new Random().Next()).ToString());

    param.Add("Timestamp", RequestTimestamp.ToString());
    param.Add("Version", version);

    param.Add("SecretId", SECRET_ID);
    param.Add("Region", region);
    SortedDictionary<string, string> headers = new SortedDictionary<string, string>(param, StringComparer.Ordinal);
```

```
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);

Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
    Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();

string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
    result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutParam);
Console.WriteLine("GET " + result);
}
}
```

NodeJS

```
const crypto = require('crypto');

function get_req_url(params, endpoint){
    params['Signature'] = escape(params['Signature']);
    const url_strParam = sort_params(params)
    return "https://" + endpoint + "/" + "?" + url_strParam.slice(1);
}

function formatSignString(reqMethod, endpoint, path, strParam){
    let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
    return strSign;
}

function sha1(secretKey, strsign){
    let signMethodMap = {'HmacSHA1': "sha1"};
    let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
    return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}

function sort_params(params) {
```

```
let strParam = "";
let keys = Object.keys(params);
keys.sort();
for (let k in keys) {
  //k = k.replace(/_/g, '.');
  strParam += ("&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}

function main(){
const SECRET_ID = "AKID*****"
const SECRET_KEY = "*****"

const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)

let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;

strParam = sort_params(params)

const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----")

params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
console.log("-----")

const req_url = get_req_url(params, endpoint)
```



```
console.log(params['Signature'])
console.log("-----")
console.log(req_url)
}
main()
```

Responses

最近更新时间：2024-07-19 14:20:56

Response for Successful Requests

For example, when calling CAM API (version: 2017-03-12) to view the status of instances (DescribeInstancesStatus), if the request has succeeded, you may see the response as shown below:

```
{
  "Response": {
    "TotalCount": 0,
    "InstanceStatusSet": [],
    "RequestId": "b5b41468-520d-4192-b42f-595cc34b6c1c"
  }
}
```

- The API will return `Response`, which contains `RequestId`, as long as it processes the request. It does not matter if the request is successful or not.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.
- Except for the fixed fields, all fields are action-specified. For the definitions of action-specified fields, see the corresponding API documentation. In this example, `TotalCount` and `InstanceStatusSet` are the fields specified by the API `DescribeInstancesStatus`. `0` `TotalCount` means that the requester owns 0 CVM instance so the `InstanceStatusSet` is empty.

Response for Failed Requests

If the request has failed, you may see the response as shown below:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please ensure your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

- The presence of the `Error` field indicates that the request has failed. A response for a failed request will include `Error` , `Code` and `Message` fields.
- `Code` is the code of the error that helps you identify the cause and solution. There are two types of error codes so you may find the code in either common error codes or API-specified error codes.
- Message explains the cause of the error. Note that the returned messages are subject to service updates. The information the messages provide may not be up-to-date and should not be the only source of reference.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.

Common Error Codes

If there is an Error field in the response, it means that the API call failed. The Code field in Error indicates the error code. The following table lists the common error codes that all actions can return.

Error Code	Description
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	The key does not exist.
AuthFailure.SignatureExpire	Signature expired.
AuthFailure.SignatureFailure	Signature error.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request does not have CAM authorization.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	Quota limit exceeded.

MissingParameter	A parameter is missing.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTPS request method error. Only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Scheduled Action APIs

ModifyScheduledAction

最近更新时间：2025-07-23 15:50:36

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (ModifyScheduledAction) is used to modify a scheduled task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyScheduledAction.
Version	Yes	String	Common Params . The value used for this API: 2018-
Region	Yes	String	Common Params . For more information, please see regions supported by the product.
ScheduledActionId	Yes	String	Scheduled task ID that needs modification. obtain th scheduled task ID by calling the api DescribeSchedu and retrieving the ScheduledActionId from the returr information.
ScheduledActionName	No	String	Scheduled task name, which can only contain letters numbers, underscores, hyphens ("-"), and decimal p

			a maximum length of 60 bytes and must be unique i scaling group.
MaxSize	No	Integer	The maximum number of instances set for the auto group when the scheduled task is triggered.
MinSize	No	Integer	The minimum number of instances set for the auto s group when the scheduled task is triggered.
DesiredCapacity	No	Integer	The desired number of instances set for the auto sc group when the scheduled task is triggered.
StartTime	No	Timestamp ISO8601	Initial triggered time of the scheduled task. The valu <code>Beijing time</code> (UTC+8) in the format of <code>YYYY-DDThh:mm:ss+08:00</code> according to the <code>ISO8601</code> standard.
EndTime	No	Timestamp ISO8601	End time of the scheduled task. The value is in <code>Bei time</code> (UTC+8) in the format of <code>YYYY-MM-DDThh:mm:ss+08:00</code> according to the <code>ISO8601</code> standard. This parameter and <code>Recurrence</code> need to be spec the same time. After the end time, the scheduled tas longer take effect.
Recurrence	No	String	The repeating mode of the scheduled task. follows t standard Cron format. the Recurrence parameter lim (https://intl.cloud.tencent.com/document/product/3from_cn_redirect=1) consist of 5 fields separated by with the structure: minute, hr, date, month, week. thi parameter must be simultaneously specified with <code>E</code>

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying a Scheduled Task

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyScheduledAction
<Common request parameters>

{
  "DesiredCapacity": 3,
  "MinSize": 0,
  "MaxSize": 5,
  "ScheduledActionName": "scheduled-action-0",
  "StartTime": "2018-08-28T23:00:00+08:00",
  "ScheduledActionId": "asst-chwbkq4c"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "5f6f0f95-216f-4745-a2e6-617897e9cedb"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.CronExpressionIllegal	The cron expression specified for the scheduled task is invalid.
InvalidParameterValue.EndTimeBeforeStartTime	The end time of the scheduled task is before the start time.
InvalidParameterValue.InvalidScheduledActionId	Invalid scheduled action ID.
InvalidParameterValue.InvalidScheduledActionNameIncludelllegalChar	The scheduled task name contains invalid characters.
InvalidParameterValue.ScheduledActionNameDuplicate	The scheduled task name already exists.
InvalidParameterValue.Size	The value of maximum, minimum, or desired number of instances in the auto scaling group is invalid.
InvalidParameterValue.StartTimeBeforeCurrentTime	The start time of the scheduled task is before the current time.
InvalidParameterValue.TimeFormat	Wrong time format.
InvalidParameterValue.TooLong	Too many values.
LimitExceeded.DesiredCapacityLimitExceeded	The desired number of instances exceeds the limit.
LimitExceeded.MaxSizeLimitExceeded	The maximum number of

	instances exceeds the limit.
LimitExceeded.MinSizeLimitExceeded	The minimum number of instances is below the limit.
LimitExceeded.ScheduledActionLimitExceeded	The number of scheduled tasks exceeds the limit.
ResourceNotFound.ScheduledActionNotFound	The specified scheduled task does not exist.

DescribeScheduledActions

最近更新时间：2025-07-23 15:50:36

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DescribeScheduledActions) is used to query the details of one or more scheduled tasks.

- You can query the details of scheduled tasks based on information such as scheduled task ID, scheduled task name, or auto scaling group ID. For more information on filters, see `Filter`.
- If the parameter is empty, a certain number (specified by `Limit` and 20 by default) of scheduled tasks of the current user will be returned.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeScheduledActions.
Version	Yes	String	Common Params . The value used for this API: 2018-04-1
Region	Yes	String	Common Params . For more information, please see the li of regions supported by the product.
ScheduledActionIds.N	No	Array of String	Query by one or more scheduled task ids. you can obtain the scheduled task ID by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/group

			the maximum number of instances per request is 100. parameters ScheduledActionIds and Filters must not be specified simultaneously.
Filters.N	No	Array of Filter	Filter criteria. obtain the scheduled task ID, scheduled task name, and scaling group ID by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/group) • scheduled-action-id – String – required: no – (filter) filter by scheduled task id. • • scheduled-action-name – String – required: no – (filter criteria) filters by scheduled task name. • • auto-scaling-group-id – String – required: no – (filter) filter by auto scaling group id. •
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API overview .
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , see the relevant section in the API overview .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible scheduled tasks.
ScheduledActionSet	Array of ScheduledAction	List of scheduled task details.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying Scheduled Tasks

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeScheduledActions
<Common request parameters>

{
  "ScheduledActionIds": [
    "asst-caa5ha40"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "cc207181-288d-4a39-a1d1-63a5e1ba1d2b",
    "TotalCount": 1,
    "ScheduledActionSet": [
      {
        "ScheduledActionId": "asst-jf898dps",
        "ScheduledActionName": "product-a0-sche0",
        "AutoScalingGroupId": "asg-keqt9eg1",
        "StartTime": "2022-02-22T16:00:00+08:00",
        "Recurrence": "0 0 * * *",
        "EndTime": "2024-02-22T16:00:00+08:00",
        "MaxSize": 15,
        "DesiredCapacity": 1,
        "MinSize": 1,
        "CreatedTime": "2022-02-21T02:19:52Z",
        "ScheduledType": "CRONTAB"
      }
    ]
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameterValue.Filter	Invalid filter.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidFilter	Invalid filter condition.
InvalidParameterValue.InvalidScheduledActionId	Invalid scheduled action ID.
ResourceNotFound.ScheduledActionNotFound	The specified scheduled task does not exist.

DeleteScheduledAction

最近更新时间：2025-07-23 15:50:37

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DeleteScheduledAction) is used to delete the specified scheduled task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteScheduledAction.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ScheduledActionId	Yes	String	Scheduled task ID to be deleted. obtain the scheduled task ID by calling the api DescribeScheduledActions and retrieving the ScheduledActionId from the returned information.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting a scheduled action

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteScheduledAction
<Common request parameters>

{
  "ScheduledActionId": "asst-chwbkq4c"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "cde28f43-67f6-4084-a01e-9623c08ff288"
  }
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidScheduledActionId	Invalid scheduled action ID.
ResourceNotFound.ScheduledActionNotFound	The specified scheduled task does not exist.

CreateScheduledAction

最近更新时间：2025-07-23 15:50:37

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (CreateScheduledAction) is used to create a scheduled task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateScheduledAction.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupIid	Yes	String	Scaling group ID. obtain available scaling group ids in the following ways: - Query the scaling group ID by logging in to the console. . - Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and

			retrieving the AutoScalingGroupId from the return information. .
ScheduledActionName	Yes	String	Scheduled task name, which can only contain letters, numbers, underscores, hyphens ("-"), and decimal points with a maximum length of 60 bytes and must be unique in an auto scaling group.
MaxSize	Yes	Integer	The maximum number of instances set for the auto scaling group when the scheduled task is triggered.
MinSize	Yes	Integer	The minimum number of instances set for the auto scaling group when the scheduled task is triggered.
DesiredCapacity	Yes	Integer	The desired number of instances set for the auto scaling group when the scheduled task is triggered.
StartTime	Yes	Timestamp ISO8601	Initial triggered time of the scheduled task. The value is in <code>Beijing time</code> (UTC+8) in the format of <code>YYYY-MM-DDThh:mm:ss+08:00</code> according to the <code>ISO8601</code> standard.
EndTime	No	Timestamp ISO8601	End time of the scheduled task. The value is in <code>Beijing time</code> (UTC+8) in the format of <code>YYYY-MM-DDThh:mm:ss+08:00</code> according to the <code>ISO8601</code> standard. This parameter and <code>Recurrence</code> need to be specified at the same time. After the end time, the scheduled task will no longer take effect.
Recurrence	No	String	The repeating mode of a scheduled task follows the standard Cron format. the Recurrence parameter limits in a scheduled task consist of 5 fields separated by spaces, with the structure: minute, hour, date, month, week. this parameter must be simultaneously specified with <code>EndTime</code> .

3. Output Parameters

Parameter Name	Type	Description
ScheduledActionId	String	Scheduled task ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a One-Time Execution Scheduled Task

This example shows you how to create a scheduled task to adjust the scaling group's maximum instance count, minimum number of instances and expected number of instances to 10, 4 and 6 at the specified time (23:00 on August 28, 2018 UTC+8).

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateScheduledAction
<Common request parameters>

{
  "DesiredCapacity": 6,
  "AutoScalingGroupId": "asg-2nr9xh8h",
  "MinSize": 4,
  "MaxSize": 10,
  "ScheduledActionName": "scheduled-action-0",
  "StartTime": "2018-08-28T23:00:00+08:00"
}
```

Output Example

```
{
  "Response": {
    "ScheduledActionId": "asst-chwbkq4c",
    "RequestId": "193a710f-8dbf-46aa-8b4a-195532244df8"
  }
}
```

```
}  
}
```

Example2 Creating a Scheduled Task with Repeated Execution

This example shows you how to create a scheduled task that adjusts the scaling group's maximum instance count, minimum number of instances and expected number of instances to 7, 2 and 3 daily at 23:00 UTC+8 starting from August 28, 2018, and ends after 00:00 UTC+8 on January 1, 2019.

Input Example

```
POST / HTTP/1.1  
Host: as.intl.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: CreateScheduledAction  
<Common request parameters>  
  
{  
  "Recurrence": "0 23 * * *",  
  "DesiredCapacity": 3,  
  "AutoScalingGroupId": "asg-2nr9xh8h",  
  "MinSize": 2,  
  "MaxSize": 7,  
  "ScheduledActionName": "scheduled-action-1",  
  "StartTime": "2018-08-28T23:00:00+08:00",  
  "EndTime": "2019-01-01T00:00:00+08:00"  
}
```

Output Example

```
{  
  "Response": {  
    "ScheduledActionId": "asst-le3us530",  
    "RequestId": "502fd6fa-44ff-4c79-b77e-ee20f72bddc0"  
  }  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.CronExpressionIllegal	The cron expression specified for the scheduled task is invalid.
InvalidParameterValue.EndTimeBeforeStartTime	The end time of the scheduled task is before the start time.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidScheduledActionNameIncludelllegalChar	The scheduled task name contains invalid characters.
InvalidParameterValue.ScheduledActionNameDuplicate	The scheduled task name already exists.
InvalidParameterValue.Size	The value of maximum, minimum, or desired number of instances in the auto scaling group is invalid.
InvalidParameterValue.StartTimeBeforeCurrentTime	The start time of the scheduled

	task is before the current time.
InvalidParameterValue.TimeFormat	Wrong time format.
InvalidParameterValue.TooLong	Too many values.
LimitExceeded.DesiredCapacityLimitExceeded	The desired number of instances exceeds the limit.
LimitExceeded.MaxSizeLimitExceeded	The maximum number of instances exceeds the limit.
LimitExceeded.MinSizeLimitExceeded	The minimum number of instances is below the limit.
LimitExceeded.QuotaNotEnough	You are short of the quota.
LimitExceeded.ScheduledActionLimitExceeded	The number of scheduled tasks exceeds the limit.
MissingParameter	Parameter missing.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.

Alarm Trigger Policy APIs

ModifyScalingPolicy

最近更新时间：2025-07-23 15:51:03

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (ModifyScalingPolicy) is used to modify an alarm trigger policy.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyScalingPolicy.
Version	Yes	String	Common Params . The value used for this API: 19.
Region	Yes	String	Common Params . For more information, please list of regions supported by the product.
AutoScalingPolicyId	Yes	String	Specifies the alert policy ID. obtain the alert policy ID by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling) or calling the api DescribeScalingPolicies (https://intl.cloud.tencent.com/document/api/335/19)

			from_cn_redirect=1), and retrieve the AutoScaling from the returned information.
ScalingPolicyName	No	String	The Alarm policy name must be unique in your the name length cannot exceed 60 characters. only supports chinese, english, digits, underscores hyphens, and decimal separators.
AdjustmentType	No	String	The method to adjust the desired capacity after is triggered. It's only available when <code>ScalingPolicyType</code> is <code>Simple</code> . Valid values: <code>CHANGE_IN_CAPACITY</code>: Increase or decrease desired capacity <code>EXACT_CAPACITY</code>: Adjust to the specified capacity <code>PERCENT_CHANGE_IN_CAPACITY</code>: Adjust capacity by percentage
AdjustmentValue	No	Integer	The adjustment value for the expected number instances after an alarm is triggered. It applies simple policies. - When AdjustmentType is <code>CHANGE_IN_CAPACITY</code>, positive AdjustmentValue indicates an increase number of instances after the alarm is triggered, negative AdjustmentValue indicates a decrease number of instances after the alarm is triggered - When AdjustmentType is <code>EXACT_CAPACITY</code>, AdjustmentValue represents the expected number of instances after the alarm is triggered, which should be greater than or equal to 0. - When AdjustmentType is <code>PERCENT_CHANGE_IN_CAPACITY</code>, a positive AdjustmentValue indicates an increase in the number of instances by percentage after the alarm is triggered, a negative AdjustmentValue indicates a decrease number of instances by percentage after the alarm is triggered. The unit is: %.
Cooldown	No	Integer	Cooldown period (in seconds). It's only available when <code>ScalingPolicyType</code> is <code>Simple</code> .
MetricAlarm	No	MetricAlarm	Alarm monitoring metric. It's only available when <code>ScalingPolicyType</code> is <code>Simple</code> .
PredefinedMetricType	No	String	Preset monitoring item. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code> .

			values: - ASG_AVG_CPU_UTILIZATION: Average CPU - ASG_AVG_LAN_TRAFFIC_OUT: Average pri bandwidth out - ASG_AVG_LAN_TRAFFIC_IN: Average privat bandwidth in - ASG_AVG_WAN_TRAFFIC_OUT: Average pu bandwidth out - ASG_AVG_WAN_TRAFFIC_IN: Average publi bandwidth in
TargetValue	No	Integer	Target value. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKIN</code> ranges: <code>ASG_AVG_CPU_UTILIZATION</code> (in %): [1, ' <code>ASG_AVG_LAN_TRAFFIC_OUT</code> (in Mbps): <code>ASG_AVG_LAN_TRAFFIC_IN</code> (in Mbps): > <code>ASG_AVG_WAN_TRAFFIC_OUT</code> (in Mbps): <code>ASG_AVG_WAN_TRAFFIC_IN</code> (in Mbps): >
EstimatedInstanceWarmup	No	Integer	Instance warm-up period (in seconds). It's only when <code>ScalingPolicyType</code> is <code>TARGET_TR</code> Value range: 0–3600.
DisableScaleIn	No	Boolean	Whether to disable scale-in. It's only available <code>ScalingPolicyType</code> is <code>TARGET_TRACKIN</code> values: <code>true</code> : Scaling in is not allowed. <code>false</code> : Allows both scale-out and scale-
NotificationUserGroupIds.N	No	Array of String	This parameter is diused. Please use CreateNotificationConfiguration instead. Notification group ID, which is the set of user ,

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying the Simple Alarm Triggering Policy

This example shows you how to specify the policy ID to modify the attributes of a simple policy.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyScalingPolicy
<Common request parameters>

{
  "AutoScalingPolicyId": "asp-iir70sxv",
  "Cooldown": 60,
  "ScalingPolicyName": "cpu_policy_test",
  "AdjustmentType": "CHANGE_IN_CAPACITY",
  "MetricAlarm": {
    "Period": 60,
    "ContinuousTime": 5,
    "ComparisonOperator": "GREATER_THAN",
    "Statistic": "AVERAGE",
    "Threshold": 50,
    "MetricName": "CPU_UTILIZATION"
  },
  "AdjustmentValue": "1"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "91413a64-9587-486b-aef4-9aba5e8a0068"
  }
}
```

Example2 Modifying the Target Tracking Alarm Triggering Policy

This example shows you how to specify the policy ID to modify the attributes of a target tracking policy.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyScalingPolicy
<Common request parameters>

{
  "AutoScalingPolicyId": "asp-9uroe7ta",
  "ScalingPolicyName": "target-trackiing-test-policy",
  "DisableScaleIn": false,
  "EstimatedInstanceWarmup": 300,
  "TargetValue": 60,
  "PredefinedMetricType": "ASG_AVG_CPU_UTILIZATION"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "881a6752-55e8-4485-878a-a80065732a9f"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingPolicyId	Invalid alarm-triggered policy ID.
InvalidParameterValue.InvalidNotificationUserGroupId	The notification group ID should be a numeric string.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.ScalingPolicyNameDuplicate	The alarm policy name already exists.
InvalidParameterValue.ThresholdOutOfRange	The specified threshold must be within the valid range.
InvalidParameterValue.UserGroupIdNotFound	The user group does not exist.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.ScalingPolicyNotFound	The alarm policy does not exist.

