

# **Auto Scaling**

## **API Documentation**

### **Product Documentation**



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# API Documentation

## History

Last updated : 2024-10-25 15:15:49

### 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
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  - **Deprecate members:** AutomationService
- [HostNameSettings](#)
  - New members:HostNameSuffix
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  - 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](#)
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## Deprecated APIs:

- [UpgradeLaunchConfiguration](#)

Modified APIs:

- [CreateAutoScalingGroup](#)
  - New input parameters:InstanceNameIndexSettings
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New data structures:

- [InstanceNameIndexSettings](#)
- [RefreshActivity](#)
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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
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  - New input parameters:LifecycleCommand
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  - 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:

- CreatePaiInstance
- DescribePaiInstances
- PreviewPaiDomainName

Modified APIs:

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

### Deleted data structures:

- PaiInstance

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](#)
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- [DescribeLaunchConfigurations](#)
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- [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

Last updated : 2024-07-19 14:20:53

Tencent Cloud Auto Scaling (AS) enables users to have the compute resources automatically adjusted according to the specified scheduled actions, periodical policies and monitoring policies.

**Notes:**

- All AS APIs described here have been upgraded to API 3.0. All new AS-related features will be added to v3.0 APIs. We recommend that you use API 3.0.
- Legacy APIs remain available, but will not be updated. For more information about legacy APIs, see [AS API Overview \(Legacy\)](#)

# API Category

Last updated : 2024-10-25 15:15:47

## Scaling Group APIs

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

<a href="#">ModifyAutoScalingGroup</a>	Modifies an auto scaling group	20
<a href="#">ScaleInInstances</a>	Reduces the specified number of instances	20
<a href="#">ScaleOutInstances</a>	Adds the specified number of instances	20

## Scaling Group Instances APIs

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

## Launch Configuration APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">ClearLaunchConfigurationAttributes</a>	Clears launch configuration attributes	20
<a href="#">CreateLaunchConfiguration</a>	Creates a launch configuration	20

<a href="#">DeleteLaunchConfiguration</a>	Deletes a launch configuration	10
<a href="#">DescribeLaunchConfigurations</a>	Queries launch configurations	20
<a href="#">ModifyLaunchConfigurationAttributes</a>	Modifies launch configuration attributes	20
<a href="#">UpgradeLaunchConfiguration</a>	Upgrades a launch configuration	20

## Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">DescribeAccountLimits</a>	Queries resource limits for a user account	20

## Lifecycle Hook APIs

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

## Alarm Trigger Policy APIs

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

## Scheduled Task APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">CreateScheduledAction</a>	Creates a scheduled task	20
<a href="#">DeleteScheduledAction</a>	Deletes a scheduled task	20
<a href="#">DescribeScheduledActions</a>	Queries scheduled tasks	20
<a href="#">ModifyScheduledAction</a>	Modifies a scheduled task	20

## Notification APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">CreateNotificationConfiguration</a>	Creates a notification	20
<a href="#">DeleteNotificationConfiguration</a>	Deletes a notification	20
<a href="#">DescribeNotificationConfigurations</a>	Queries notifications	20
<a href="#">ModifyNotificationConfiguration</a>	Modifies a notification	20

## Instance Refresh APIs

API Name	Feature	Frequency Limit (maximum requests per
----------	---------	---------------------------------------

		second)
<a href="#">CancelInstanceRefresh</a>	Cancels instance refresh	20
<a href="#">DescribeRefreshActivities</a>	Queries the instance refresh activity	20
<a href="#">ResumeInstanceRefresh</a>	Resumes instance refresh	20
<a href="#">RollbackInstanceRefresh</a>	Rolls back instance refresh	20
<a href="#">StartInstanceRefresh</a>	Starts instance refresh	20
<a href="#">StopInstanceRefresh</a>	Pauses instance refresh	20

# Scaling Group APIs

## ModifyDesiredCapacity

Last updated : 2024-10-25 15:16:03

### 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ModifyDesiredCapacity.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group ID
DesiredCapacity	Yes	Integer	Desired capacity
MinSize	No	Integer	Minimum number of instances. Value range: 0-2000.
MaxSize	No	Integer	Maximum number of instances. Value range: 0-2000.

## 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 desired capacity of a scaling group

#### Input Example

```
POST / HTTP/1.1
Host: as.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

Last updated : 2024-10-25 15:16:55

## 1. API Description

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

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

Note: for a scaling group that is created based on a monthly-subscribed instance, the instances added for scale-out are pay-as-you-go 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	<a href="#">Common Params</a> . The value used for this API: CreateAutoScalingGroupFromInstance.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> 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	The instance ID.

MinSize	Yes	Integer	The minimum number of instances. Value range: 0-2000.
MaxSize	Yes	Integer	The maximum number of instances. Value range: 0-2000.
DesiredCapacity	No	Integer	The desired capacity. Its value must be greater than the minimum and smaller than the maximum.
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.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](#).

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

Last updated : 2024-10-25 15:16:01

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ModifyLoadBalancers.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.

AutoScalingGroupId	Yes	String	Auto scaling group ID
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.
ForwardLoadBalancers.N	No	Array of <a href="#">ForwardLoadBalancer</a>	List of application CLBs. Up to 100 CLBs are allowed. LoadBalancerIds and ForwardLoadBalancers cannot be specified at the same time.
LoadBalancersCheckPolicy	No	String	CLB verification policy. Valid values: "ALL" and "DIFF". Default value: "ALL"  <ul style="list-style-type: none"> <li>ALL. Verification is successful only when all CLBs are valid. Otherwise, verification fails.</li> <li>DIFF. Only the changes in the CLB parameters are verified. If valid, the verification is successful. Otherwise, verification fails.</li> </ul>

### 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 Clearing Load Balancers of Scaling Groups

##### Input Example