ExecuteScalingPolicy

最近更新时间：2025-07-23 15:51:03

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to execute a scaling policy.

- The scaling policy can be executed based on the scaling policy ID.
- The policy cannot be executed if there are ongoing scaling actions on the scaling group.
- Executing a target tracking policy is not supported.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ExecuteScalingPolicy.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingPolicyId	Yes	String	Alarm scaling policy ID. target tracking policy is unsupported. the alert policy type can be obtained via

			the <code>ScalingPolicyType</code> parameter in the api response of DescribeScalingPolicies .
HonorCooldown	No	Boolean	Whether to check if the auto scaling group is in the cooldown period. Default value: false
TriggerSource	No	String	Source that triggers the scaling policy. Valid values: API and CLOUD_MONITOR. Default value: API. The value <code>CLOUD_MONITOR</code> is specific to the Cloud Monitor service.

3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Triggering a scaling policy

This example shows you how to trigger an alarm scaling policy.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ExecuteScalingPolicy
<Common request parameters>

{
  "HonorCooldown": "false",
  "AutoScalingPolicyId": "asp-f59pppuh"
}
```

Output Example

```
{
  "Response": {
    "ActivityId": "asa-o4v87ae9",
    "RequestId": "116213d6-2269-44cc-af76-c4a8dc7dbdf9"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingPolicyId	Invalid alarm-triggered policy ID.

InvalidParameterValue.TargetTrackingScalingPolicy	Executing a target tracking policy is not supported.
ResourceInUse.AutoScalingGroupNotActive	The scaling group is disabled.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.ScalingPolicyNotFound	The alarm policy does not exist.
ResourceUnavailable.AutoScalingGroupAbnormalStatus	The auto scaling group is exceptional.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.

DescribeScalingPolicies

最近更新时间：2025-07-23 15:51:04

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DescribeScalingPolicies) is used to query alarm trigger policies.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeScalingPolicies.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingPolicyIds.N	No	Array of String	Queries by one or more alarm policy IDs in the format of asp-i9vkg894. The maximum number of instances per request is 100. This parameter does not support specifying both <code>AutoScalingPolicyIds</code> and <code>Filters</code> at the same time.
Filters.N	No	Array	Filter criteria

		of Filter	• auto-scaling-policy-id – String – required: no – (filter) filter by alert policy id. • • auto-scaling-group-id – String – required: no – (filter) filter by auto scaling group id. obtain the scaling group id by logging in to the console or calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupid from the returned information. • • scaling-policy-name – String – required: no – (filter condition) filters by Alarm policy name. • • scaling-policy-type – String – required: no – (filter criteria) filters by Alarm policy type. valid values: SIMPLE, TARGET_TRACKING, representing SIMPLE policy and TARGET TRACKING policy respectively. • The maximum number of <code>Filters</code> per request is 10, and that of <code>Filter.Values</code> is 5. the <code>AutoScalingPolicyIds</code> and <code>Filters</code> parameters cannot be specified simultaneously.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , see the relevant section in the API overview .
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API overview .

3. Output Parameters

Parameter Name	Type	Description
ScalingPolicySet	Array of ScalingPolicy	List of AS alarm trigger policy details.
TotalCount	Integer	Number of eligible notifications.

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
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4. Example

Example1 Querying a simple policy

This example shows you how to query a simple alarm triggering policy by a specific policy ID.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeScalingPolicies
<Common request parameters>

{
  "AutoScalingPolicyIds": [
    "asp-7mme2ule"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ScalingPolicySet": [
      {
        "EstimatedInstanceWarmup": null,
        "MetricAlarms": null,
        "AutoScalingGroupId": "asg-9dn1a5y6",
        "PredefinedMetricType": null,
        "ScalingPolicyType": "SIMPLE",
        "DisableScaleIn": null,
        "AutoScalingPolicyId": "asp-7mme2ule",
        "NotificationUserGroupIds": [],
        "Cooldown": 666,
        "ScalingPolicyName": "simple_policy_test",
        "AdjustmentType": "CHANGE_IN_CAPACITY",
        "MetricAlarm": {
```

```
"ComparisonOperator": "GREATER_THAN",
"Period": 60,
"ContinuousTime": 5,
"Threshold": 20,
"Statistic": "AVERAGE",
"PreciseThreshold": 20,
"MetricName": "CPU_UTILIZATION"
},
"TargetValue": null,
"AdjustmentValue": 3
}
],
"RequestId": "297c6ed3-aa1c-43f4-be0f-10e513a86e6e"
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
------------	-------------

InternalServerError.CallMonitorError	Monitor API call failed.
InternalServerError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidAutoScalingPolicyId	Invalid alarm-triggered policy ID.
InvalidParameterValue.InvalidFilter	Invalid filter condition.
LimitExceeded	The quota limit is exceeded.

DeleteScalingPolicy

最近更新时间：2025-07-23 15:51:04

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DeleteScalingPolicy) is used to delete an alarm trigger policy.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteScalingPolicy.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingPolicyId	Yes	String	The Alarm policy ID to be deleted. you can obtain the Alarm policy ID by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/group) or calling the api DescribeScalingPolicies and retrieving the AutoScalingPolicyId from the returned information.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting an alarm policy

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteScalingPolicy
<Common request parameters>

{
  "AutoScalingPolicyId": "asp-lnfqbsq"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "56e8b8fc-6043-4b3e-87b6-1a0be1c58f01"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingPolicyId	Invalid alarm-triggered policy ID.
ResourceNotFound.ScalingPolicyNotFound	The alarm policy does not exist.

CreateScalingPolicy

最近更新时间：2025-07-23 15:51:05

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (CreateScalingPolicy) is used to create an alarm trigger policy.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateScalingPolicy.
Version	Yes	String	Common Params . The value used for this API: 19.
Region	Yes	String	Common Params . For more information, please list of regions supported by the product.
AutoScalingGroupIid	Yes	String	Scaling group ID. obtain the scaling group ID b to the console (https://console.intl.cloud.tencent.com/autosca or calling the api DescribeAutoScalingGroups (https://intl.cloud.tencent.com/document/api/ from_cn_redirect=1), and retrieve AutoScalingC the returned information.

ScalingPolicyName	Yes	String	The Alarm policy name must be unique in your the name length cannot exceed 60 characters. only supports chinese, english, digits, underscores hyphens, and decimal points.
ScalingPolicyType	No	String	Alarm trigger policy type. default: SIMPLE. valid values: <code>SIMPLE</code> : a simple policy. <code>TARGET_TRACKING</code> : a target tracking policy.
AdjustmentType	No	String	After an Alarm is triggered, specifies the method of modifying the expected number of instances. valid values: <code>CHANGE_IN_CAPACITY</code>: increase or decrease the expected number of instances <code>EXACT_CAPACITY</code>: adjust to the expected number of instances <code>PERCENT_CHANGE_IN_CAPACITY</code>: adjust the expected instance number by percent
AdjustmentValue	No	Integer	Adjustment value for the expected number of instances after an Alarm is triggered, which is applicable to simple policies and required in simple policy scenarios. - When AdjustmentType is <code>CHANGE_IN_CAPACITY</code>, a positive AdjustmentValue indicates an increase in instances after Alarm trigger, while a negative value indicates a decrease in instances after Alarm trigger. - When AdjustmentType is set to <code>EXACT_CAPACITY</code>, the value of AdjustmentValue indicates the new desired number of instances after the Alarm is triggered. The value must be at least 0. - When AdjustmentType is set to <code>PERCENT_CHANGE_IN_CAPACITY</code>, a positive AdjustmentValue indicates an increase in the number of instances by a percentage after the alarm is triggered, while a negative value indicates a decrease in the number of instances by a percentage after the alarm is triggered. Unit: %.
Cooldown	No	Integer	Cooldown period (in seconds). This parameter

			applicable to a simple policy. Default value: 30
MetricAlarm	No	MetricAlarm	Alarm monitoring metric, apply only to simple p required in the scenario of simple policy.
PredefinedMetricType	No	String	Predefined monitoring item, applicable only to tracking policies. required in the scenario. valu - ASG_AVG_CPU_UTILIZATION: average cpu - ASG_AVG_LAN_TRAFFIC_OUT: specifies th outbound private network bandwidth. - ASG_AVG_LAN_TRAFFIC_IN: average inbou network bandwidth - ASG_AVG_WAN_TRAFFIC_OUT: specifies th outbound public network bandwidth. - ASG_AVG_WAN_TRAFFIC_IN: average inbou network bandwidth
TargetValue	No	Integer	Target value, applicable only to the target trac required in the scenario. - ASG_AVG_CPU_UTILIZATION: value range: unit: %. - ASG_AVG_LAN_TRAFFIC_OUT: value range Mbps. - ASG_AVG_LAN_TRAFFIC_IN: value range: > Mbps. - ASG_AVG_WAN_TRAFFIC_OUT: value range Mbps. - ASG_AVG_WAN_TRAFFIC_IN: value range: > Mbps.
EstimatedInstanceWarmup	No	Integer	Instance warm-up period (in seconds). It is onl when <code>ScalingPolicyType</code> is <code>TARGET_TR</code> Value range: 0–3600. Default value: 300.
DisableScaleIn	No	Boolean	Whether to disable scale-in, which is applicabl target tracking policies. Default value: false. Va true: Target tracking policies trigger only sc

			false: Target tracking policies trigger both scale-out and scale-in.
NotificationUserGroupIds.N	No	Array of String	This parameter is diused. Please use CreateNotificationConfiguration instead. Notification group ID, which is the set of user

3. Output Parameters

Parameter Name	Type	Description
AutoScalingPolicyId	String	Alarm trigger policy ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a Simple Policy: Average CPU Utilization

This example shows you how to increase the expected instance number by 1 when the average CPU utilization exceeds 50% for five consecutive times within 1 minute.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateScalingPolicy
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "Cooldown": 60,
  "ScalingPolicyType": "SIMPLE",
  "ScalingPolicyName": "cpu_policy_test",
  "AdjustmentType": "CHANGE_IN_CAPACITY",
  "MetricAlarm": {
    "Period": 60,
    "ContinuousTime": 5,
```

```
"ComparisonOperator": "GREATER_THAN",
"Statistic": "AVERAGE",
"Threshold": 50,
"MetricName": "CPU_UTILIZATION"
},
"AdjustmentValue": 1
}
```

Output Example

```
{
  "Response": {
    "AutoScalingPolicyId": "asp-iir70sxv",
    "RequestId": "fb02c8bd-5f38-4786-91b6-0c6e06a88832"
  }
}
```

Example2 Creating a Simple Policy: Average Memory Utilization

This example shows you how to decrease the expected instance number by 50% when the average CPU utilization falls below 35% for five consecutive times within 1 minute.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateScalingPolicy
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "Cooldown": 300,
  "ScalingPolicyType": "SIMPLE",
  "ScalingPolicyName": "mem_policy_test",
  "AdjustmentType": "PERCENT_CHANGE_IN_CAPACITY",
  "MetricAlarm": {
    "Period": 60,
    "ContinuousTime": 5,
    "ComparisonOperator": "LESS_THAN",
    "Statistic": "AVERAGE",
    "Threshold": 50,
    "MetricName": "MEM_UTILIZATION"
  },
}
```

```
"AdjustmentValue": -50
}
```

Output Example

```
{
  "Response": {
    "AutoScalingPolicyId": "asp-f59pppuh",
    "RequestId": "116213d6-2269-44cc-af76-c4a8dc7dbdf9"
  }
}
```

Example3 Creating a Target Tracking Policy: Average CPU Utilization

This example shows you how to keep the average CPU utilization of the scaling group close to 60%, how to set the parameter for scale-out instance preheating to 300 after the alarm is triggered, and how to set the disabling scale-in parameter value to false.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateScalingPolicy
<Common request parameters>

{
  "AutoScalingGroupId": "asg-9dn1a5y6",
  "ScalingPolicyName": "cpu_target_tracking_test",
  "ScalingPolicyType": "TARGET_TRACKING",
  "PredefinedMetricType": "ASG_AVG_CPU_UTILIZATION",
  "EstimatedInstanceWarmup": 300,
  "DisableScaleIn": false,
  "TargetValue": 60
}
```

Output Example

```
{
  "Response": {
    "AutoScalingPolicyId": "asp-ljr51ssq",
    "RequestId": "58a8ac17-e864-4bf6-81c7-c5dc63b0057d"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.CallMonitorError	Monitor API call failed.
InternalServerError.CallNotificationError	The notification service API call failed.
InternalServerError.RequestError	An internal request error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidNotificationUserGroupId	The notification group ID should be a numeric string.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.Range	The value is outside the specified range.

InvalidParameterValue.ScalingPolicyNameDuplicate	The alarm policy name already exists.
InvalidParameterValue.ThresholdOutOfRange	The specified threshold must be within the valid range.
InvalidParameterValue.TooLong	Too many values.
InvalidParameterValue.UserGroupIdNotFound	The user group does not exist.
LimitExceeded.QuotaNotEnough	You are short of the quota.
LimitExceeded.TargetTrackingScalingPolicy	Only one target tracking policy can be created for a scaling group.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.

Notification APIs

ModifyNotificationConfiguration

最近更新时间：2025-07-23 15:50:51

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to modify a notification policy.

- The receiver type of the notification policy cannot be modified.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyNotificationConfiguration.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingNotificationId	Yes	String	Specifies the notification ID that needs modification. get the notification ID by logging in to the console or calling the api DescribeNotificationConfigurations and getting

			AutoScalingNotificationId from the returned information.
NotificationTypes.N	No	Array of String	Notification type, i.e., the set of types of notifications to be subscribed to. Value range: - SCALE_OUT_SUCCESSFUL: scale-out succeeded - SCALE_OUT_FAILED: scale-out failed - SCALE_IN_SUCCESSFUL: scale-in succeeded - SCALE_IN_FAILED: scale-in failed - REPLACE_UNHEALTHY_INSTANCE_SUCCESSFUL: unhealthy instance replacement succeeded - REPLACE_UNHEALTHY_INSTANCE_FAILED: unhealthy instance replacement failed
NotificationUserGroupIds.N	No	Array of String	Notification GROUP ID, which is the USER GROUP ID collection. USER GROUP ID can be accessed through ListGroups . this parameter is valid only when TargetType is USER_GROUP .
QueueName	No	String	The TDMQ CMQ QUEUE name. the original CMQ is offline . currently, only TDMQ CMQ is recommended for use. this parameter is valid only when TargetType is TDMQ_CMQ_QUEUE .
TopicName	No	String	The TDMQ CMQ TOPIC name. original CMQ is offline . currently, only TDMQ CMQ is recommended for use. this parameter is valid only when TargetType is TDMQ_CMQ_TOPIC .

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying an event notification

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyNotificationConfiguration
<Common request parameters>

{
  "NotificationUserGroupIds": [
    "1678"
  ],
  "NotificationTypes": [
    "SCALE_IN_FAILED",
    "SCALE_IN_SUCCESSFUL"
  ],
  "AutoScalingNotificationId": "asn-2sestqbr"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "52e32a5b-5f69-4d48-a3f1-f2fea5c43a70"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.ConflictNotificationTarget	Conflicting notification receiver type.
InvalidParameterValue.InvalidAutoScalingNotificationId	Invalid notification ID.
InvalidParameterValue.InvalidNotificationUserGroupId	The notification group ID should be a numeric string.
InvalidParameterValue.UserGroupIdNotFound	The user group does not exist.
ResourceNotFound.AutoScalingNotificationNotFound	The notification does not exist.
ResourceNotFound.CmqQueueNotFound	The specified CMQ queue does not exist.
ResourceNotFound.TDMQCMQQueueNotFound	The TDMQ–CMQ queue doesn't exist.
ResourceNotFound.TDMQCMQTopicNotFound	The TDMQ–CMQ topic doesn't exist.
ResourceUnavailable.TDMQCMQTopicHasNoSubscriber	The TDMQ–CMQ topic is not subscribed.

DescribeNotificationConfigurations

最近更新时间：2025-07-23 15:50:52

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DescribeNotificationConfigurations) is used to query the information of one or more notifications.

You can query the details of notifications based on information such as notification ID and auto scaling group ID. For more information on filters, see `Filter` .

If the parameter is empty, a certain number (specified by `Limit` and 20 by default) of notifications of the current user will be returned.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeNotificationConfigurations.
Version	Yes	String	Common Params . The value used for this API: 2018-08-01.
Region	Yes	String	Common Params . For more information, please see of regions supported by the product.
AutoScalingNotificationIds.N	No	Array of String	Query by one or more notification ids. the list leng is 100. you can obtain the notification ID by logging the console (https://console.intl.cloud.tencent.com/autoscaling

			parameters <code>AutoScalingNotificationIds</code> and <code>Filters</code> be specified simultaneously.
<code>Filters.N</code>	No	Array of Filter	Filter criteria <code>auto-scaling-notification-id</code> – String – required: (filter) filter by notification id. <code>auto-scaling-group-id</code> – String – required: no - filter by auto scaling group id. you can obtain the : group id by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling or calling the api <code>DescribeAutoScalingGroups</code> (https://intl.cloud.tencent.com/document/api/377, <code>from_cn_redirect=1</code>) and retrieving the <code>AutoScaling</code> from the returned information. The maximum number of <code>Filters</code> per request and that of <code>Filter.Values</code> is 5. the <code>AutoScalingNotificationIds</code> and <code>Filter</code> parameters cannot be specified simultaneously.
<code>Limit</code>	No	Integer	Number of returned results. Default value: 20. Max value: 100. For more information on <code>Limit</code> , see relevant section in the API overview .
<code>Offset</code>	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API over

3. Output Parameters

Parameter Name	Type	Description
<code>TotalCount</code>	Integer	Number of eligible notifications.
<code>AutoScalingNotificationSet</code>	Array of AutoScalingNotification	List of AS event notification details.
<code>RequestId</code>	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a <code>RequestId</code>). <code>RequestId</code> is required for locating a problem.

4. Example

Example1 Querying notifications

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeNotificationConfigurations
<Common request parameters>

{
  "AutoScalingNotificationIds": [
    "asn-9bhwxqh"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "AutoScalingNotificationSet": [
      {
        "TargetType": "USER_GROUP",
        "TopicName": "topicname",
        "QueueName": "queuenam",
        "AutoScalingGroupId": "asg-2umy3jbd",
        "NotificationUserGroupIds": [
          "1678"
        ],
        "NotificationTypes": [
          "SCALE_OUT_SUCCESSFUL"
        ],
        "AutoScalingNotificationId": "asn-9bhwxqh"
      }
    ],
    "RequestId": "0539a5fc-14b8-4591-9fe2-faee32031a64"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterConflict	The two parameters specified conflict and cannot co-exist.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidAutoScalingNotificationId	Invalid notification ID.
InvalidParameterValue.InvalidFilter	Invalid filter condition.

DeleteNotificationConfiguration

最近更新时间：2025-07-23 15:50:52

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DeleteNotificationConfiguration) is used to delete the specified notification.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteNotificationConfiguration.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingNotificationId	No	String	The notification ID to be deleted. this is currently a required parameter. you can obtain the notification ID by logging in to the console (https://console.intl.cloud.tencent.com/autoscaling/group) or calling the api DescribeNotificationConfigurations at retrieving the AutoScalingNotificationId from the returned information.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting a notification

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteNotificationConfiguration
<Common request parameters>

{
  "AutoScalingNotificationId": "asn-2sestqbr"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "12868c8c-b1a3-4b66-a03d-1a3cacadca1d"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidAutoScalingNotificationId	Invalid notification ID.
ResourceNotFound.AutoScalingNotificationNotFound	The notification does not exist.

CreateNotificationConfiguration

最近更新时间：2025-07-23 15:50:53

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to create a notification policy.

When the notification is sent to a CMQ topic or queue, the following contents are included:

```
{
  "Service": "Tencent Cloud Auto Scaling",
  "CreatedTime": "2021-10-11T10:15:11Z", // Activity creation time
  "AppId": "100000000",
  "ActivityId": "asa-fznnvrja", // Scaling activity ID
  "AutoScalingGroupId": "asg-pc2oqu2z", // Scaling group ID
  "ActivityType": "SCALE_OUT", // Scaling activity type
  "StatusCode": "SUCCESSFUL", // Scaling activity result
  "Description": "Activity was launched in response to a difference between desired
capacity and actual capacity,
scale out 1 instance(s).", // Scaling activity description
  "StartTime": "2021-10-11T10:15:11Z", // Activity starting time
  "EndTime": "2021-10-11T10:15:32Z", // Activity ending time
  "DetailedStatusMessageSet": [ // A collection of failed attempts during the scaling
process (Failed attempts are allowed in a successful scaling activity)
  {
    "Code": "InvalidInstanceType",
    "Zone": "ap-guangzhou-2",
    "InstanceId": "",
    "InstanceChargeType": "POSTPAID_BY_HOUR",
    "SubnetId": "subnet-4t5mgeuu",
    "Message": "The specified instance type `S5.LARGE8` is invalid in `subnet-4t5mgeuu`, `ap-guangzhou-2`.",
    "InstanceType": "S5.LARGE8",
  }
]
```

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateNotificationConfiguration.
Version	Yes	String	Common Params . The value used for this API: 2018-19.
Region	Yes	String	Common Params . For more information, please see list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain the scaling group ID by logg to the console (https://console.intl.cloud.tencent.com/autoscaling/ or calling the api DescribeAutoScalingGroups (https://intl.cloud.tencent.com/document/api/377/2 from_cn_redirect=1), and retrieve AutoScalingGroupk the returned information.
NotificationTypes.N	Yes	Array of String	Notification type, i.e., the set of types of notification: be subscribed to. Value range: - SCALE_OUT_SUCCESSFUL: scale-out succeeded - SCALE_OUT_FAILED: scale-out failed - SCALE_IN_SUCCESSFUL: scale-in succeeded - SCALE_IN_FAILED: scale-in failed - REPLACE_UNHEALTHY_INSTANCE_SUCCESSFU unhealthy instance replacement succeeded - REPLACE_UNHEALTHY_INSTANCE_FAILED: unhe instance replacement failed
NotificationUserGroupIds.N	No	Array of String	Notification GROUP ID, which is the USER GROUP ID collection. USER GROUP ID can be accessed through ListGroups . this parameter is valid only when Target` is USER_GROUP.

TargetType	No	String	Notification receiver type. values as follows:. • USER_GROUP: user group • TDMQ_CMQ_TOPIC: tdmq cmq topic • TDMQ_CMQ_QUEUE: tdmq cmq queue • CMQ_QUEUE: CMQ QUEUE. CMQ is offline. currently TDMQ CMQ is recommended. • CMQ_TOPIC: specifies the CMQ TOPIC. CMQ is c currently, TDMQ CMQ is recommended for use. Default value: <code>USER_GROUP</code> .
QueueName	No	String	TDMQ CMQ QUEUE name. this field is required if TargetType value is <code>TDMQ_CMQ_QUEUE</code> .
TopicName	No	String	TDMQ CMQ TOPIC name. this field is required when <code>TargetType</code> is <code>TDMQ_CMQ_TOPIC</code> .

3. Output Parameters

Parameter Name	Type	Description
AutoScalingNotificationId	String	Notification ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating the notification policy for scale-out results

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
```

```
X-TC-Action: CreateNotificationConfiguration
<Common request parameters>

{
  "AutoScalingGroupId": "asg-12wjuh0s",
  "NotificationUserGroupIds": [
    "1678"
  ],
  "NotificationTypes": [
    "SCALE_OUT_FAILED",
    "SCALE_OUT_SUCCESSFUL"
  ]
}
```

Output Example

```
{
  "Response": {
    "AutoScalingNotificationId": "asn-2sestqbr",
    "RequestId": "fb02c8bd-5f38-4786-91b6-0c6e06a88832"
  }
}
```

Example2 Creating a policy to send notifications to the specified message queue for scale-out failures

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateNotificationConfiguration
<Common request parameters>

{
  "AutoScalingGroupId": "asg-pc2oqu2z",
  "NotificationTypes": [
    "SCALE_OUT_FAILED"
  ],
  "TargetType": "CMQ_QUEUE",
  "QueueName": "test-queue"
}
```

Output Example

```
{
  "Response": {
    "AutoScalingNotificationId": "asn-03kyokwk",
    "RequestId": "8565bcc0-7b02-4e9c-ae9f-27e3d3d73e12"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.ConflictNotificationTarget	Conflicting notification receiver type.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidNotificationUserGroupId	The notification group ID should be a numeric string.

InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.UserGroupIdNotFound	The user group does not exist.
LimitExceeded	The quota limit is exceeded.
LimitExceeded.QuotaNotEnough	You are short of the quota.
MissingParameter	Parameter missing.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.CmqQueueNotFound	The specified CMQ queue does not exist.
ResourceNotFound.TDMQCMQQueueNotFound	The TDMQ-CMQ queue doesn't exist.
ResourceNotFound.TDMQCMQTopicNotFound	The TDMQ-CMQ topic doesn't exist.
ResourceUnavailable.CmqTopicHasNoSubscriber	There are no subscribers for the specified CMQ topic.
ResourceUnavailable.TDMQCMQTopicHasNoSubscriber	The TDMQ-CMQ topic is not subscribed.

Lifecycle Hook APIs

UpgradeLifecycleHook

最近更新时间：2025-07-23 15:50:53

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to upgrade the lifecycle hook.

- This API is used to upgrade the lifecycle hook, adopting a "comprehensive overwrite" style. Regardless of how the previous parameters were set, it uniformly uses the new configurations for API parameters. For optional fields, if they are not filled in, default values will be used.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpgradeLifecycleHook.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.

LifecycleHookId	Yes	String	Lifecycle hook ID. you can call the api DescribeLifecycleHooks and retrieve the LifecycleHookId from the returned information to obtain the lifecycle hook ID.
LifecycleHookName	Yes	String	Lifecycle hook name, which can contain chinese characters, letters, numbers, underscores (_), hyphens (-), and periods (.) with a maximum length of 128 characters.
LifecycleTransition	Yes	String	Scenario for performing the lifecycle hook. valid values: <code>INSTANCE_LAUNCHING</code> : the lifecycle hook is being scaled out. <code>INSTANCE_TERMINATING</code> : the lifecycle hook is being scaled in.
DefaultResult	No	String	Action to be taken by the scaling group in case of lifecycle hook timeout or LifecycleCommand execution failure. valid values are as follows: Default value, means CONTINUE to execute capacity expansion or reduction. * ABANDON: for scale-out hooks, cvms that time out or fail to execute LifecycleCommand will be released directly or removed. for scale-in hooks, scale-in activities will continue.
HeartbeatTimeout	No	Integer	The maximum length of time (in seconds) that can elapse before the lifecycle hook times out. Value range: 30–7200. Default value: 300
NotificationMetadata	No	String	Additional information sent by auto scaling to notification targets, used when configuring a notification (default value: ""). NotificationMetadata and LifecycleCommand are mutually exclusive parameters and cannot be specified simultaneously.
NotificationTarget	No	NotificationTarget	Notification result.

			<code>NotificationTarget</code> and <code>LifecycleCommand</code> cannot be specified at the same time.
<code>LifecycleTransitionType</code>	No	String	The scenario where the lifecycle hook is applied. <code>EXTENSION</code> : the lifecycle hook will be triggered when <code>AttachInstances</code> , <code>DetachInstances</code> or <code>RemoveInstances</code> is called. <code>NORMAL</code> : the lifecycle hook is not triggered by the above APIs.
<code>LifecycleCommand</code>	No	LifecycleCommand	Remote command execution object. <code>NotificationMetadata</code> , <code>NotificationTarget</code> , and <code>LifecycleCommand</code> are mutually exclusive and cannot be specified simultaneously.

3. Output Parameters

Parameter Name	Type	Description
<code>RequestId</code>	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a <code>RequestId</code>). <code>RequestId</code> is required for locating a problem.

4. Example

Example1 Upgrading a lifecycle hook

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UpgradeLifecycleHook
<Common request parameters>

{
```

```
"DefaultResult": "CONTINUE",
"LifecycleHookName": "hook-updated",
"LifecycleHookId": "ash-8azjzxj9",
"LifecycleTransition": "INSTANCE_LAUNCHING",
"HeartbeatTimeout": "240"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "db656d36-ed6b-4795-bdc4-94e7a7e04acb"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
------------	-------------

InternalError	An internal error occurred.
InternalError.CallCmqError	The CMQ API call failed.
InternalError.CallStsError	The STS API call failed.
InternalError.CallTATError	Failed to call the Tencent Automation Tools (TAT) API.
InvalidParameter	Invalid parameter.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameterValue	Wrong parameter value.
InvalidParameterValue.Filter	Invalid filter.
InvalidParameterValue.InvalidLifecycleHookId	Invalid lifecycle hook ID.
InvalidParameterValue.LifecycleHookNameDuplicated	The lifecycle hook name already exists.
MissingParameter	Parameter missing.
ResourceNotFound.CommandNotFound	The command does not exist.
ResourceNotFound.LifecycleHookNotFound	The specified lifecycle hook was not found.
ResourceUnavailable.CmqTopicHasNoSubscriber	There are no subscribers for the specified CMQ topic.
ResourceUnavailable.TDMQCMQTopicHasNoSubscriber	The TDMQ-CMQ topic is not subscribed.

DescribeLifecycleHooks

最近更新时间：2025-07-23 15:50:54

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DescribeLifecycleHooks) is used to query the information of lifecycle hooks.

- You can query the details of lifecycle hooks based on information such as auto scaling group ID, lifecycle hook ID, or lifecycle hook name. For more information on filters, see `Filter`.
- If the parameter is empty, a certain number (specified by `Limit` and 20 by default) of lifecycle hooks of the current user will be returned.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeLifecycleHooks.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
LifecycleHookIds.N	No	Array of	Queries by one or more lifecycle hook IDs in the format of <code>ash-8azjzxc1</code> . The maximum quantity per request

		String	is 100. This parameter does not support specifying both LifecycleHookIds and Filters at the same time.
Filters.N	No	Array of Filter	Filters. - lifecycle-hook-id – String – Required: No – (Filter) Filter by lifecycle hook ID. - lifecycle-hook-name – String – Required: No – (Filter) Filter by lifecycle hook name. - auto-scaling-group-id – String – Required: No – (Filter) Filter by scaling group ID. Up to 10 filters can be included in a request and up to 5 values for each filter. It cannot be specified with LifecycleHookIds at the same time.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on Limit , see the relevant section in the API overview.
Offset	No	Integer	Offset. Default value: 0. For more information on Offset , see the relevant section in the API overview.

3. Output Parameters

Parameter Name	Type	Description
LifecycleHookSet	Array of LifecycleHook	Array of lifecycle hooks
TotalCount	Integer	Total quantity
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying Lifecycle Hooks

Input Example


```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeLifecycleHooks
<Common request parameters>

{}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "LifecycleHookSet": [
      {
        "LifecycleHookName": "terminate-topic",
        "LifecycleTransitionType": "NORMAL",
        "AutoScalingGroupId": "asg-8fbozqja",
        "HeartbeatTimeout": 120,
        "NotificationMetadata": "topic",
        "NotificationTarget": {
          "TargetType": "TDMQ_TOPIC",
          "TopicName": "one-topic",
          "QueueName": "as-tdmq-queue"
        },
        "LifecycleCommand": {
          "CommandId": "cmd-hyg5r4e3",
          "Parameters": "{123: 222}"
        },
        "CreatedTime": "2019-04-19T02:59:30Z",
        "DefaultResult": "ABANDON",
        "LifecycleHookId": "ash-oq76wsrx",
        "LifecycleTransition": "INSTANCE_TERMINATING"
      }
    ],
    "RequestId": "dff07f6e-bdbc-4532-baeb-e7fb3aebe248"
  }
}
```

Example2 Querying Lifecycle Hooks by Using Filters

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeLifecycleHooks
<Common request parameters>
```

```
{
  "Filters": [
    {
      "Values": [
        "asg-8fbozqja"
      ],
      "Name": "auto-scaling-group-id"
    },
    {
      "Values": [
        "ash-fbjiexz7"
      ],
      "Name": "lifecycle-hook-id"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "LifecycleHookSet": [
      {
        "LifecycleHookName": "launch-queue",
        "LifecycleTransitionType": "NORMAL",
        "AutoScalingGroupId": "asg-8fbozqja",
        "HeartbeatTimeout": 120,
        "NotificationMetadata": "queue",
        "NotificationTarget": {
          "TargetType": "TDMQ_QUEUE",
          "TopicName": "as-topic-0",
          "QueueName": "one-queue"
        },
        "LifecycleCommand": {
          "CommandId": "cmd-j87y5tr4",
          "Parameters": "{123: 222}"
        },
        "CreatedTime": "2019-04-19T02:57:14Z",
```

```
"DefaultResult": "CONTINUE",
"LifecycleHookId": "ash-fbjiexz7",
"LifecycleTransition": "INSTANCE_LAUNCHING"
},
],
"RequestId": "2d774a6c-bcaa-4805-b0cd-bd64519e2538"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter	Invalid parameter.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot

	co-exist.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidFilter	Invalid filter condition.
InvalidParameterValue.InvalidLifecycleHookId	Invalid lifecycle hook ID.
MissingParameter	Parameter missing.

DeleteLifecycleHook

最近更新时间：2025-07-23 15:50:55

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DeleteLifeCycleHook) is used to delete a lifecycle hook.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteLifecycleHook.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
LifecycleHookId	Yes	String	Lifecycle hook ID. calling the api DescribeLifecycleHooks and retrieving the LifecycleHookId from the returned information obtains the lifecycle hook ID.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting the specified lifecycle hook

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteLifecycleHook
<Common request parameters>

{
  "LifecycleHookId": "ash-5rynk2n5"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4351a2d1-5cf1-43cc-97d3-16444c86b29f"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)

- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter	Invalid parameter.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.InvalidLifecycleHookId	Invalid lifecycle hook ID.
MissingParameter	Parameter missing.
ResourceNotFound.LifecycleHookNotFound	The specified lifecycle hook was not found.

CreateLifecycleHook

最近更新时间：2025-07-23 15:50:55

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This interface (CreateLifecycleHook) is used for creating a lifecycle hook.

- You can configure notifications or automation commands for the lifecycle hook.

If you configured a notification, Auto Scaling will notify the TDMQ Message Queue of the following information:.

```
{
  "Service": "Tencent Cloud Auto Scaling",
  "Time": "2019-03-14T10:15:11Z",
  "AppId": "1251783334",
  "ActivityId": "asa-fznnvrja",
  "AutoScalingGroupId": "asg-ft6y7u8n",
  "LifecycleHookId": "ash-p9i7y6t5",
  "LifecycleHookName": "my-hook",
  "LifecycleActionToken": "3080e1c9-0efe-4dd7-ad3b-90cd6618298f",
  "InstanceId": "ins-y6dr5e43",
  "LifecycleTransition": "INSTANCE_LAUNCHING",
  "NotificationMetadata": ""
}
```

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateLifecycleHook.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupid	Yes	String	Scaling group ID. obtain available scaling group ids in the following ways: • Query the scaling group ID by logging in to the console. • Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupid from the return information.
LifecycleHookName	Yes	String	Lifecycle hook name, which can contain Chinese characters, letters, numbers, underscores (_), hyphens (-), and periods (.) with a maximum length of 128 bytes.
LifecycleTransition	Yes	String	Scenario for performing the lifecycle hook. valid values: • <code>INSTANCE_LAUNCHING</code> : the lifecycle hook is being scaled out. • <code>INSTANCE_TERMINATING</code> : scaling in lifecycle hook
DefaultResult	No	String	Action to be taken by the scaling group in case of lifecycle hook timeout or LifecycleCommand execution failure. valid values: • <code>CONTINUE</code>: default value, means continue execution of capacity expansion or reduction

			ABANDON: for scale-out hooks, CVM instances with hook timeout or failed LifecycleCommand execution will be released directly or removed. for scale-in hooks, scale-in activities will continue.
HeartbeatTimeout	No	Integer	The maximum length of time (in seconds) that can elapse before the lifecycle hook times out. Value range: 30–7200. Default value: 300
NotificationMetadata	No	String	Additional information of a notification that auto scaling sends to targets. this parameter is set when you configure a notification (default value: ""), with a maximum length of 1024 characters. NotificationMetadata and LifecycleCommand are mutually exclusive, and either can be specified.
NotificationTarget	No	NotificationTarget	Notification target. <code>NotificationTarget</code> and <code>LifecycleCommand</code> cannot be specified at the same time.
LifecycleTransitionType	No	String	Specifies the scenario type for performing the lifecycle hook. valid values: NORMAL and EXTENSION. default value: NORMAL. <code>EXTENSION</code> : the lifecycle hook will be triggered when calling AttachInstances , DetachInstances , removeinstances , StopAutoScalingInstances , StartAutoScalingInstances , or StartInstanceRefresh . <code>NORMAL</code> : the lifecycle hook is not triggered by these apis.
LifecycleCommand	No	LifecycleCommand	Specifies the remote command execution object. NotificationTarget and NotificationMetadata are mutually exclusive with this parameter. either cannot be specified simultaneously.

3. Output Parameters

Parameter Name	Type	Description
LifecycleHookId	String	Lifecycle hook ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a Lifecycle Hook

This example shows you how to create a lifecycle hook that takes effect in the scenario of instance creation, where DefaultResult is set to ABANDON and HeartbeatTimeout is set to 360 seconds.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLifecycleHook
<Common request parameters>

{
  "AutoScalingGroupId": "asg-8fbozqja",
  "DefaultResult": "ABANDON",
  "LifecycleHookName": "one-hook",
  "LifecycleTransition": "INSTANCE_LAUNCHING",
  "HeartbeatTimeout": 360
}
```

Output Example

```
{
  "Response": {
    "LifecycleHookId": "ash-heyubib1",
    "RequestId": "5e414011-3359-45bd-8ba4-5b503d3fd3f6"
  }
}
```

Example2 Creating a Lifecycle Hook with the Default Value

This example shows you how to create a lifecycle hook that takes effect in the scenario of instance creation, where DefaultResult takes the default value CONTINUE and HeartbeatTimeout takes the default value 300 seconds.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLifecycleHook
<Common request parameters>

{
  "AutoScalingGroupId": "asg-8fbozqja",
  "LifecycleHookName": "one-hook-default",
  "LifecycleTransition": "INSTANCE_LAUNCHING"
}
```

Output Example

```
{
  "Response": {
    "LifecycleHookId": "ash-8azjzxj9",
    "RequestId": "4fa9fd2e-5b6c-49fe-9ba7-ed2ee62d8271"
  }
}
```

Example3 Creating a Lifecycle Hook to Notify the TDMQ Topic Model

This example shows you how to create a lifecycle hook that takes effect in the scenario of instance termination, where DefaultResult is set to ABANDON and HeartbeatTimeout is set to 120 seconds, to notify the TDMQ topic model named one-topic.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLifecycleHook
<Common request parameters>
```

```
{
  "HeartbeatTimeout": 120,
  "AutoScalingGroupId": "asg-8fbozqja",
  "LifecycleHookName": "terminate-topic",
  "NotificationMetadata": "topic",
  "NotificationTarget": {
    "TargetType": "TDMQ_TOPIC",
    "TopicName": "one-topic"
  },
  "DefaultResult": "ABANDON",
  "LifecycleTransition": "INSTANCE_TERMINATING"
}
```

Output Example

```
{
  "Response": {
    "LifecycleHookId": "ash-oq76wsrx",
    "RequestId": "cdb7670b-0412-444f-9d2f-0da9cd07c410"
  }
}
```

Example4 Creating a Lifecycle Hook to Notify the TDMQ Model

This example shows you how to create a lifecycle hook that takes effect in the scenario of instance creation, where DefaultResult is set to CONTINUE and HeartbeatTimeout is set to 120 seconds, to notify the TDMQ model named one-queue.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLifecycleHook
<Common request parameters>

{
  "HeartbeatTimeout": 120,
  "AutoScalingGroupId": "asg-8fbozqja",
  "LifecycleHookName": "launch-queue",
  "NotificationMetadata": "queue",
  "NotificationTarget": {
    "TargetType": "TDMQ_QUEUE",
    "QueueName": "one-queue"
  },
}
```

```
"DefaultResult": "CONTINUE",
"LifecycleTransition": "INSTANCE_LAUNCHING"
}
```

Output Example