```
POST / HTTP/1.1
Host: as.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.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.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-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](#)
- [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

Last updated : 2024-10-25 15:16:05

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: EnableAutoScalingGroup.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group 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 Enabling the specified scaling group

#### Input Example

```
POST / HTTP/1.1
Host: as.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
InternalError	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

Last updated : 2024-10-25 15:16:06

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API:

			DisableAutoScalingGroup.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group 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 Disabling the specified scaling group

##### Input Example

```
POST / HTTP/1.1
Host: as.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

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.

# ModifyLoadBalancerTargetAttributes

Last updated : 2024-10-25 15:16:51

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ModifyLoadBalancerTargetAttributes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID
ForwardLoadBalancers.N	Yes	Array of <a href="#">ForwardLoadBalancer</a>	List of application CLBs to modify. Up to 100 CLBs allowed.

## 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 Modifying the target rule attribute of the application CLB `lb-23aejgcv` (listener: `lbl-ncw704sn`, forwarding rule ID: `loc-l3hmaev9`), changing the port number to 8080 and the weight to 20**

### Input Example

```
POST / HTTP/1.1
Host: as.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-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.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

Last updated : 2024-10-25 15:16:53

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params.</a> DetachLoadBalanc
Version	Yes	String	<a href="#">Common Params.</a> 2018-04-19.
Region	Yes	String	<a href="#">Common Params.</a> I see the <a href="#">list of region</a>
AutoScalingGroupId	Yes	String	Scaling group ID
LoadBalancerIds.N	No	Array of String	List of classic CLB LoadBalancerI ForwardLoadBa cannot be specied
ForwardLoadBalancerIdentifications.N	No	Array of <a href="#">ForwardLoadBalancerIdentification</a>	List of application C allowed. LoadBa.

ForwardLoadBa  
cannot be specifiec

### 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.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.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

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.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.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

Last updated : 2024-10-25 15:16:56

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: AttachLoadBalancers.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID
LoadBalancerIds.N	No	Array of String	List of classic CLB IDs. Up to 20 classic CLBs can be bound to a security group. <code>LoadBalancerIds</code> and <code>ForwardLoadBalancers</code> cannot be specified at the same time.
ForwardLoadBalancers.N	No	Array of	List of application CLBs. Up to 100

		<a href="#">ForwardLoadBalancer</a>	application CLBs can be bound to a scaling group. <code>LoadBalancerIds</code> and <code>ForwardLoadBalancers</code> cannot be specified at the same time.
--	--	-------------------------------------	--

### 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.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 `lb-23aejgcv` (listener: `lbl-ncw704sn`, forwarding rule ID: `loc-l3hmaev9`) to the scaling group

### Input Example

```
POST / HTTP/1.1  
Host: as.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": "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](#)
- [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.
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.

# DescribeAutoScalingInstances

Last updated : 2024-10-25 15:16:08

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeAutoScalingInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	No	Array of String	IDs of the CVM instances to query. Up to 100 IDs can be queried at one time. <code>InstanceIds</code> and <code>Filters</code> can not be both specified.

Filters.N	No	Array of <a href="#">Filter</a>	<p>Filter.</p> <ul style="list-style-type: none"> <li>instance-id - String - Required: No - (Filter) Filter by instance ID.</li> <li>auto-scaling-group-id - String - Required: No - (Filter) Filter by auto scaling group ID.</li> </ul> <p>The maximum number of <code>Filters</code> per request is 10. The upper limit for <code>Filter.Values</code> is 5. This parameter does not support specifying both <code>InstanceIds</code> and <code>Filters</code> at the same time.</p>
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API <a href="#">overview</a> .
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 <a href="#">Introduction</a> .