```
{
  "Response": {
    "LifecycleHookId": "ash-fbjiexz7",
    "RequestId": "d3cf27b7-3090-4317-9107-d2eac986a446"
  }
}
```

Example5 Creating a Lifecycle Hook to Execute TAT Commands

This example shows you how to create a lifecycle hook that takes effect in the scenario of instance creation, where DefaultResult takes the default value CONTINUE and HeartbeatTimeout takes the default value 300 seconds.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLifecycleHook
<Common request parameters>

{
  "HeartbeatTimeout": 300,
  "AutoScalingGroupId": "asg-mp5ydedh",
  "LifecycleCommand": {
    "CommandId": "cmd-id9u9191",
    "Parameters": "{\"var1\":\"ck\"}"
  },
  "LifecycleHookName": "demo2",
  "DefaultResult": "CONTINUE",
  "LifecycleTransition": "INSTANCE_LAUNCHING"
}
```

Output Example

```
{
  "Response": {
    "LifecycleHookId": "ash-kjurq12y",

```

```
"RequestId": "08f7bea5-3e0a-4280-9970-5d959a922b0b"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InternalServerError.CallCmqError	The CMQ API call failed.
InternalServerError.CallTATError	Failed to call the Tencent Automation Tools (TAT) API.
InternalServerError.CalleeError	Exceptions occurred while invoking other services.
InvalidParameter	Invalid parameter.

InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameterValue	Wrong parameter value.
InvalidParameterValue.Filter	Invalid filter.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.LifecycleHookNameDuplicated	The lifecycle hook name already exists.
InvalidParameterValue.Range	The value is outside the specified range.
LimitExceeded.QuotaNotEnough	You are short of the quota.
MissingParameter	Parameter missing.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.CmqQueueNotFound	The specified CMQ queue does not exist.
ResourceNotFound.CommandNotFound	The command does not exist.
ResourceNotFound.TDMQCMQQueueNotFound	The TDMQ-CMQ queue doesn't exist.
ResourceNotFound.TDMQCMQTopicNotFound	The TDMQ-CMQ topic doesn't exist.
ResourceUnavailable.CmqTopicHasNoSubscriber	There are no subscribers for the specified CMQ topic.
ResourceUnavailable.TDMQCMQTopicHasNoSubscriber	The TDMQ-CMQ topic is not subscribed.

CompleteLifecycleAction

最近更新时间：2025-07-23 15:50:56

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to complete a lifecycle action by setting the status of lifecycle hook to `CONTINUE` or `ABANDON` .

- If this API is not called, the lifecycle hook goes to the status specified in `DefaultResult` after the timeout period.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CompleteLifecycleAction.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
LifecycleHookId	Yes	String	Lifecycle hook ID. you can get the lifecycle hook ID by calling the api DescribeLifecycleHooks and retrieving

			the <code>LifecycleHookId</code> from the returned information.
<code>LifecycleActionResult</code>	Yes	String	Describes the result of the lifecycle action. valid values are as follows: • <code>CONTINUE</code>: default value, means continue execution of capacity expansion or reduction • <code>ABANDON</code>: for scale-out hooks, CVM instances with hook timeout or failed <code>LifecycleCommand</code> execution will be released directly or moved; for scale-in hooks, scale-in activities will continue.
<code>InstanceId</code>	No	String	One of the parameters <code>InstanceId</code> or <code>LifecycleActionToken</code> is required. you can get the instance ID by logging in to the console or making an api call to DescribeInstances and retrieving the <code>InstanceId</code> from the returned information.
<code>LifecycleActionToken</code>	No	String	Lifecycle action token. specifies that one of <code>InstanceId</code> or <code>LifecycleActionToken</code> must be filled. The method for accessing the parameter is as follows: when the hook of the <code>NotificationTarget</code> parameter is triggered, deliver a message containing the token to the message queue specified in the <code>NotificationTarget</code> parameter. the message queue consumer can obtain the token from the message.

3. Output Parameters

Parameter Name	Type	Description
<code>RequestId</code>	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a <code>RequestId</code>). <code>RequestId</code> is required for locating a problem.

4. Example

Example1 Completing a lifecycle action by specifying the `InstanceId`

This example shows you how to complete a lifecycle action of the specific instance by specifying the `InstanceId`.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CompleteLifecycleAction
<Common request parameters>

{
  "InstanceId": "ins-ni8bpmve",
  "LifecycleActionResult": "CONTINUE",
  "LifecycleHookId": "ash-fbjiexz7"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "d0cf47b9-4236-491c-bfab-106947198afe"
  }
}
```

Example2 Completing a lifecycle action by specifying the `LifecycleActionToken`

This example shows you how to complete a lifecycle action of the specific instance by specifying the `LifecycleActionToken`, which is contained in the message sent by the lifecycle hook to TDMQ.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CompleteLifecycleAction
<Common request parameters>

{
  "LifecycleActionResult": "CONTINUE",
  "LifecycleHookId": "ash-fbjiexz7",
  "LifecycleActionToken": "4d910016-2590-444d-8f4a-c14940036902"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "de792ffe-e37e-4f1d-8534-300b555739da"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter	Invalid parameter.
InvalidParameter.ActionNotFound	Invalid Action request.

InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.MustOneParameter	A parameter is missing. One of the two parameters must be specified.
InvalidParameterValue	Wrong parameter value.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.
InvalidParameterValue.InvalidLifecycleHookId	Invalid lifecycle hook ID.
ResourceNotFound.LifecycleHookInstanceNotFound	The instance corresponding to the lifecycle hook does not exist.
ResourceNotFound.LifecycleHookNotFound	The specified lifecycle hook was not found.
ResourceNotFound.LifecycleHookTokenNotFound	The specified lifecycle hook token does not exist.
ResourceUnavailable.LifecycleActionResultHasSet	The lifecycle action has already been set.

ModifyLifecycleHook

最近更新时间：2025-07-23 15:50:54

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to modify the lifecycle hook.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyLifecycleHook.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
LifecycleHookId	Yes	String	Lifecycle hook ID. you can get the lifecycle hook ID by calling the api DescribeLifecycleHooks and retrieving the LifecycleHookId from the returned information.
LifecycleHookName	No	String	Lifecycle hook name. Name only

			supports chinese, english, digits, underscore (_), hyphen (-), decimal point (.), maximum length cannot exceed 128.
LifecycleTransition	No	String	Scenario for entering the lifecycle hook. valid values: <code>INSTANCE_LAUNCHING</code> : the lifecycle hook is being scaled out. <code>INSTANCE_TERMINATING</code> : the lifecycle hook is being scaled in.
DefaultResult	No	String	Action to be taken by the scaling group in case of lifecycle hook timeout or LifecycleCommand execution failure. valid values: Default value means CONTINUE to execute capacity expansion or reduction. * ABANDON: for scale-out hooks, cvms that time out or fail to execute LifecycleCommand are released directly or removed. for scale-in hooks, scale-in activities continue.
HeartbeatTimeout	No	Integer	The maximum length of time (in seconds) that can elapse before the lifecycle hook times out. Value range: 30 – 7,200 seconds.
NotificationMetadata	No	String	Specifies the additional information sent by auto scaling to the notification target. NotificationMetadata and LifecycleCommand are mutually exclusive. the two cannot be specified simultaneously.
LifecycleTransitionType	No	String	The scenario where the lifecycle hook is applied. <code>EXTENSION</code> : The lifecycle hook will be triggered when <code>AttachInstances</code> , <code>DetachInstances</code> or <code>RemoveInstances</code> is called. <code>NORMAL</code> : The lifecycle hook is not triggered by the above APIs.

NotificationTarget	No	NotificationTarget	Notify the target information. NotificationTarget and LifecycleCommand are mutually exclusive. the two cannot be specified simultaneously.
LifecycleCommand	No	LifecycleCommand	Remote command execution object. NotificationMetadata , NotificationTarget , and LifecycleCommand cannot be specified at the same time.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Applying a lifecycle hook after the instance launch

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyLifecycleHook
<Common request parameters>

{
  "LifecycleHookId": "ash-je1esoo9",
  "LifecycleTransition": "INSTANCE_LAUNCHING"
}
```

Output Example


```
{
  "Response": {
    "RequestId": "4942c041-fc7f-4f50-b489-d01cdeb6638f"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.CallTATError	Failed to call the Tencent Automation Tools (TAT) API.
InvalidParameter	Invalid parameter.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue	Wrong parameter value.

InvalidParameterValue.Range	The value is outside the specified range.
ResourceNotFound.CmqQueueNotFound	The specified CMQ queue does not exist.
ResourceNotFound.CommandNotFound	The command does not exist.
ResourceNotFound.LifecycleHookNotFound	The specified lifecycle hook was not found.
ResourceNotFound.TDMQCMQQueueNotFound	The TDMQ-CMQ queue doesn't exist.
ResourceNotFound.TDMQCMQTopicNotFound	The TDMQ-CMQ topic doesn't exist.
ResourceUnavailable.TDMQCMQTopicHasNoSubscriber	The TDMQ-CMQ topic is not subscribed.

Instance Refresh APIs

StopInstanceRefresh

最近更新时间：2025-07-23 15:51:00

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to pause the ongoing instance refresh activity.

- In the paused status, the scaling group will also be disabled.
- The instances that are currently being updated or scaled out will not be paused, but instances pending updates will have their updates paused.
- During scale-in, all instances have already been updated and cannot be paused.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: StopInstanceRefresh.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.

AutoScalingGroupId	Yes	String	Scaling group ID. you can obtain available scaling group ids in the following ways. • Query the scaling group ID by logging in to the console. • Get the scaling group ID by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the returned information.
RefreshActivityId	Yes	String	Refresh activity ID. you can call the api DescribeRefreshActivities and obtain the instance refresh activity ID from the returned information.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Suspending the Instance Refresh Activity

Pause the instance refresh activity asr-juh6ytr for the scaling group asg-h7tgd87d

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StopInstanceRefresh
<Common request parameters>

{
  "AutoScalingGroupId": "asg-h7tgd87d",
  "RefreshActivityId": "asr-juh6ytr"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c4190090-bc60-4f48-b9d4-48095b9596db"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
ResourceNotFound.RefreshActivityNotFound	The specified instance refresh activity does not exist.
ResourceUnavailable.RefreshActivityStatusConflictWithOperation	The instance refresh activity status conflicts with the current operation.
UnauthorizedOperation.AutoScalingRoleUnauthorized	You have not assigned the CAM

role AS-QCSRole to Auto Scaling.
Please go to the AS console to
complete authorization first.

StartInstanceRefresh

最近更新时间：2025-07-23 15:51:00

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to refresh running CVM instances in the scaling group and return the RefreshActivityId for the instance refresh activity based on parameters in the launch configuration.

- For refresh methods involving reinstallation (currently only reinstallation is supported), during reinstallation, only the ImageId, UserData, EnhancedService, HostName, and LoginSettings parameters will be fetched from the launch configuration for refreshing; other parameters of the instance will not be refreshed.
- During the instance refresh process (including paused status), the scaling group will be disabled. It is not recommended to modify the associated launch configuration during a refresh, as this may impact the refresh parameters, leading to inconsistent instance configurations.
- In rolling update mode, instance refreshes are performed in multiple batches. If there are failed refreshes within a batch, the activity will enter a failed paused status.
- Instances pending refresh that are removed or destroyed will be marked as NOT_FOUND status, but they will not block the instance refresh activity.
- Even if a running instance has parameters consistent with the latest launch configuration, it can still undergo another refresh.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

--	--	--	--

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: StartInstanceRefresh.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupID	Yes	String	Scaling group ID.
RefreshSettings	Yes	RefreshSettings	Refresh settings.
RefreshMode	No	String	Refresh mode. default value: ROLLING_UPDATE_RESET. valid values:. - ROLLING_UPDATE_RESET: reinstall the system for rolling updates. - ROLLING_UPDATE_REPLACE: Create an instance and replace the old instance with it for rolling updates. This mode does not support the rollback API currently.

3. Output Parameters

Parameter Name	Type	Description
RefreshActivityId	String	Refresh activity ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Refresh Instance in Rolling Update Manner

Divide the instances in the scaling group asg-9dn1a5y6 into 3 batches for rolling updates, with an automatic pause between batches.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StartInstanceRefresh
<Common request parameters>

{
  "AutoScalingGroupId": "asg-9dn1a5y6",
  "RefreshMode": "ROLLING_UPDATE_RESET",
  "RefreshSettings": {
    "RollingUpdateSettings": {
      "BatchNumber": 3,
      "BatchPause": "BATCH_INTERVAL_PAUSE"
    }
  }
}
```

Output Example

```
{
  "Response": {
    "RefreshActivityId": "asr-y67t5r4e",
    "RequestId": "c4190090-bc60-4f48-b9d4-48095b9596db"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.BatchNumberTooLarge	The batch count cannot exceed the total number of instances pending refresh.
InvalidParameterValue.MaxSurgeTooLarge	The maximum additional quantity is too large.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceUnavailable.AutoScalingGroupAbnormalStatus	The auto scaling group is exceptional.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.AutoScalingGroupInRefreshActivity	The scaling group is already involved in another instance refresh activity.
ResourceUnavailable.InquiryPriceResetInstanceFailed	The instance reinstallation quotation failed, because the new image conflicts with other parameters of the instance or the new image does not exist.
ResourceUnavailable.NoInstanceCanRefresh	There are no instances in running status within the scaling group, making it impossible to perform an instance refresh.
ResourceUnavailable.RefreshActivityStatusConflictWithOperation	The instance refresh activity status conflicts with the current operation.
UnauthorizedOperation.AutoScalingRoleUnauthorized	You have not assigned the CAM role AS-QCSRole to Auto Scaling.

Please go to the AS console to complete authorization first.

RollbackInstanceRefresh

最近更新时间：2025-07-23 15:51:01

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to generate a new instance refresh activity, which also supports batch refreshing and operations such as pausing, resuming, and canceling. This API returns RefreshActivityId for the rollback activity.

- The instances pending refresh in the original activity are updated to canceled status. Nonexistent instances are disregarded, while instances in all other statuses proceed to enter the rollback process.
- The instances that are being refreshed in the original activity will not be immediately terminated. Instead, the rollback activity will be executed after their refresh complete.
- Rollback is supported for activities that are in the paused status or those succeeded in refreshing last time. It is not supported for activities in other statuses.
- When the original refresh activity involves reinstalling instances, for the ImageId parameter, it will automatically recover to the image ID before the rollback; for parameters such as UserData, EnhancedService, LoginSettings, and HostName, they will still be read from the launch configuration, requiring users to manually modify the launch configuration before initiating the rollback.
- The rollback activity does not support the MaxSurge parameter currently.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description

Action	Yes	String	Common Params . The value used for this API: RollbackInstanceRefresh.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupID	Yes	String	Scaling group ID. you can obtain available scaling group ids in the following ways. - Query the scaling group ID by logging in to the console. - Obtain the scaling group ID by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupID from the returned information.
RefreshSettings	Yes	RefreshSettings	Refresh settings.
OriginRefreshActivityID	Yes	String	The original refresh activity ID. you can obtain the original refresh activity ID by calling the api DescribeRefreshActivities and retrieving the OriginRefreshActivityID from the returned information.
RefreshMode	No	String	Refresh mode, currently, only rolling updates are supported, with the default value being ROLLING_UPDATE_RESET.

3. Output Parameters

Parameter Name	Type	Description
RefreshActivityID	String	Refresh activity ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Rolling Update Method Rollback Instance Refresh Activity

Roll back the instance refresh activity asr-i8u7tytd for the scaling group asg-9dn1a5y6.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StartInstanceRefresh
<Common request parameters>

{
  "AutoScalingGroupId": "asg-9dn1a5y6",
  "RefreshMode": "ROLLING_UPDATE_RESET",
  "OriginRefreshActivityId": "asr-i8u7tytd",
  "RefreshSettings": {
    "RollingUpdateSettings": {
      "BatchNumber": 3,
      "BatchPause": "BATCH_INTERVAL_PAUSE"
    }
  }
}
```

Output Example

```
{
  "Response": {
    "RefreshActivityId": "asr-y67t5r4e",
    "RequestId": "c4190090-bc60-4f48-b9d4-48095b9596db"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.BatchNumberTooLarge	The batch count cannot exceed the total number of instances pending refresh.
ResourceNotFound.AutoScalingGroupIdNotFound	The scaling group does not exist.
ResourceUnavailable.AutoScalingGroupAbnormalStatus	The auto scaling group is exceptional.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.AutoScalingGroupInRefreshActivity	The scaling group is already involved in another instance refresh activity.
ResourceUnavailable.InquiryPriceResetInstanceFailed	The instance reinstallation quotation failed, because the new image conflicts with other parameters of the instance or the new image does not exist.
ResourceUnavailable.NoInstanceCanRefresh	There are no instances in running status within the scaling group, making it impossible to perform an instance refresh.

ResourceUnavailable.NoInstanceCanRollback	There are no instances eligible for rollback in the scaling group.
ResourceUnavailable.RefreshActivityCanNotRollback	The current refresh activity is in a successful status and not the most recent execution, so it cannot be rolled back.
ResourceUnavailable.RefreshActivityStatusConflictWithOperation	The instance refresh activity status conflicts with the current operation.
ResourceUnavailable.RollbackTypeActivityCanNotRollbackAgain	Rollback type instance refresh activity cannot be rolled back again.
UnauthorizedOperation.AutoScalingRoleUnauthorized	You have not assigned the CAM role AS-QCSRole to Auto Scaling. Please go to the AS console to complete authorization first.

ResumeInstanceRefresh

最近更新时间：2025-07-23 15:51:01

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to resume the paused instance refresh activity, allowing it to retry failed instances in the current batch or proceed with refreshing subsequent batches. Note that calling this API is ineffective when the activity is not in a paused status.

- When the MaxSurge parameter is used, the activity may be paused due to scale-out or scale-in failures. This API can also be used to retry scaling operations.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ResumeInstanceRefresh.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain in the following ways:.

			- Query the scaling group ID by logging in to the console. . - Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the return information. .
RefreshActivityId	Yes	String	Refresh activity ID. you can get the instance refresh activity ID by calling the api DescribeRefreshActivities and retrieving the RefreshActivityId from the returned information.
ResumeMode	No	String	Recovery mode of instances that have failed to be refreshed in the current batch. If there are no failed instances, this parameter is invalid. Default value: RETRY. Valid values: - RETRY: Retry instances that have failed to be refreshed in the current batch. - CONTINUE: Skip instances that have failed to be refreshed in the current batch.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Resuming the Instance Refresh Activity

Resume the instance refresh activity asr-juhf6ytr in the scaling group asg-h7tgd87d to retry the failed instances in the current batch.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
```

```
Content-Type: application/json
X-TC-Action: ResumeInstanceRefresh
<Common request parameters>

{
  "AutoScalingGroupId": "asg-h7tgd87d",
  "RefreshActivityId": "asr-juhf6ytr",
  "ResumeMode": "RETRY"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c4190090-bc60-4f48-b9d4-48095b9596db"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
ResourceNotFound.RefreshActivityNotFound	The specified instance refresh activity does not exist.
ResourceUnavailable.RefreshActivityStatusConflictWithOperation	The instance refresh activity status conflicts with the current operation.
UnauthorizedOperation.AutoScalingRoleUnauthorized	You have not assigned the CAM role AS-QCSRole to Auto Scaling. Please go to the AS console to complete authorization first.

DescribeRefreshActivities

最近更新时间：2025-07-23 15:51:02

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DescribeRefreshActivities) is used to query the instance refresh activity records of a scaling group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeRefreshActivities.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
RefreshActivityIds.N	No	Array of String	List of refresh activity IDs. IDs are formatted like: 'asr-5l2ejpfo'. The upper limit per request is 100. Parameters do not support specifying both RefreshActivityIds and Filters simultaneously.
Filters.N	No	Array of Filter	Filter criteria

			• auto-scaling-group-id – String – required: no – (filter) filter by auto scaling group id. obtain the scaling group id by logging in to the console or calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the returned information. . • refresh-activity-status-code – String – required: no – (filter criteria) filters by refresh activity status. (INIT: initializing RUNNING: RUNNING SUCCESSFUL: activity SUCCESSFUL FAILED_PAUSE: PAUSE on failure AUTO_PAUSE: AUTO PAUSE MANUAL_PAUSE: manually PAUSE CANCELLED: activity CANCELLED FAILED: activity FAILED) . • refresh-activity-type – String – required: no – (filter) filter by refresh activity types. (NORMAL: regular refresh activity ROLLBACK: ROLLBACK refresh activity) . • refresh-activity-id – String – required: no – (filter) filter by refresh activity id. . • The upper limit of Filters per request is 10, and that of Filter.Values is 5. The RefreshActivityIds and Filters parameters cannot be specified at the same time.
Limit	No	Integer	Number of returned pieces. Default value: 20. Maximum value: 100. For further information on Limit, please refer to relevant sections in API [Overview] (https://intl.cloud.tencent.com/document/api/213/15688?from_cn_redirect=1).
Offset	No	Integer	Offset, 0 by default. For further information on Offset, please refer to relevant sections in API [Overview] (https://intl.cloud.tencent.com/document/api/213/15688?from_cn_redirect=1).

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of refresh activities that meet the conditions.
RefreshActivitySet	Array of RefreshActivity	A collection of information about refresh activities that meet the conditions.

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
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4. Example

Example1 Viewing the List of Refresh Activities by Using Filters

This example shows you how to query the details of refresh activity asr-cs0fxpcu using Filters.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeRefreshActivities
<Common request parameters>

{
  "Filters": [
    {
      "Name": "refresh-activity-id",
      "Values": [
        "asr-cs0fxpcu"
      ]
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RefreshActivitySet": [
      {
        "Status": "SUCCESSFUL",
        "RefreshBatchSet": [
          {
            "RefreshBatchNum": 3,
            "EndTime": "2023-09-07T16:32:56Z",
            "RefreshBatchRelatedInstanceSet": [
```

```
{
  "InstanceId": "ins-w188n53l",
  "InstanceStatusMessage": "success",
  "LastActivityId": "asa-pb2y1bna",
  "InstanceStatus": "SUCCESSFUL"
},
{
  "RefreshBatchNum": 2,
  "EndTime": "2023-09-07T16:31:44Z",
  "RefreshBatchRelatedInstanceSet": [
    {
      "InstanceId": "ins-w1824wre",
      "InstanceStatusMessage": "success",
      "LastActivityId": "asa-e8dqz8r6",
      "InstanceStatus": "SUCCESSFUL"
    },
    {
      "InstanceId": "ins-w188n53m",
      "InstanceStatusMessage": "success",
      "LastActivityId": "asa-e8dqz8r6",
      "InstanceStatus": "SUCCESSFUL"
    }
  ],
  "StartTime": "2023-09-07T16:29:56Z",
  "RefreshBatchStatus": "SUCCESSFUL"
},
{
  "RefreshBatchNum": 1,
  "EndTime": "2023-09-07T16:29:55Z",
  "RefreshBatchRelatedInstanceSet": [
    {
      "InstanceId": "ins-w188n53k",
      "InstanceStatusMessage": "success",
      "LastActivityId": "asa-e0o3uxsu",
      "InstanceStatus": "SUCCESSFUL"
    },
    {
      "InstanceId": "ins-w188n53n",
      "InstanceStatusMessage": "success",
      "LastActivityId": "asa-e0o3uxsu",
      "InstanceStatus": "SUCCESSFUL"
    }
  ],
}
```



```
"StartTime": "2023-09-07T16:27:49Z",
"RefreshBatchStatus": "SUCCESSFUL"
},
],
"RefreshMode": "ROLLING_UPDATE_RESET",
"AutoScalingGroupId": "asg-kgujlegg",
"ActivityType": "NORMAL",
"RefreshSettings": {
  "CheckInstanceTargetHealth": true,
  "RollingUpdateSettings": {
    "BatchNumber": 3,
    "BatchPause": "AUTOMATIC"
  }
},
"OriginRefreshActivityId": "asr-jy6t4e3w",
"CurrentRefreshBatchNum": 3,
"RefreshActivityId": "asr-cs0fxpcu",
"StartTime": "2023-09-07T16:27:49Z",
"CreatedTime": "2023-09-07T16:27:49Z",
"EndTime": "2023-09-07T16:32:56Z"
}
],
"RequestId": "48869660-f1df-4085-a62c-1f9636cbe030"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameterValue.Filter	Invalid filter.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidFilter	Invalid filter condition.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
LimitExceeded.FilterValuesTooLong	Too many values for the specified filter

CancelInstanceRefresh

最近更新时间：2025-07-23 15:51:02

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API is used to cancel the instance refresh activity of the scaling group.

- The batches that have already been refreshed remain unaffected, but the batches pending refresh will be canceled.
- If a batch is currently refreshing, cancellation is not allowed. You can suspend the event and wait until the current batch finishes before canceling.

This API is used to refresh the failed instances. If a refresh fails, the affected instances will remain in standby status, and require manual intervention to exit the standby status or terminate the instances.

- Rollback operations are not allowed after cancellation, and recovery is unsupported.
Temporarily expanded instances due to the maxSurge parameter are automatically destroyed after cancellation.
- During scale-in, all instances have already been updated and cannot be canceled.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters.

For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CancelInstanceRefresh.
Version	Yes	String	Common Params . The value used for this API: 2018-04-

			19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID. obtain available scaling group ids in the following ways: • Query the scaling group ID by logging in to the console. • Specifies the scaling group ID obtained by calling the api DescribeAutoScalingGroups and retrieving the AutoScalingGroupId from the return information.
RefreshActivityId	Yes	String	Refresh activity ID. you can obtain the instance refresh activity ID by calling the api DescribeRefreshActivities and retrieving the RefreshActivityId from the returned information.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Canceling the Instance Refresh Activity

This example shows you how to cancel the instance refresh activity asr-juhf6ytr in scaling group asg-h7tgd87d.

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CancelInstanceRefresh
```

```
<Common request parameters>
```

```
{
  "AutoScalingGroupId": "asg-h7tgd87d",
  "RefreshActivityId": "asr-juhf6ytr"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c4190090-bc60-4f48-b9d4-48095b9596db"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Python](#)
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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
------------	-------------

ResourceNotFound.RefreshActivityNotFound	The specified instance refresh activity does not exist.
ResourceUnavailable.RefreshActivityStatusConflictWithOperation	The instance refresh activity status conflicts with the current operation.
UnauthorizedOperation.AutoScalingRoleUnauthorized	You have not assigned the CAM role AS-QCSRole to Auto Scaling. Please go to the AS console to complete authorization first.

Other APIs

DescribeAccountLimits

最近更新时间：2025-07-23 15:50:51

1. API Description

Domain name for API request: as.intl.tencentcloudapi.com.

This API (DescribeAccountLimits) is used to query the limits of user's AS resources.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAccountLimits.
Version	Yes	String	Common Params . The value used for this API: 2018-04-19.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description

MaxNumberOfLaunchConfigurations	Integer	Maximum number of launch configurations allowed for creation by the user account
NumberOfLaunchConfigurations	Integer	Current number of launch configurations under the user account
MaxNumberOfAutoScalingGroups	Integer	Maximum number of auto scaling groups allowed for creation by the user account
NumberOfAutoScalingGroups	Integer	Current number of auto scaling groups under the user account
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the limits on launch configurations and scaling groups

Input Example

```
POST / HTTP/1.1
Host: as.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAccountLimits
<Common request parameters>

{ }
```

Output Example

```
{
  "Response": {
    "NumberOfLaunchConfigurations": 15,
    "MaxNumberOfLaunchConfigurations": 20,
    "NumberOfAutoScalingGroups": 25,
    "MaxNumberOfAutoScalingGroups": 30,
    "RequestId": "0c243e3a-70e0-4365-98b1-5fe22b4498a1"
  }
}
```


5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	An internal error occurred.
InvalidParameter.ActionNotFound	Invalid Action request.

Data Types

最近更新时间：2025-07-23 15:59:47

Activity

Information of auto scaling activity.

Used by actions: DescribeAutoScalingActivities, DescribeAutoScalingGroupLastActivities.

Name	Type	Description
AutoScalingGroupId	String	Auto scaling group ID.
ActivityId	String	Scaling activity ID.
ActivityType	String	Scaling activity type. Valid values: - SCALE_OUT: Scale out instance(s). - SCALE_IN: Scale in instance(s). - ATTACH_INSTANCES: Add instance(s). - REMOVE_INSTANCES: Terminate instance(s). - DETACH_INSTANCES: Remove instance(s). - TERMINATE_INSTANCES_UNEXPECTEDLY: Instance(s) unexpectedly terminated in the CVM console. - REPLACE_UNHEALTHY_INSTANCE: Replace unhealthy instance(s). - START_INSTANCES: Start instance(s). - STOP_INSTANCES: Stop instance(s). - INVOKE_COMMAND: Execute a command in instance(s).
StatusCode	String	Scaling activity status. Valid values: - INIT: initializing. - RUNNING: running. - SUCCESSFUL: successful. - PARTIALLY_SUCCESSFUL: partially successful. - FAILED: failed. - CANCELLED: canceled.

StatusMessage	String	Description of the scaling activity status.
Cause	String	Cause of the scaling activity.
Description	String	Description of the scaling activity.
StartTime	Timestamp ISO8601	Start time of the auto scaling activity in UTC standard time.
EndTime	Timestamp ISO8601	End time of the scaling activity in UTC standard time.
CreatedTime	Timestamp ISO8601	Create time of the scaling activity in UTC standard time.
StatusMessageSimplified	String	Brief description of the scaling activity status.
LifecycleActionResultSet	Array of LifecycleActionResultInfo	Result of the lifecycle hook action in the scaling activity
DetailedStatusMessageSet	Array of DetailedStatusMessage	Detailed description of the scaling activity status
InvocationResultSet	Array of InvocationResult	Result of the command execution
RelatedInstanceSet	Array of RelatedInstance	Related instance information set of the scaling activity.

Advice

Suggestions for scaling group configurations.

Used by actions: DescribeAutoScalingAdvices.

Name	Type	Description
Problem	String	Problem Description
Detail	String	Problem Details
Solution	String	Recommended resolutions
Level	String	Scaling suggestion warning level. Valid values: - WARNING: warning. - CRITICAL: critical.

AutoScalingAdvice

Suggestions for scaling group configurations.

Used by actions: DescribeAutoScalingAdvices.

Name	Type	Description
AutoScalingGroupID	String	Scaling group ID
Level	String	Scaling group warning level. Valid values: - NORMAL: normal. - WARNING: warning. - CRITICAL: critical.
Advices	Array of Advice	A collection of suggestions for scaling group configurations.

AutoScalingGroup

Auto scaling group

Used by actions: DescribeAutoScalingGroups.

Name	Type	Description
AutoScalingGroupID	String	Auto scaling group ID
AutoScalingGroupName	String	Auto scaling group name
AutoScalingGroupStatus	String	Current status of the scaling group Valid values: - NORMAL: The scaling group is normal. - CVM_ABNORMAL: The launch configuration is abnormal. - LB_ABNORMAL: The CLB is abnormal. - LB_LISTENER_ABNORMAL: The CLB listener is abnormal. - LB_LOCATION_ABNORMAL: The forwarding configuration of the CLB listener is abnormal. - VPC_ABNORMAL: The VPC is abnormal.

		- SUBNET_ABNORMAL: The VF subnet is abnormal. - INSUFFICIENT_BALANCE: The balance is insufficient. - LB_BACKEND_REGION_NOT_MATCH: The region of the CLB instance backend does not match that of AS service. - LB_BACKEND_VPC_NOT_MATCH: The VPC of the CLB instance do not match that of the scaling group.
CreatedTime	Timestamp ISO8601	Creation time in UTC format
DefaultCooldown	Integer	Default cooldown period in seconds
DesiredCapacity	Integer	Desired number of instances
EnabledStatus	String	Enabled status. Value range: <code>ENABLED</code> , <code>DISABLED</code>
ForwardLoadBalancerSet	Array of ForwardLoadBalancer	List of application load balancers
InstanceCount	Integer	Number of instances
InServiceInstanceCount	Integer	Number of instances in <code>IN_SERVICE</code> status
LaunchConfigurationId	String	Launch configuration ID
LaunchConfigurationName	String	Launch configuration name
LoadBalancerIdSet	Array of String	List of Classic load balancer IDs
MaxSize	Integer	Maximum number of instances
MinSize	Integer	Minimum number of instances
ProjectId	Integer	Project ID
SubnetIdSet	Array of String	List of subnet IDs
TerminationPolicySet	Array of String	Destruction policy. valid values as follows: OLDEST_INSTANCE: terminate oldest instance in the scaling group.

		first, default value. • NEWEST_INSTANCE: terminate the newest instance in the scaling group first.
VpcId	String	VPC ID.
ZoneSet	Array of String	List of availability zones
RetryPolicy	String	Retry policy. a partially successful scaling operation is considered a failed activity. valid values are as follows:. • IMMEDIATE_RETRY: default value means retry immediately, attempt retries in rapid succession over a short period. cease further retries after a certain number of consecutive failures (5). • INCREMENTAL_INTERVALS: specifies incremental interval retries with the number of consecutive failures, the retry interval gradually increases. the first 10 retries are quick retry, and the follow-up retry interval gradually expands to 10 minutes, 30 minutes, 60 minutes one day. • NO_RETRY: there will be no retry until another user call or Alarm information is received.
InActivityStatus	String	Whether the auto scaling group is performing a scaling activity. IN_ACTIVITY indicates yes, a NOT_IN_ACTIVITY indicates no.
Tags	Array of Tag	List of auto scaling group tags
ServiceSettings	ServiceSettings	Service settings
Ipv6AddressCount	Integer	The number of IPv6 addresses that

		instance has. valid values: 0 and default value: 0, which means the instance does not allocate an IPv4 address. use a private network that supports ip and enable IPv6 CIDR for the subnet. for usage restrictions: IPv6 usage limits .
MultiZoneSubnetPolicy	String	Multi-AZ/subnet policy. • PRIORITY: The instances are attempted to be created taking the order of the AZ/subnet list as the priority. If the highest-priority AZ/subnet can create instances successfully, instances can always be created in that AZ/subnet. • EQUALITY: Select the AZ/subnet with the least number of instances to scale-out. In this way, each AZ/subnet has an opportunity to scale-out. Instances produced from multiple scale-out operations will be distributed to multiple AZs/subnets.
HealthCheckType	String	Scaling group instance health check type, whose valid values include: • CVM: Determine whether an instance is unhealthy based on its network status. An unhealthy network status is indicated by an event where instances become unreachable via PING. Detailed criteria of judgment can be found in Instance Health Check. • CLB: Determine whether an instance is unhealthy based on the health check status of CLB. For principles behind CLB health checks, see Health Check.
LoadBalancerHealthCheckGracePeriod	Integer	Grace period of the CLB health check. the scaled-out instances in <code>IN_SERVICE</code> will not be marked <code>CLB_UNHEALTHY</code> within the specified time range.

		Default value: 0. value range: [0, 7200]. measurement unit: second
InstanceAllocationPolicy	String	Instance assignment policy, whose valid values include LAUNCH_CONFIGURATION and SPOT_MIXED. - LAUNCH_CONFIGURATION: Represent the traditional mode of assigning instances according to launch configuration. - SPOT_MIXED: Represent the mixed mode. Currently, this mode is supported only when the launch configuration is set to the pay-as-you-go billing mode. In the mixed mode, the scaling group will scale pay-as-you-go models or spot models based on the predefined settings. When the mixed mode is used, the billing type of the associated launch configuration cannot be modified.
SpotMixedAllocationPolicy	SpotMixedAllocationPolicy	Specifies how to assign pay-as-you-go instances and spot instances. A valid value will be returned only when InstanceAllocationPolicy is set to SPOT_MIXED .
CapacityRebalance	Boolean	Capacity rebalancing feature, which is applicable only to spot instances within the scaling group. Valid values: TRUE: Enable this feature. When spot instances in the scaling group are about to be automatically recycled by the spot instance scheduler, AS proactively initiates the termination process of the spot instances. If there is a configured scale-in hook, it will be triggered before termination. After the termination process starts, AS asynchronously initiates the scaling

		to reach the expected number of instances. FALSE: Disable this feature. <i>A</i> waits for the spot instance to be terminated before scaling out to reach the number of instances expected by the scaling group.
InstanceNameIndexSettings	InstanceNameIndexSettings	Instance name sequencing settin

AutoScalingGroupAbstract

Brief information of a scaling group.

Used by actions: DescribeLaunchConfigurations.

Name	Type	Description
AutoScalingGroupId	String	Scaling group ID
AutoScalingGroupName	String	Auto scaling group name.

AutoScalingNotification

AS event notification

Used by actions: DescribeNotificationConfigurations.

Name	Type	Description
AutoScalingGroupId	String	Auto scaling group ID.
NotificationUserGroupIds	Array of String	List of user group IDs.
NotificationTypes	Array of String	Notification event list. valid values are as follows: - SCALE_OUT_SUCCESSFUL: scale-out succeeded . - SCALE_OUT_FAILED: scale-out failed . - SCALE_IN_SUCCESSFUL: scale-in succeeded . - SCALE_IN_FAILED: scale-in failed

		- REPLACE_UNHEALTHY_INSTANCE_SUCCESSFUL: unhealthy instance replacement succeeded - REPLACE_UNHEALTHY_INSTANCE_FAILED: unhealthy instance replacement failed
AutoScalingNotificationId	String	Event notification ID.
TargetType	String	Notification receiver type. valid values:. USER_GROUP: specifies the user group. TDMQ_CMQ_TOPIC: tdmq for cmq topic. TDMQ_CMQ_QUEUE: specifies the tdmq cmq queue. CMQ_QUEUE : cmq queue. cmq API offline . unable to select. CMQ_TOPIC: cmq topic. cmq API offline , unable to select.
QueueName	String	TDMQ CMQ queue name.
TopicName	String	TDMQ CMQ topic name.

DataDisk

Configuration information of data disk in launch configuration. If this parameter is not specified, no data disk will be purchased by default. You can specify only one data disk when purchasing it.

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
DiskType	String	No	Data disk type. for restrictions on data disk types, see block storage types . valid values:. - LOCAL_BASIC: local hard disk. - LOCAL_SSD: local ssd. - CLOUD_BASIC: general cloud disk. - CLOUD_PREMIUM: high-performance cloud block - CLOUD_SSD: cloud ssd - CLOUD_HSSD: enhanced ssd cloud disk

			• CLOUD_TSSD: ultra ssd. • CLOUD_BSSD: universal ssd cloud disk The default value is consistent with the system disk type (SystemDisk.DiskType).
DiskSize	Integer	No	Data disk size, in GB. the value range varies according to data disk type. for specific restrictions, see CVM instance configuration . default value: 0, which means no data disk purchased. for more restrictions, see the product documentation .
SnapshotId	String	No	The data disk snapshot ID can be obtained through the DescribeSnapshots api. Note: This field may return null, indicating that no valid snapshot can be obtained.
DeleteWithInstance	Boolean	No	Whether the data disk is terminated along with the instance. Valid values: • TRUE: When the instance is terminated, the data disk is also terminated. This option is only supported for hourly postpaid cloud disks. • FALSE: When the instance is terminated, the data disk is retained. Note: This field may return null, indicating that no valid value can be obtained.
Encrypt	Boolean	No	Whether the data disk is encrypted. Valid values: • TRUE: Encrypted. • FALSE: Not encrypted. Note: This field may return null, indicating that no valid value can be obtained.
ThroughputPerformance	Integer	No	Cloud disk performance (MB/s). This parameter is used to purchase extra performance for the cloud disk. For details of the feature and limits, see Enhanced SSD Performance (https://intl.cloud.tencent.com/document/product/360/44888 from_cn_redirect=1#_E5.A2.9E.E5.BC.BA.E5.9E.8B-E5.BA.91.E7.A1.AC.E7.9B.98.E9.A2.9D.E5.A4.96-E6.80.A7.E8.83.BD). This feature is only available to enhanced SSD (CLOUD_HSSD) and tremendous SSD (CLOUD_TSSD).

			with a capacity greater than 460 GB. Note: This field may return <code>null</code> , indicating that no value can be obtained.
BurstPerformance	Boolean	No	Burst performance. specifies whether to enable burst performance. default value is false. this parameter on supports ultra-fast CLOUD disk (CLOUD_TSSD) and SSD CLOUD disk (CLOUD_HSSD) with capacity > 460 GB. Note: this feature is in beta test and requires a ticket submitted for usage. Note: This field may return null, indicating that no value can be obtained.

DetailedStatusMessage

Detailed description of scaling activity status

Used by actions: DescribeAutoScalingActivities, DescribeAutoScalingGroupLastActivities.

Name	Type	Description
Code	String	Error type
Zone	String	AZ information
Instanceld	String	Instance ID
InstanceChargeType	String	Instance billing mode
SubnetId	String	Subnet ID
Message	String	Error message
InstanceType	String	Instance type

EnhancedService

This describes the conditions and configurations of the enhanced services of the instance, such as cloud security, cloud monitor, TencentCloud Automation Tools, and other instance agents.

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

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Name	Type	Required	Description
SecurityService	RunSecurityServiceEnabled	No	Enables the Cloud Security service. If this parameter is not specified, the Cloud Security service will be enabled by default.
MonitorService	RunMonitorServiceEnabled	No	Enables the Cloud Monitor service. If this parameter is not specified, the Cloud Monitor service will be enabled by default.
AutomationToolsService	RunAutomationServiceEnabled	No	Enable TAT service. If this parameter is not specified, the default logic is the same as that of the CVM instance. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

Filter

Describes key-value pair filters used for conditional queries, such as filtering results by ID, name and state.

- If there are multiple `Filter` parameters, the relationship among them will be logical `AND` .
- If there are multiple `Values` for the same `Filter` , the relationship among the `Values` for the same `Filter` will be logical `OR` .

Used by actions: DescribeAutoScalingActivities, DescribeAutoScalingGroups, DescribeAutoScalingInstances, DescribeLaunchConfigurations, DescribeLifecycleHooks, DescribeNotificationConfigurations, DescribeRefreshActivities, DescribeScalingPolicies, DescribeScheduledActions.

Name	Type	Required	Description
Name	String	Yes	Field to be filtered.
Values	Array of String	Yes	Filter value of the field.

ForwardLoadBalancer

Application load balancer

Used by actions: AttachLoadBalancers, CreateAutoScalingGroup, DescribeAutoScalingGroups, ModifyLoadBalancerTargetAttributes, ModifyLoadBalancers.

Name	Type	Required	Description
LoadBalancerId	String	Yes	ID of the load balancer. this parameter is required as an input parameter. you can obtain it through the DescribeLoadBalancers api.
ListenerId	String	Yes	CLB listener ID. as an input parameter, this parameter is required. you can obtain it through the DescribeLoadBalancers api.
TargetAttributes	Array of TargetAttribute	Yes	Target rule attribute list. as an input parameter, this parameter is required.
LocationId	String	No	The forwarding rule ID. note: this parameter is required for layer-7 (http/https) listeners. it can be obtained through the DescribeLoadBalancers api.
Region	String	No	The region of CLB instance. It defaults to the region of AS service and is in the format of the common parameter <code>Region</code> , such as <code>ap-guangzhou</code> .

ForwardLoadBalancerIdentification

Application CLB IDs

Used by actions: DetachLoadBalancers.

Name	Type	Required	Description
LoadBalancerId	String	Yes	ID of the CLB
ListenerId	String	Yes	Application CLB listener ID
LocationId	String	No	ID of a forwarding rule. This parameter is required for layer-7 listeners.

HostNameSettings

CVM HostName settings

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
HostName	String	Yes	CVM HostName. - Dots (.) and hyphens (–) cannot be used as the first or last character of HostName, and cannot be used consecutively. - Windows instances are not supported. - Instances of other types (e.g., Linux): The length of the character should be within the range of [2, 40]. Multiple dots (.) are allowed. Each segment between dot marks can consist of letters (case-insensitive), digits, and hyphens (–). Using only digits is not allowed. Note: This field may return null, indicating that no valid values can be obtained.
HostNameStyle	String	No	The style of the CVM HostName. Valid values include ORIGINAL and UNIQUE, and the default value is ORIGINAL. - ORIGINAL: AS passes HostName filled in the input parameters to CVM. CVM may append serial numbers to HostName, which can result in conflicts with HostName of instances in the scaling group. - UNIQUE: HostName filled in the input parameters acts as a prefix for the HostName. AS and CVM will expand this prefix to ensure that HostName of the instance in the scaling group is unique. Note: This field may return null, indicating that no valid values can be obtained.
HostNameSuffix	String	No	HostName suffix for CVM. - Dots (.) and hyphens (–) cannot be used as the first or last character of HostNameSuffix, and cannot be used consecutively. - Windows instances are not supported. - Instances of other types (e.g., Linux): The length of the character should be within the range of [1, 37], and the combined length with HostName should not exceed 39.

			Multiple dots (.) are allowed. Each segment between dots can consist of letters (case-insensitive), digits, and hyphens (-). Assume the suffix name is suffix and the original HostName is test.0, then the final HostName is test.0.suffix. Note: This field may return null, indicating that no valid values can be obtained.
--	--	--	--

IPv6InternetAccessible

This describes the IPv6 address public network accessibility of the instance created by a launch configuration and declares the public network usage billing method of the IPv6 address and the maximum bandwidth.

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
InternetChargeType	String	No	Network billing mode. Valid values: TRAFFIC_POSTPAID_BY_HOUR, BANDWIDTH_PACKAGE. Default value: TRAFFIC_POSTPAID_BY_HOUR. For the current account type, see Account Type Description. - IPv6 supports <code>TRAFFIC_POSTPAID_BY_HOUR</code> under a bill-by-IP account. - IPv6 supports <code>BANDWIDTH_PACKAGE</code> under a bill-by-CVM account. Note: This field may return <code>null</code>, indicating that no valid values can be obtained.
InternetMaxBandwidthOut	Integer	No	Outbound bandwidth cap of the public network (in Mbps). It defaults to <code>0</code>, which indicates no public network bandwidth is allocated to IPv6. The value range of bandwidth caps varies with the model, availability zone and billing mode. For more information, see Public Network Bandwidth Cap.

			Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
BandwidthPackageId	String	No	Bandwidth package ID. You can obtain the ID from the <code>BandwidthPackageId</code> field in the response of the DescribeBandwidthPackages API. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

Instance

Instance information

Used by actions: DescribeAutoScalingInstances.

Name	Type	Description
InstanceId	String	Instance ID
AutoScalingGroupId	String	Auto scaling group ID
LaunchConfigurationId	String	Launch configuration ID
LaunchConfigurationName	String	Launch configuration name
LifeCycleState	String	Lifecycle status. valid values are as follows: • <code>IN_SERVICE</code>: running • <code>CREATING</code>: specifies the instance is being created. • <code>CREATION_FAILED</code>: creation failed. • <code>TERMINATING</code> : the instance is being terminated. • <code>TERMINATION_FAILED</code> : the instance fails to be terminated. • <code>ATTACHING</code>: binding • <code>ATTACH_FAILED</code> : the instance fails to be bound. • <code>DETACHING</code>: specifies the unbinding is in progress. • <code>DETACH_FAILED</code> : the instance fails to be unbound.

		• <code>ATTACHING_LB</code> : binding to lb • <code>DETACHING_LB</code>: the lb is being unbound. • <code>MODIFYING_LB</code> : the lb is being modified. • <code>STARTING</code> : the instance is being started up. • <code>START_FAILED</code> : the instance fails to be started up. • <code>STOPPING</code> : the instance is being shut down. • <code>STOP_FAILED</code> : the instance fails to be shut down. • <code>STOPPED</code> : the instance is shut down. • <code>IN_LAUNCHING_HOOK</code> : the lifecycle hook is being scaled out. • <code>IN_TERMINATING_HOOK</code> : the lifecycle hook is being scaled in.
HealthStatus	String	Health status. valid values are as follows: • <code>HEALTHY</code>: the instance is in Healthy status. • <code>UNHEALTHY</code>: instance ping unreachable • <code>CLB_UNHEALTHY</code>: the instance port listened by clb is unhealthy
ProtectedFromScaleIn	Boolean	Whether to add scale-in protection
Zone	String	Availability zone
CreationType	String	Creation type. Value range: <code>AUTO_CREATION</code> , <code>MANUAL_ATTACHING</code> .
AddTime	Timestamp ISO8601	Instance join time is displayed in a format that conforms to the ISO8601 standard and uses UTC time.
InstanceType	String	Instance type
VersionNumber	Integer	Version number

AutoScalingGroupName	String	Auto scaling group name
WarmupStatus	String	Preheat status. valid values are as follows: • WAITING_ENTER_WARMUP: specifies the instance is waiting to enter preheating. • <code>NO_NEED_WARMUP</code> : warming up is not required. • IN_WARMUP: preheating. • AFTER_WARMUP: indicates the preheating is completed.
DisasterRecoverGroupIds	Array of String	Placement group ID. Only one can be specified.

InstanceChargePrepaid

This API is used to describe the billing mode of an instance.

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
Period	Integer	Yes	Purchased usage period of an instance in months. Value range: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36.
RenewFlag	String	No	Auto-renewal flag. Valid values: • NOTIFY_AND_AUTO_RENEW: Notify upon expiration and automatically renew. • NOTIFY_AND_MANUAL_RENEW: Notify upon expiration but do not auto-renew. • DISABLE_NOTIFY_AND_MANUAL_RENEW: Do not notify and do not auto-renew Default value: NOTIFY_AND_MANUAL_RENEW. If this parameter is set to NOTIFY_AND_AUTO_RENEW, and the account balance is sufficient, the instance will automatically renew monthly upon its expiration date.

InstanceMarketOptionsRequest

Options related to a CVM bidding request

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
SpotOptions	SpotMarketOptions	Yes	Bidding-related options
MarketType	String	No	Market option type. The value can only be spot currently.

InstanceNameIndexSettings

Instance name sequencing settings.

Used by actions: CreateAutoScalingGroup, DescribeAutoScalingGroups, ModifyAutoScalingGroup.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable instance creation sequencing, which is disabled by default. Valid values: - TRUE: Indicates that instance creation sequencing is enabled. - FALSE: Indicates that instance creation sequencing is disabled. Note: This field may return null, indicating that no valid value can be obtained.
BeginIndex	Integer	No	Initial sequence number, with a value range of [0, 99,999,999]. When the sequence number exceeds this range after incrementing, scale-out activities will fail. - Upon the first enabling of instance name sequencing: The default value is 0. - Upon the enabling of instance name sequencing (not for the first time): If this parameter is not specified, the historical sequence number will be carried forward. Lowering the initial sequence number may result in duplicate instance name sequences within the scaling group. Note: This field may return null, indicating that no valid value can be obtained.

InstanceNameSettings

Settings of CVM instance names.

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
InstanceName	String	Yes	CVM instance name. Value range: 2–108.
InstanceNameStyle	String	No	Type of CVM instance name. Valid values: <code>ORIGINAL</code> and <code>UNIQUE</code> . Default value: <code>ORIGINAL</code> . <code>ORIGINAL</code> : Auto Scaling sends the input parameter <code>InstanceName</code> to the CVM directly. The CVM may append a serial number to the <code>InstanceName</code> . The <code>InstanceName</code> of the instances within the scaling group may conflict. <code>UNIQUE</code> : the input parameter <code>InstanceName</code> is the prefix of an instance name. Auto Scaling and CVM expand it. The <code>InstanceName</code> of an instance in the scaling group is unique.
InstanceNameSuffix	String	No	CVM instance name suffix. The length of the character is within the range of [1, 105], and the combined length with InstanceName should not exceed 107. Assume the suffix name is suffix and the original instance name is test.0, then the final instance name is test.0.suffix. Note: This field may return null, indicating that no valid values can be obtained.

InstanceTag

Instance tag. This parameter is used to bind tags to newly added instances.

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
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Key	String	Yes	Tag key
Value	String	Yes	Tag value

InternetAccessible

This describes the internet accessibility of the instance created by a launch configuration and declares the internet usage billing method of the instance and the maximum bandwidth

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
InternetChargeType	String	No	Network billing type. Valid values: - BANDWIDTH_PREPAID: prepaid by bandwidth; - TRAFFIC_POSTPAID_BY_HOUR: postpaid by traffic per hour; - BANDWIDTH_POSTPAID_BY_HOUR: postpaid by bandwidth per hour; - BANDWIDTH_PACKAGE: bandwidth package users. Default value: TRAFFIC_POSTPAID_BY_HOUR. Note: This field may return null, indicating that no valid values can be obtained.
InternetMaxBandwidthOut	Integer	No	The maximum outbound bandwidth in Mbps of the public network. The default value is 0 Mbps. The upper limit of bandwidth varies by model. For more information, see Purchase Network Bandwidth . Note: This field may return null, indicating that no valid values can be obtained.
PublicIpAssigned	Boolean	No	Whether to assign a public IP address. Valid values: - TRUE: Allocate a public IP address. - FALSE: Do not allocate a public IP address. When the public network bandwidth is greater than 0 Mbps, you can choose whether to enable this feature based on your needs. By default, this feature is enabled. When the public network bandwidth is 0, public IP address assignment is not allowed.

			Note: This field may return null, indicating that no valid values can be obtained.
BandwidthPackageId	String	No	Bandwidth package ID. You can obtain the ID from the <code>BandwidthPackageId</code> field in the response of the DescribeBandwidthPackages API. Note: this field may return null, indicating that no valid value was found.
InternetServiceProvider	String	No	Describes the line type. For details, refer to EIP Product Overview. default value: <code>BGP</code>. - BGP: general bgp line. For a user who has enabled the static single-line IP allowlist, valid values include: - CMCC: China Mobile - CTCC: China Telecom - CUCC: China Unicom Note: Only certain regions support static single-line IP addresses.
IPv4AddressType	String	No	Type of public IP address. - WanIP: Ordinary public IP address. - HighQualityEIP: High Quality EIP is supported only in Singapore and Hong Kong. - AntiDDoSEIP: Anti-DDoS IP is supported only in specific regions. For details, see EIP Product Overview. Specify the type of public IPv4 address to assign a public IPv4 address to the resource. HighQualityEIP and AntiDDoSEIP features are gradually released in select regions. For usage, submit a ticket for consultation.
AntiDDoSPackageId	String	No	Anti-DDoS service package ID. This is required when you want to request an Anti-DDoS IP.
IsKeepEIP	Boolean	No	Whether to delete the bound EIP(HighQualityEIP and AntiDDoSEIP) when the instance is destroyed.

Range of values:

- TRUE: retain the EIP
- FALSE: not retain the EIP

Note that when the IPv4AddressType field specifies the EIP type, the default behavior is not to retain the EIP.
WanIP is unaffected by this field and will always be deleted with the instance.
Changing this field configuration will take effect immediately for resources already bound to a scaling group.

InvocationResult

Result of the command execution

Used by actions: DescribeAutoScalingActivities, DescribeAutoScalingGroupLastActivities.

Name	Type	Description
InstanceId	String	Instance ID.
InvocationId	String	Execution activity ID.
InvocationTaskId	String	Task ID.
CommandId	String	Command ID.
TaskStatus	String	Specifies the execution task status.
ErrorMessage	String	Specifies the exception information during execution.

LaunchConfiguration

Information set of eligible launch configurations.

Used by actions: DescribeLaunchConfigurations.

Name	Type	Description
ProjectId	Integer	Project ID of the instance.

LaunchConfigurationId	String	Launch configuration ID
LaunchConfigurationName	String	Launch configuration name
InstanceType	String	Instance model.
SystemDisk	SystemDisk	Information of the instance
DataDisks	Array of DataDisk	Information of the instance
LoginSettings	LimitedLoginSettings	Instance login settings.
InternetAccessible	InternetAccessible	Information of the public ne
SecurityGroupIds	Array of String	Security group of the instar
AutoScalingGroupAbstractSet	Array of AutoScalingGroupAbstract	Auto scaling group associa
UserData	String	Custom data. Note: This field may return can be obtained.
CreatedTime	Timestamp ISO8601	Specifies the startup config standard time.
EnhancedService	EnhancedService	Conditions of enhancement settings.
ImageId	String	Image ID.
LaunchConfigurationStatus	String	Current status of the launc • NORMAL: Normal. • IMAGE_ABNORMAL: Im configuration. • CBS_SNAP_ABNORMAL in the launch configuration. • SECURITY_GROUP_ABN in the launch configuration.
InstanceChargeType	String	Instance billing type. valid v • POSTPAID_BY_HOUR: p • • SPOTPAID: spot paymer • • PREPAID: prepaid, i.e., r • • CDCPAID: dedicated clu

		.
InstanceMarketOptions	InstanceMarketOptionsRequest	Market options of the instance spot instances. This parameter Note: This field may return can be obtained.
InstanceTypes	Array of String	List of instance models.
InstanceTags	Array of InstanceTag	List of instance tags, which by the scale-out activity. U
Tags	Array of Tag	Tag list. this parameter specifies launch configuration and was scaled out based on it.
VersionNumber	Integer	Version
UpdateTime	Timestamp ISO8601	Last update time is in stan
CamRoleName	String	Role name of the CAM role the return value from the D (https://intl.cloud.tencent.c from_cn_redirect=1).
LastOperationInstanceTypesCheckPolicy	String	Value of InstanceTypesChe
HostNameSettings	HostNameSettings	CVM hostname settings.
InstanceNameSettings	InstanceNameSettings	Settings of CVM instance r
InstanceChargePrepaid	InstanceChargePrepaid	Details of the monthly subscription period, auto-renewal. It is r <code>InstanceChargeType</code> i
DiskTypePolicy	String	Cloud disk type selection policy - ORIGINAL: Use the set c - AUTOMATIC: Automatic in the current availability zc
HpcClusterId	String	HPC ID Note: This field is default to
IPv6InternetAccessible	IPv6InternetAccessible	IPv6 public network bandwi
DisasterRecoverGroupIds	Array of String	Placement group ID, suppo

ImageFamily	String	Image family name.
DedicatedClusterId	String	CDC ID.

LifecycleActionResultInfo

Result information of the lifecycle hook action

Used by actions: DescribeAutoScalingActivities, DescribeAutoScalingGroupLastActivities.

Name	Type	Description
LifecycleHookId	String	ID of the lifecycle hook
InstanceId	String	ID of the instance
InvocationId	String	Execution task ID. You can query the result by using the DescribeInvocations API of TAT.
InvokeCommandResult	String	Result of command invocation, <code>SUCCESSFUL</code> : Successful command invocation. It does mean that the task is successfully. You can query the task result with the <code>InvocationId.</code> <code>FAILED</code> : Failed to invoke the command <code>NONE</code>
NotificationResult	String	Notification result, which indicates whether it is successful to notify CMQ/TDMQ. <code>SUCCESSFUL</code>: It is successful to notify CMQ/TDMQ. <code>FAILED</code>: It is failed to notify CMQ/TDMQ. <code>NONE</code>
LifecycleActionResult	String	Result of the lifecycle hook action. Values: CONTINUE, ABANDON
ResultReason	String	Reason of the result <code>HEARTBEAT_TIMEOUT</code> : Heartbeat timed out. The setting of <code>DefaultResult</code> is used. <code>NOTIFICATION_FAILURE</code> : Failed to send the notification. The setting of <code>DefaultResult</code> is used. <code>CALL_INTERFACE</code> : Calls the <code>CompleteLifecycleAction</code> to set the result <code>ANOTHER_ACTION_ABANDON</code>: It has been set to <code>ABANDON</code> by another operation.

		- COMMAND_CALL_FAILURE: Failed to call the command. The DefaultResult is applied. - COMMAND_EXEC_FINISH: Command completed - COMMAND_CALL_FAILURE: Failed to execute the command. The DefaultResult is applied. - COMMAND_EXEC_RESULT_CHECK_FAILURE: Failed to check the command result. The DefaultResult is applied.
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LifecycleCommand

Remote command execution object.

Used by actions: CreateLifecycleHook, DescribeLifecycleHooks, ModifyLifecycleHook, UpgradeLifecycleHook.

Name	Type	Required	Description
CommandId	String	Yes	Remote command ID. this item is required if you select to execute command.
Parameters	String	No	Custom parameter. field type is json encoded string, for example: {"varA": "222"}. key specifies the custom parameter name, and value specifies the default. both are string type. If the parameter value is not provided, the DefaultParameters of Command will be used to replace it. Custom parameters support a maximum of 20 entries. the custom parameter name must meet the following standard: number of characters has a cap of 64, value range [a-zA-Z0-9-_.].

LifecycleHook

Lifecycle hook

Used by actions: DescribeLifecycleHooks.

Name	Type	Description
LifecycleHookId	String	Lifecycle hook ID
LifecycleHookName	String	Lifecycle hook name

AutoScalingGroupId	String	Auto scaling group ID
DefaultResult	String	Action to be taken by the scaling group in case of lifecycle hook timeout or LifecycleCommand execution failure. valid values: –CONTINUE execution by default means capacity expansion or reduction. –For scale–out hooks, cvms with hook timeout or failed LifecycleCommand execution will be released directly or removed; for scale–in hooks, scale–in activities will continue.
HeartbeatTimeout	Integer	Specifies the timeout waiting time of the lifecycle hook in seconds. value range: 30 to 7200.
LifecycleTransition	String	Scenario for entering the lifecycle hook. valid values: – <code>INSTANCE_LAUNCHING</code> : the lifecycle hook is being scaled out. –<code>INSTANCE_TERMINATING</code>: scale–in lifecycle hook.
NotificationMetadata	String	Additional information for the notification target
CreatedTime	Timestamp ISO8601	Creation time. uses UTC for timing.
NotificationTarget	NotificationTarget	Notification target
LifecycleTransitionType	String	Specifies the scenario type for performing the lifecycle hook. valid values: NORMAL and EXTENSION. default value: NORMAL. Description: when set to <code>EXTENSION</code> , the lifecycle hook will be triggered during <code>AttachInstances</code> , <code>DetachInstances</code> , or <code>RemoveInstances</code> API calls. if set to <code>NORMAL</code> , the lifecycle hook will not be triggered by these apis.
LifecycleCommand	LifecycleCommand	Remote command execution object.

LimitedLoginSettings

This describes the configuration and information related to instance login. For security reasons, sensitive information is not described.

Used by actions: DescribeLaunchConfigurations.

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Name	Type	Description
KeyIds	Array of String	List of key IDs.

LoginSettings

Describes login settings of an instance.

Used by actions: `CreateLaunchConfiguration`, `ModifyLaunchConfigurationAttributes`, `UpgradeLaunchConfiguration`.

Name	Type	Required	Description
Password	String	No	Instance login password. The password complexity requirements vary according to the operating system type. The details are as follows: – For a Linux system, the password should contain 8 to 30 characters consisting of at least two of the four character types: lowercase letters, uppercase letters, digits, and special characters. – For a Windows system, the password should contain 12 to 30 characters consisting of at least three of the four character types: lowercase letters, uppercase letters, digits, and special characters. – If this parameter is not specified, the system will generate a random password and notify the user via the message centerSupported special characters: () ` ~ ! @ # \$ % ^ & * - + = { } [] : ; ' , . ? /
KeyIds	Array of String	No	List of key ids. after associating a key, you can access the instance through the corresponding private key. KeyId can be obtained by calling the api DescribeKeyPairs . key and password cannot be specified simultaneously. the Windows operating system does not support specifying a key. currently, only one key can be specified during purchase.
KeepImageLogin	Boolean	No	Retain the original settings of the image. This parameter cannot be specified simultaneously with Password or KeyIds.N. It can only be set to TRUE when you create an instance by using a custom image, shared image, or externally imported image. Valid values: • TRUE: Retain the login settings of the image. • FALSE: Do not retain the login settings of the image.

			Default value: FALSE.
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Metadata

Custom Metadata

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes.

Name	Type	Required	Description
Items	Array of Metadataltem	No	Custom metadata key-value pair list.

Metadataltem

A set of key-value pair information for custom Metadata

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes.

Name	Type	Required	Description
Key	String	Yes	Custom metadata key.
Value	String	Yes	Custom metadata value.

MetricAlarm

Alarming metric of AS

Used by actions: CreateScalingPolicy, DescribeScalingPolicies, ModifyScalingPolicy.

Name	Type	Required	Description
ComparisonOperator	String	Yes	Comparison operator. Value range: - GREATER_THAN: greater than - GREATER_THAN_OR_EQUAL_TO: greater than or equal to - LESS_THAN: less than - LESS_THAN_OR_EQUAL_TO: less than or equal to - EQUAL_TO: equal to - NOT_EQUAL_TO: not equal to

MetricName	String	Yes	Metric names, with the following optional fields: - CPU_UTILIZATION: CPU utilization. - MEM_UTILIZATION: Memory utilization. - LAN_TRAFFIC_OUT: Private network outbound bandwidth. - LAN_TRAFFIC_IN: Private network inbound bandwidth. - WAN_TRAFFIC_OUT: Public network outbound bandwidth. - WAN_TRAFFIC_IN: Public network inbound bandwidth. - TCP_CURR_ESTAB: TCP connections.
Threshold	Integer	Yes	Alarm threshold values: - CPU_UTILIZATION: [1, 100], Unit: %. - MEM_UTILIZATION: [1, 100], Unit: %. - LAN_TRAFFIC_OUT: >0, Unit: Mbps. - LAN_TRAFFIC_IN: >0, Unit: Mbps. - WAN_TRAFFIC_OUT: >0, Unit: Mbps. - WAN_TRAFFIC_IN: >0, Unit: Mbps. - TCP_CURR_ESTAB: >0, Unit: Count.
Period	Integer	Yes	Time period in seconds. Enumerated values: 60, 300.
ContinuousTime	Integer	Yes	Number of repetitions. Value range: [1, 10]
Statistic	String	No	Statistics type. Value range: - AVERAGE: average - MAXIMUM: maximum - MINIMUM: minimum Default value: AVERAGE
PreciseThreshold	Float	No	Precise alarm threshold values. This parameter is not used as an input argument but is used solely as an output parameter for the query API: - CPU_UTILIZATION: (0, 100], Unit: %. - MEM_UTILIZATION: (0, 100], Unit: %. - LAN_TRAFFIC_OUT: >0, Unit: Mbps. - LAN_TRAFFIC_IN: >0, Unit: Mbps. - WAN_TRAFFIC_OUT: >0, Unit: Mbps. - WAN_TRAFFIC_IN: >0, Unit: Mbps. - TCP_CURR_ESTAB: >0, Unit: Count.

NotificationTarget

Notification target

Used by actions: CreateLifecycleHook, DescribeLifecycleHooks, ModifyLifecycleHook, UpgradeLifecycleHook.

Name	Type	Required	Description
TargetType	String	Yes	Target type. valid values include <code>CMQ_QUEUE</code> , <code>CMQ_TOPIC</code> , <code>TDMQ_CMQ_QUEUE</code> , <code>TDMQ_CMQ_TOPIC</code> . <code>CMQ_QUEUE</code>, specifies tencent cloud message QUEUE – queueing model. the corresponding product is offline. it is recommended to switch to <code>TDMQ_CMQ_QUEUE</code> (https://intl.cloud.tencent.com/document/product/1496/83970?from_cn_redirect=1). <code>CMQ_TOPIC</code>, specifies tencent cloud message queue – TOPIC model. the corresponding product is offline. it is recommended to switch to <code>TDMQ_CMQ_TOPIC</code> (https://intl.cloud.tencent.com/document/product/1496/83970?from_cn_redirect=1). <code>TDMQ_CMQ_QUEUE</code>. specifies the tencent cloud TDMQ message QUEUE – queueing model. <code>TDMQ_CMQ_TOPIC</code>. specifies tencent cloud tdmq message queue – topic model.
QueueName	String	No	Queue name. This parameter is required when <code>TargetType</code> is <code>CMQ_QUEUE</code> or <code>TDMQ_CMQ_QUEUE</code> .
TopicName	String	No	Topic name. This parameter is required when <code>TargetType</code> is <code>CMQ_TOPIC</code> or <code>TDMQ_CMQ_TOPIC</code> .

RefreshActivity

Instance refresh activity.

Used by actions: DescribeRefreshActivities.

Name	Type	Description

AutoScalingGroupID	String	Scaling group ID.
RefreshActivityId	String	Refresh activity ID.
OriginRefreshActivityId	String	Original refresh activity ID. exists only in rollback refresh activity.
RefreshBatchSet	Array of RefreshBatch	Refresh batch information list.
RefreshMode	String	Refresh mode. valid values as follows: - ROLLING_UPDATE_RESET: reinstall the system for rolling updates. - ROLLING_UPDATE_REPLACE: Create an instance and replace the old instance with it for rolling updates. This mode does not support the rollback API currently.
RefreshSettings	RefreshSettings	Instance update setting parameters.
ActivityType	String	Refresh activity type. Valid values: - NORMAL: normal refresh activity. - ROLLBACK: rollback refresh activity.
Status	String	Refresh activity status. Valid values: - INIT: initializing. - RUNNING: running. - SUCCESSFUL: successful. - FAILED_PAUSE: paused due to the failure of a refresh batch. - AUTO_PAUSE: automatically paused due to the pause policy. - MANUAL_PAUSE: manually paused. - CANCELLED: canceled. - FAILED: failed.
CurrentRefreshBatchNum	Integer	Current refresh batch number. for example, 2 indicates the second batch of instances is being refreshed by the current activity.
StartTime	Timestamp ISO8601	The activity start time is refreshed in standard <code>UTC</code> time, in the format <code>YYYY-MM-DDTHH:MM:ssZ</code> . Note: This field may return null, indicating that no valid values can be obtained.
EndTime	Timestamp ISO8601	Refresh activity end time, in standard UTC time, in the format <code>YYYY-MM-DDTHH:MM:ssZ</code> .

		Note: This field may return null, indicating that no valid values can be obtained.
CreatedTime	Timestamp ISO8601	Refresh activity creation time, in standard UTC time, in the format YYYY-MM-DDTHH:MM:ssZ.

RefreshBatch

Instance refresh batch information, containing the refresh status, instances, start and end time, etc., of the batch.

Used by actions: DescribeRefreshActivities.

Name	Type	Description
RefreshBatchNum	Integer	Refresh batch number. For example, a value of 2 indicates that the current batch of instances will be refreshed in the second batch.
RefreshBatchStatus	String	Refresh batch status. Valid values: • WAITING: pending refresh; • INIT: initializing; • RUNNING: refreshing; • FAILED: refresh failed; • PARTIALLY_SUCCESSFUL: partially successful in the batch; • CANCELLED: cancelled; • SUCCESSFUL: refresh successful.
RefreshBatchRelatedInstanceSet	Array of RefreshBatchRelatedInstance	List of instances linked to a refresh batch.
StartTime	Timestamp ISO8601	Refresh batch start time. Note: This field may return null, indicating that no valid value can be obtained.
EndTime	Timestamp ISO8601	Refresh batch end time. Note: This field may return null, indicating that no valid value can be obtained.

RefreshBatchRelatedInstance

Refresh batch associated instances, including the refresh activity status of individual instances and related scaling activity information.

Used by actions: DescribeRefreshActivities.

Name	Type	Description
InstanceId	String	Instance ID.
InstanceStatus	String	Refresh instance status. if the instance is removed or terminated during refresh, the status will be updated to NOT_FOUND. valid values: • WAITING: pending refresh; • INIT: initializing; • RUNNING: refreshing; • FAILED: refresh FAILED; • CANCELLED: CANCELLED; • SUCCESSFUL: refresh SUCCESSFUL; • NOT_FOUND: instance does NOT exist. •
LastActivityId	String	The most recent scaling activity ID during instance refresh can be queried via the DescribeAutoScalingActivities api. Please note that scaling activities differ from instance refresh activities; a single instance refresh activity may involve multiple scaling activities.
InstanceStatusMessage	String	Describes the instance refresh status.

RefreshSettings

Instance refresh settings.

Used by actions: DescribeRefreshActivities, RollbackInstanceRefresh, StartInstanceRefresh.

Name	Type	Required	Description
RollingUpdateSettings	RollingUpdateSettings	Yes	Rolling update settings parameters. RefreshMode is rolling update. this parameter must be filled in.

CheckInstanceTargetHealth	Boolean	No	Whether to enable the backend service health check for the instance. Default value: FALSE. This parameter is valid only for the scaling group bound to an application-based CLB. After this feature is enabled, if the instance fails the check after refresh, the port weight of the CLB will be always 0, and it will be marked as a refresh failure. Valid values: - TRUE: enable; - FALSE: disable.
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RelatedInstance

Information of the instances related to the current scaling activity.

Used by actions: DescribeAutoScalingActivities, DescribeAutoScalingGroupLastActivities.

Name	Type	Description
InstanceId	String	Instance ID
InstanceStatus	String	Status of the instance in the scaling activity. Valid values: INIT : Initializing RUNNING : Processing the instance SUCCESSFUL : Task succeeded on the instance FAILED : Task failed on the instance

RollingUpdateSettings

Rolling update settings.

Used by actions: DescribeRefreshActivities, RollbackInstanceRefresh, StartInstanceRefresh.

Name	Type	Required	Description
BatchNumber	Integer	Yes	Batch quantity. The batch quantity should be a positive integer greater than 0, but cannot exceed the total number of instances pending refresh.
BatchPause	String	No	Pause policy between batches. Default value: Automatic. Valid

			values: - FIRST_BATCH_PAUSE: Pause after the first batch of updates is completed. - BATCH_INTERVAL_PAUSE: Pause between batches. - AUTOMATIC: Do not pause.
MaxSurge	Integer	No	The maximum additional quantity of instances. After this parameter is set, create a batch of additional pay-as-you-go instances according to the launch configuration before the rolling update starts. After the rolling update is completed, the additional instances will be terminated.This parameter is used to ensure a certain number of instances available during the rolling update. The maximum additional quantity of instances cannot exceed the number of refreshing instances in a single batch of the rolling update. The rollback process does not support this parameter currently.
FailProcess	String	No	Failure handling strategy. default value: AUTO_PAUSE. valid values:. - AUTO_PAUSE: suspended after refresh fails . - AUTO_ROLLBACK: roll back after a refresh fails. each batch rolls back one instance during ROLLBACK, and the CheckInstanceTargetHealth parameter value matches the original refresh activity. no need to roll back if the shrinkage process introduced by the MaxSurge parameter fails. a cancel action will replace the ROLLBACK. . - AUTO_CANCEL: cancel after refresh fails .

RunAutomationServiceEnabled

Status of TAT service.

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable TencentCloud Automation Tools. Valid values: - TRUE : Enable - FALSE : Not enable. Note: This field may return <code>null</code> , indicating that no valid values

			can be obtained.
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RunMonitorServiceEnabled

Information related to Tencent Cloud Observability Platform (TCOP, formerly Cloud Monitor).

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable Tencent Cloud Observability Platform (formerly Cloud Monitor) (TCOP). Valid values: - TRUE: enable TCOP. - FALSE: disable TCOP. Default value: TRUE.

RunSecurityServiceEnabled

This describes the information on the Cloud Security service

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable Cloud Workload Protection Platform (CWPP) . Valid values: - TRUE: enable CWPP. - FALSE: disable CWPP. Default value: TRUE.

ScalingPolicy

Alarm trigger policy.

Used by actions: DescribeScalingPolicies.

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Name	Type	Description
AutoScalingGroupId	String	Auto scaling group ID.
AutoScalingPolicyId	String	Alarm trigger policy ID.
ScalingPolicyType	String	Scaling policy type. Valid values: <code>SIMPLE</code> : A simple policy. <code>TARGET_TRACKING</code> : A target tracking policy.
ScalingPolicyName	String	Alarm trigger policy name.
AdjustmentType	String	The method to adjust the desired capacity after the alarm is triggered. It's only available when <code>ScalingPolicyType</code> is <code>Simple</code> . Valid values: <code>CHANGE_IN_CAPACITY</code> : Increase or decrease the desired capacity <code>EXACT_CAPACITY</code> : Adjust to the specified desired capacity <code>PERCENT_CHANGE_IN_CAPACITY</code> : Adjust the desired capacity by percentage
AdjustmentValue	Integer	The adjusted value of desired capacity after the alarm is triggered. This parameter is only applicable to a simple policy.
Cooldown	Integer	Cooldown duration in seconds, applies only to simple policies. value range [0,3600]. default cooldown: 300 seconds.
MetricAlarm	MetricAlarm	Alarm monitoring metrics of a simple policy.
PredefinedMetricType	String	Preset monitoring item. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code> . Valid values: <code>ASG_AVG_CPU_UTILIZATION</code>: Average CPU utilization <code>ASG_AVG_LAN_TRAFFIC_OUT</code>: Average private bandwidth out <code>ASG_AVG_LAN_TRAFFIC_IN</code>: Average private bandwidth in <code>ASG_AVG_WAN_TRAFFIC_OUT</code>: Average public bandwidth out <code>ASG_AVG_WAN_TRAFFIC_IN</code>: Average public bandwidth in Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

TargetValue	Integer	Target value. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code> . Value ranges: <code>ASG_AVG_CPU_UTILIZATION</code> (in %): [1, 100) <code>ASG_AVG_LAN_TRAFFIC_OUT</code> (in Mbps): >0 <code>ASG_AVG_LAN_TRAFFIC_IN</code> (in Mbps): >0 <code>ASG_AVG_WAN_TRAFFIC_OUT</code> (in Mbps): >0 <code>ASG_AVG_WAN_TRAFFIC_IN</code> (in Mbps): >0 Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
EstimatedInstanceWarmup	Integer	Instance warm-up period (in seconds). It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code> . Value range: 0–3600. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
DisableScaleIn	Boolean	Whether to disable scale-in. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code> . Valid values: <code>true</code> : Scaling in is not allowed. <code>false</code> : Allows both scale-out and scale-in Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
MetricAlarms	Array of MetricAlarm	List of alarm monitoring metrics. This parameter is only applicable to a target tracking policy. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
NotificationUserGroupIds	Array of String	Notification group ID, which is the set of user group IDs.

ScheduledAction

This describes the information of a scheduled task.

Used by actions: DescribeScheduledActions.

Name	Type	Description

ScheduledActionId	String	Scheduled task ID.
ScheduledActionName	String	Scheduled task name.
AutoScalingGroupId	String	ID of the auto scaling group where the scheduled task is located.
StartTime	Timestamp ISO8601	Start time of the scheduled task. The value is in <code>Beijing time</code> (UTC+8) in the format of <code>YYYY-MM-DDThh:mm:ss+08:00</code> according to the <code>ISO8601</code> standard.
Recurrence	String	Specifies the repeating mode of the scheduled task. the Recurrence parameter limits (https://intl.cloud.tencent.com/document/product/377/88119?from_cn_redirect=1) consist of 5 fields separated by space, with the structure: minute, hour, date, month, week.
EndTime	Timestamp ISO8601	End time of the scheduled task. The value is in <code>Beijing time</code> (UTC+8) in the format of <code>YYYY-MM-DDThh:mm:ss+08:00</code> according to the <code>ISO8601</code> standard.
MaxSize	Integer	Maximum number of instances set by the scheduled task.
DesiredCapacity	Integer	Desired number of instances set by the scheduled task.
MinSize	Integer	Minimum number of instances set by the scheduled task.
CreatedTime	Timestamp ISO8601	The creation time of the scheduled task. value is in standard <code>UTC</code> time, formatted as <code>YYYY-MM-DDThh:mm:ssZ</code> according to the <code>ISO8601</code> standard.
ScheduledType	String	Scheduled task execution type. Valid values: • CRONTAB: repeated execution. • ONCE: single execution.

ServiceSettings

Service settings

Used by actions: CreateAutoScalingGroup, DescribeAutoScalingGroups, ModifyAutoScalingGroup.

Name	Type	Required	Description
ReplaceMonitorUnhealthy	Boolean	No	Enables unhealthy instance replacement. If this feature is

			enabled, AS will replace instances that are flagged as unhealthy by Cloud Monitor. If this parameter is not specified, the value will be False by default.
ScalingMode	String	No	Valid values: CLASSIC_SCALING: this is the typical scaling method, which creates and terminates instances to perform scaling operations. WAKE_UP_STOPPED_SCALING: this scaling method first tries to start stopped instances. If the number of instances woken up is insufficient, the system creates new instances for scale-out. For scale-in, instances are terminated as in the typical method. You can use the <code>StopAutoScalingInstances</code> API to stop instances in the scaling group. Scale-out operations triggered by alarms will still create new instances. Default value: CLASSIC_SCALING
ReplaceLoadBalancerUnhealthy	Boolean	No	Enable unhealthy instance replacement. If this feature is enabled, AS will replace instances that are found unhealthy in the CLB health check. If this parameter is not specified, the default value <code>False</code> will be used.
ReplaceMode	String	No	Replacement mode of the unhealthy replacement service. valid values:. RECREATE: rebuild an instance to replace the unhealthy instance. RESET: performs a system reinstallation on unhealthy instances while keeping the data disk, private IP address, instance id, and other information unchanged. the instance login settings, hostname, enhanced services, and UserData remain consistent with the current launch

			configuration. Default value: RECREATE.
AutoUpdateInstanceTags	Boolean	No	Automatic instance Tag update. the default value is False. if this feature is enabled, tags of running instances in a scaling group will be updated as well if the scaling group tags are updated. (this feature takes effect for Tag creation and editing but not Tag deletion.) the update does not take effect immediately due to certain latency.
DesiredCapacitySyncWithMaxMinSize	Boolean	No	Expected number of instances sync minimum and maximum value. default value is False. this parameter only takes effect in scenarios where the expected number is not passed in to modify scaling group api. • True: when modifying the maximum or minimum value, if a conflict exists with the current expected value, synchronously adjust the expected value. for example, if the input minimum value is 2 while the current expected value is 1, the expected value will be synchronously adjusted to 2. • False: if a conflict exists between the current expected value when modifying the maximum or minimum value, an error message indicates it is not allowed to be modified.

SpotMarketOptions

Bidding-related options

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

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Name	Type	Required	Description
MaxPrice	String	Yes	Bidding price such as "1.05"
SpotInstanceType	String	No	Spot instance type. The value can only be one-time currently. Default value: one-time.

SpotMixedAllocationPolicy

Specifies how to assign pay-as-you-go instances and spot instances in a mixed instance mode.

Used by actions: CreateAutoScalingGroup, DescribeAutoScalingGroups, ModifyAutoScalingGroup.

Name	Type	Required	Description
BaseCapacity	Integer	No	The minimum number of the scaling capacity that must be fulfilled by pay-as-you-go instances. It defaults to 0 if not specified. Its value cannot exceed the maximum capacity of the scaling group. Note: this field may return <code>null</code>, that no valid value can be obtained.
OnDemandPercentageAboveBaseCapacity	Integer	No	Controls the percentage of pay-as-you-go instances for the additional capacity above <code>BaseCapacity</code>. Valid range: 0–100. A value 0 indicates that only spot instances are provisioned, while the value 100 indicates that only pay-as-you-go instances are provisioned. It defaults to 70 if not specified. The percentage of pay-as-you-go instances calculate should be rounded up. For example, if the desired capacity <code>BaseCapacity</code> is set to 1, and the <code>OnDemandPercentageAboveBaseCapacity</code> is set to 1, the scaling group will have one pay-as-you-go instance (one comes from <code>BaseCapacity</code>, and the other comes from the rounded up value of the proportion). Note: this field may return <code>null</code>, that no valid value can be obtained.
SpotAllocationStrategy	String	No	Specifies how to assign spot instances.

			mixed instance mode. Valid values: <code>COST_OPTIMIZED</code> and <code>CAPACITY_OPTIMIZED</code> ; default value <code>COST_OPTIMIZED</code> . <code>COST_OPTIMIZED</code> : the lowest price policy. For each model in the launch configuration, AS tries to purchase it based on the lowest price per core in each availability zone. If the first purchase failed, try the second-lowest price. <code>CAPACITY_OPTIMIZED</code> : the optimal capacity policy. For each model in the launch configuration, AS tries to purchase the largest stock in each availability zone, minimizing the automatic replacement probability of spot instances. Note: this field may return <code>null</code> , that no valid value can be obtained.
CompensateWithBaseInstance	Boolean	No	Whether to replace with pay-as-you-go instances. Valid values: <code>TRUE</code> : yes. After the purchase of spot instances failed due to insufficient stock or other reasons, purchase pay-as-you-go instances. <code>FALSE</code> : no. The scaling group will not replace the configured model of spot instances with pay-as-you-go instances. Default value: <code>TRUE</code> . Note: this field may return <code>null</code> , that no valid value can be obtained.

SystemDisk

System disk configuration of the launch configuration. If this parameter is not specified, the default value is assigned to it.

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
DiskType	String	No	System disk type. for restrictions on the system disk type, see cloud block storage types . valid values:. • LOCAL_BASIC: local hard disk. • LOCAL_SSD: local ssd. • CLOUD_BASIC: general cloud disk. • CLOUD_PREMIUM: high-performance cloud block storage • CLOUD_SSD: cloud ssd • CLOUD_BSSD: universal ssd cloud disk • CLOUD_HSSD: enhanced ssd cloud disk • CLOUD_TSSD: ultra ssd. • Default value: CLOUD_PREMIUM.
DiskSize	Integer	No	System disk size, in GB. Default value: 50.

Tag

Resource type and tag key-value pair

Used by actions: CreateAutoScalingGroup, CreateLaunchConfiguration, DescribeAutoScalingGroups, DescribeLaunchConfigurations.

Name	Type	Required	Description
Key	String	Yes	Tag key
Value	String	Yes	Tag value
ResourceType	String	No	Specifies the resource type bound to the tag. type currently supported: "auto-scaling-group", "launch-configuration". valid values: scaling group resources and launch configuration resources respectively.

TargetAttribute

Load balancer target attribute

Used by actions: AttachLoadBalancers, CreateAutoScalingGroup, DescribeAutoScalingGroups, ModifyLoadBalancerTargetAttributes, ModifyLoadBalancers.

Name	Type	Required	Description
Port	Integer	Yes	Port. value range: [1,65535]. as an input parameter, this parameter is required.
Weight	Integer	Yes	Weight. value range: [0,100]. this parameter is required as an input parameter.

Error Codes

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Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please check your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	Authorization in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time

	cannot differ by more than five minutes. Please ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the

	frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
AccountQualificationRestrictions	The requesting account failed to pass the qualification review.
CallCvmError	CVM API call failed.
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalError.CallCmqError	The CMQ API call failed.
InternalError.CallError	The internal API call failed.
InternalError.CallLbError	CLB API call failed.
InternalError.CallMonitorError	Monitor API call failed.

InternalError.CallNotificationError	The notification service API call failed.
InternalError.CallStsError	The STS API call failed.
InternalError.CallTATErr	Failed to call the Tencent Automation Tools (TAT) API.
InternalError.CallTagError	The tag API call failed.
InternalError.CallTvpError	The TVPC API call failed.
InternalError.CallVpcError	VPC API call failed.
InternalError.CalleeError	Exceptions occurred while invoking other services.
InternalError.RequestError	An internal request error occurred.
InvalidImageId.NotFound	The image cannot be found.
InvalidLaunchConfiguration	Invalid launch configuration.
InvalidLaunchConfigurationId	The launch configuration ID is invalid.
InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameter.Conflict	Multiple parameters specified conflict and cannot co-exist.
InvalidParameter.HostNameUnavailable	The <code>hostname</code> parameter is unavailable to this image.
InvalidParameter.InScenario	The parameter is invalid in a specific scenario.
InvalidParameter.InvalidCombination	Invalid parameter combination.
InvalidParameter.LoadBalancerNotInAutoScalingGroup	The specified CLB does not exist in the current scaling group.
InvalidParameter.MustOneParameter	A parameter is missing. One of the two parameters must be specified.
InvalidParameter.ParameterDeprecated	This parameter has been

	disused.
InvalidParameter.ParameterMustBeDeleted	Some parameters cannot coexist and should be deleted.
InvalidParameterConflict	The two parameters specified conflict and cannot co-exist.
InvalidParameterValue.AccountNotSupportBandwidthPackageId	The bandwidth package ID is not supported in this account.
InvalidParameterValue.AssertDesiredCapacityFailed	The declared original expected instance number does not match the actual original expected instance number.
InvalidParameterValue.BaseCapacityTooLarge	The specified base capacity cannot exceed the max capacity.
InvalidParameterValue.BatchNumberTooLarge	The batch count cannot exceed the total number of instances pending refresh.
InvalidParameterValue.ClassicLb	A classic CLB should be specified.
InvalidParameterValue.ConflictNotificationTarget	Conflicting notification receiver type.
InvalidParameterValue.CronExpressionIllegal	The cron expression specified for the scheduled task is invalid.
InvalidParameterValue.CvmConfigurationError	Exception with CVM parameter validation.
InvalidParameterValue.CvmError	Exception with CVM parameter validation.
InvalidParameterValue.DuplicatedForwardLb	Duplicate CLB instances
InvalidParameterValue.DuplicatedSubnet	Duplicated subnet.
InvalidParameterValue.EndTimeBeforeStartTime	The end time of the scheduled task is before the start time.
InvalidParameterValue.Filter	Invalid filter.

InvalidParameterValue.ForwardLb	A CLB should be specified.
InvalidParameterValue.GroupNameDuplicated	The auto scaling group name already exists.
InvalidParameterValue.HostNameIllegal	Invalid hostname
InvalidParameterValue.HostNameWithSuffixTooLong	HostNames with suffixes are too long and exceed the specified upper limit.
InvalidParameterValue.Ipv6InternetChargeType	The specified IPv6 public network bandwidth billing mode is invalid.
InvalidParameterValue.ImageNotFound	The specified image does not exist.
InvalidParameterValue.InstanceNameIllegal	Invalid instance name
InvalidParameterValue.InstanceNameWithSuffixTooLong	Instance names with suffixes are too long and exceed the specified upper limit.
InvalidParameterValue.InstanceTypeNotSupported	The instance type is not supported.
InvalidParameterValue.InvalidActivityId	Invalid scaling activity ID.
InvalidParameterValue.InvalidAutoScalingGroupId	Invalid scaling group ID.
InvalidParameterValue.InvalidAutoScalingNotificationId	Invalid notification ID.
InvalidParameterValue.InvalidAutoScalingPolicyId	Invalid alarm-triggered policy ID.
InvalidParameterValue.InvalidClbRegion	The regions specified for CLB is invalid.
InvalidParameterValue.InvalidDisasterRecoverGroupId	The format of the placement group ID is incorrect.
InvalidParameterValue.InvalidFilter	Invalid filter condition.
InvalidParameterValue.InvalidHpcClusterId	The HPC ID is invalid.
InvalidParameterValue.InvalidImageId	Invalid image ID.
InvalidParameterValue.InvalidInstanceId	Invalid instance ID.

InvalidParameterValue.InvalidInstanceType	Invalid instance type.
InvalidParameterValue.InvalidLaunchConfiguration	Invalid launch configuration
InvalidParameterValue.InvalidLaunchConfigurationId	Invalid launch configuration ID.
InvalidParameterValue.InvalidLifecycleHookId	Invalid lifecycle hook ID.
InvalidParameterValue.InvalidNotificationUserGroupId	The notification group ID should be a numeric string.
InvalidParameterValue.InvalidScheduledActionId	Invalid scheduled action ID.
InvalidParameterValue.InvalidScheduledActionNameIncludeIllegalChar	The scheduled task name contains invalid characters.
InvalidParameterValue.InvalidSecurityGroupId	Invalid security group ID.
InvalidParameterValue.InvalidSnapshotId	Invalid snapshot ID.
InvalidParameterValue.InvalidSubnetId	Invalid subnet ID.
InvalidParameterValue.LaunchConfigurationNameDuplicated	The launch configuration name already exists.
InvalidParameterValue.LaunchConfigurationNotFound	The specified launch configuration was not found.
InvalidParameterValue.LbProjectInconsistent	The load balancer is in a different project.
InvalidParameterValue.LifecycleHookNameDuplicated	The lifecycle hook name already exists.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.
InvalidParameterValue.ListenerTargetTypeNotSupported	Target group listeners are not supported.
InvalidParameterValue.MaxSurgeTooLarge	The maximum additional quantity is too large.
InvalidParameterValue.MissingBandwidthPackageId	The bandwidth package ID is required.
InvalidParameterValue.NoResourcePermission	No resource permission.
InvalidParameterValue.NotStringTypeFloat	The value should be a floating

	point string.
InvalidParameterValue.OnlyVpc	The account only supports VPCs.
InvalidParameterValue.ProjectIdNotFound	The project ID does not exist.
InvalidParameterValue.Range	The value is outside the specified range.
InvalidParameterValue.ScalingPolicyNameDuplicate	The alarm policy name already exists.
InvalidParameterValue.ScheduledActionNameDuplicate	The scheduled task name already exists.
InvalidParameterValue.Size	The value of maximum, minimum, or desired number of instances in the auto scaling group is invalid.
InvalidParameterValue.StartTimeBeforeCurrentTime	The start time of the scheduled task is before the current time.
InvalidParameterValue.SubnetIds	The subnet information is invalid.
InvalidParameterValue.SubnetNotInDedicatedCluster	The subnet is not in the designated local dedicated cluster.
InvalidParameterValue.TargetPortDuplicated	The backend port of the CLB layer-4 listener already exists.
InvalidParameterValue.TargetTrackingScalingPolicy	Executing a target tracking policy is not supported.
InvalidParameterValue.ThresholdOutOfRange	The specified threshold must be within the valid range.
InvalidParameterValue.TimeFormat	Wrong time format.
InvalidParameterValue.TooLong	Too many values.
InvalidParameterValue.TooShort	The value of input parameter is too short.
InvalidParameterValue.UserDataFormatError	Incorrect UserData format.

InvalidParameterValue.UserDataSizeExceeded	The UserData is too long.
InvalidParameterValue.UserGroupIdNotFound	The user group does not exist.
InvalidParameterValue.ZoneMismatchRegion	The specified availability zone is not in the region.
InvalidPermission	The account does not support this operation.
LimitExceeded.AfterAttachLbLimitExceeded	Binding with the specified CLBs will make the total number of bound CLBs exceeds the upper limit.
LimitExceeded.AutoScalingGroupLimitExceeded	The number of auto scaling groups exceeds the limit.
LimitExceeded.DesiredCapacityLimitExceeded	The desired number of instances exceeds the limit.
LimitExceeded.FilterValuesTooLong	Too many values for the specified filter
LimitExceeded.LaunchConfigurationQuotaNotEnough	You are short of the launch configuration quota.
LimitExceeded.MaxSizeLimitExceeded	The maximum number of instances exceeds the limit.
LimitExceeded.MinSizeLimitExceeded	The minimum number of instances is below the limit.
LimitExceeded.QuotaNotEnough	You are short of the quota.
LimitExceeded.ScheduledActionLimitExceeded	The number of scheduled tasks exceeds the limit.
LimitExceeded.TargetTrackingScalingPolicy	Only one target tracking policy can be created for a scaling group.
MissingParameter.InScenario	A parameter is missing in a specific scenario.
MissingParameter.InstanceMarketOptions	The InstanceMarketOptions

	parameter of the spot instance is missing.
ResourceInUse.ActivityInProgress	The auto scaling group is performing a scaling activity.
ResourceInUse.AutoScalingGroupNotActive	The scaling group is disabled.
ResourceInUse.InstanceInGroup	There are still normal instances in the auto scaling group.
ResourceInUse.LaunchConfigurationIdInUse	The specified launch configuration is still used in the scaling group.
ResourceInsufficient.AutoScalingGroupAboveMaxSize	The maximum number of instances in the auto scaling group is exceeded.
ResourceInsufficient.AutoScalingGroupBelowMinSize	The number of instances in the auto scaling group is below the minimum value.
ResourceInsufficient.InServiceInstanceAboveMaxSize	The number of instances in a scaling group is more than the maximum capacity.
ResourceInsufficient.InServiceInstanceBelowMinSize	The number of instances in a scaling group is less than the minimum capacity.
ResourceNotFound.AutoScalingGroupIdNotFound	The scaling group does not exist.
ResourceNotFound.AutoScalingGroupNotFound	The scaling group does not exist.
ResourceNotFound.AutoScalingNotificationNotFound	The notification does not exist.
ResourceNotFound.BandwidthPackageIdNotFound	The specified bandwidth package ID is not found.
ResourceNotFound.ClassicLoadBalancerNotFound	
ResourceNotFound.CmqQueueNotFound	The specified CMQ queue does not exist.
ResourceNotFound.CommandNotFound	The command does not exist.

ResourceNotFound.DisasterRecoverGroupNotFound	The specified placement group ID does not exist.
ResourceNotFound.InstancesNotFound	The specified instance does not exist.
ResourceNotFound.InstancesNotInAutoScalingGroup	The target instance is not in the auto scaling group.
ResourceNotFound.LaunchConfigurationIdNotFound	The specified launch configuration does not exist.
ResourceNotFound.LifecycleHookInstanceNotFound	The instance corresponding to the lifecycle hook does not exist.
ResourceNotFound.LifecycleHookNotFound	The specified lifecycle hook was not found.
ResourceNotFound.LifecycleHookTokenNotFound	The specified lifecycle hook token does not exist.
ResourceNotFound.ListenerNotFound	The specified listener does not exist.
ResourceNotFound.LoadBalancerNotFound	The specified load balancer was not found.
ResourceNotFound.LoadBalancerNotInAutoScalingGroup	The specified CLB does not exist in the current scaling group.
ResourceNotFound.LocationNotFound	The specified location does not exist.
ResourceNotFound.RefreshActivityNotFound	The specified instance refresh activity does not exist.
ResourceNotFound.ScalingPolicyNotFound	The alarm policy does not exist.
ResourceNotFound.ScheduledActionNotFound	The specified scheduled task does not exist.
ResourceNotFound.TDMQCMQQueueNotFound	The TDMQ-CMQ queue doesn't exist.
ResourceNotFound.TDMQCMQTopicNotFound	The TDMQ-CMQ topic doesn't exist.

ResourceUnavailable.AutoScalingGroupAbnormalStatus	The auto scaling group is exceptional.
ResourceUnavailable.AutoScalingGroupDisabled	The auto scaling group is disabled.
ResourceUnavailable.AutoScalingGroupInActivity	The auto scaling group is active.
ResourceUnavailable.AutoScalingGroupInRefreshActivity	The scaling group is already involved in another instance refresh activity.
ResourceUnavailable.CmqTopicHasNoSubscriber	There are no subscribers for the specified CMQ topic.
ResourceUnavailable.CvmVpcInconsistent	The instance and the auto scaling group are in different VPCs.
ResourceUnavailable.ForbiddenModifyVpc	You cannot modify the VPC of a scaling group bound with a load balancer.
ResourceUnavailable.InquiryPriceResetInstanceFailed	The instance reinstallation quotation failed, because the new image conflicts with other parameters of the instance or the new image does not exist.
ResourceUnavailable.InstanceCannotAttach	Unable to add the instance to the scaling group.
ResourceUnavailable.InstanceInOperation	The specified instance is active.
ResourceUnavailable.InstanceNotSupportStopCharging	The instance does not support No Charges When Shut Down .
ResourceUnavailable.InstancesAlreadyInAutoScalingGroup	The instance already exists in the auto scaling group.
ResourceUnavailable.LaunchConfigurationStatusAbnormal	The launch configuration is exceptional.
ResourceUnavailable.LbBackendRegionInconsistent	The backend region of the CLB is not the same as the one for

	AS service.
ResourceUnavailable.LbProjectInconsistent	The CLB is not in the same project.
ResourceUnavailable.LbVpcInconsistent	The CLB and scaling group should reside in the same VPC.
ResourceUnavailable.LifecycleActionResultHasSet	The lifecycle action has already been set.
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.
ResourceUnavailable.NoInstanceCanRefresh	There are no instances in running status within the scaling group, making it impossible to perform an instance refresh.
ResourceUnavailable.NoInstanceCanRollback	There are no instances eligible for rollback in the scaling group.
ResourceUnavailable.ProjectInconsistent	Project inconsistency.
ResourceUnavailable.RefreshActivityCanNotRollback	The current refresh activity is in a successful status and not the most recent execution, so it cannot be rolled back.
ResourceUnavailable.RefreshActivityStatusConflictWithOperation	The instance refresh activity status conflicts with the current operation.
ResourceUnavailable.RollbackTypeActivityCanNotRollbackAgain	Rollback type instance refresh activity cannot be rolled back again.
ResourceUnavailable.StoppedInstanceNotAllowAttach	Unable to add instances to the scaling group when they are shut down.
ResourceUnavailable.TDMQCMQTopicHasNoSubscriber	The TDMQ-CMQ topic is not subscribed.
ResourceUnavailable.ZoneUnavailable	The specified availability zone is unavailable.

UnauthorizedOperation.AutoScalingRoleUnauthorized	You have not assigned the CAM role AS-QCSRole to Auto Scaling. Please go to the AS console to complete authorization first.
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