### 3. Output Parameters

Parameter Name	Type	Description
AutoScalingInstanceSet	Array of <a href="#">Instance</a>	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 Querying the specified instance

##### Input Example

```
POST / HTTP/1.1
Host: as.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,
        "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"
      }
    ],
    "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.

- [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.
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

Last updated : 2024-10-25 15:16:09

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeAutoScalingGroups.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupIds.N	No	Array of String	Queries by one or more auto scaling group IDs in the format of <code>asg-nkdwoui0</code> . The maximum quantity per request is 100. This parameter does not support specifying

			both <code>AutoScalingGroupIds</code> and <code>Filters</code> at the same time.
<code>Filters.N</code>	No	Array of <code>Filter</code>	<p><code>Filters</code>.</p> <ul style="list-style-type: none"> <li><code>auto-scaling-group-id</code> - String - Required: No - (Filter) Filter by auto scaling group ID.</li> <li><code>auto-scaling-group-name</code> - String - Required: No - (Filter) Filter by auto scaling group name.</li> <li><code>vague-auto-scaling-group-name</code> - String - Required: No - (Filter) Fuzzy search by auto scaling group name.</li> <li><code>launch-configuration-id</code> - String - Required: No - (Filter) Filter by launch configuration ID.</li> <li><code>tag-key</code> - String - Required: No - (Filter) Filter by tag key.</li> <li><code>tag-value</code> - String - Required: No - (Filter) Filter by tag value.</li> <li><code>tag:tag-key</code> - String - Required: No - (Filter) Filter by tag key-value pair. The tag-key should be replaced with a specified tag key. For more information, see example 2.</li> </ul> <p>The maximum number of <code>Filters</code> in each request is 10. The upper limit for <code>Filter.Values</code> is 5. This parameter cannot specify <code>AutoScalingGroupIds</code> and <code>Filters</code> at the same time.</p>
<code>Limit</code>	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 <a href="#">overview</a> .
<code>Offset</code>	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API <a href="#">overview</a> .

### 3. Output Parameters

Parameter Name	Type	Description
<code>AutoScalingGroupSet</code>	Array of <code>AutoScalingGroup</code>	List of auto scaling group details.
<code>TotalCount</code>	Integer	Number of eligible auto scaling groups.
<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 RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Querying scaling groups

This example shows you how to query a scaling group by ID.

#### Input Example

```
POST / HTTP/1.1
Host: as.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": [],
        "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": "testasg",
"MinSize": 0,
"ServiceSettings": {
  "ReplaceMonitorUnhealthy": false,
  "ReplaceLoadBalancerUnhealthy": false,
  "ScalingMode": "CLASSIC_SCALING"
},
"LaunchConfigurationName": "test",
"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 the tag

This example shows you how to query scaling groups bound with the tag `city:shenzhen` .

### Input Example

```
POST / HTTP/1.1
Host: as.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": [],
        "RetryPolicy": "IMMEDIATE_RETRY",
        "InServiceInstanceCount": 0,
        "CreatedTime": "2019-10-29T02:21:26Z",
        "SpotMixedAllocationPolicy": {
          "CompensateWithBaseInstance": null,
          "SpotAllocationStrategy": null,
          "OnDemandPercentageAboveBaseCapacity": null,
          "BaseCapacity": null
        },
        "VpcId": "vpc-qmjyqjnk",
        "InstanceAllocationPolicy": "LAUNCH_CONFIGURATION",
        "Tags": [
          {
```

```
"Key": "city",
"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": "",
    "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,
"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](#)
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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.
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.

# DescribeAutoScalingActivities

Last updated : 2024-10-25 15:16:10

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeAutoScalingActivities.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
ActivityIds.N	No	Array of String	Queries by one or more scaling activity IDs in the format of <code>asa-512ejpfo</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 <a href="#">Filter</a>	Filter. <ul style="list-style-type: none"><li>auto-scaling-group-id - String - Required: No - (Filter) Filter by auto scaling group ID.</li></ul>

			<ul style="list-style-type: none"> <li>activity-status-code - String - Required: No - (Filter) Filter by scaling activity status . (INIT: initializing   RUNNING: running   SUCCESSFUL: succeeded   PARTIALLY_SUCCESSFUL: partially succeeded   FAILED: failed   CANCELLED: canceled)</li> <li>activity-type - String - Required: No - (Filter) Filter by scaling activity type. (SCALE_OUT: scale-out   SCALE_IN: scale-in   ATTACH_INSTANCES: adding an instance   REMOVE_INSTANCES: terminating an instance   DETACH_INSTANCES: removing an instance   TERMINATE_INSTANCES_UNEXPECTEDLY: terminating an instance in the CVM console   REPLACE_UNHEALTHY_INSTANCE: replacing an unhealthy instance   UPDATE_LOAD_BALANCERS: updating a load balancer)</li> <li>activity-id - String - Required: No - (Filter) Filter by scaling activity ID.</li> </ul> <p>The maximum number of <code>Filters</code> per request is 10. The upper limit for <code>Filter.Values</code> is 5. This parameter does not support specifying both <code>ActivityIds</code> and <code>Filters</code> at the same time.</p>
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 <a href="#">overview</a> .
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API <a href="#">overview</a> .
StartTime	No	Timestamp ISO8601	The earliest start time of the scaling activity, which will be ignored if <code>ActivityIds</code> 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 <code>ActivityIds</code> 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 <a href="#">Activity</a>	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 Using Filters to view the list of scaling activities

#### Input Example

```
POST / HTTP/1.1
Host: as.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",
        "ActivityRelatedInstanceSet": [
```

```
{
  "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.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",
  "ActivityRelatedInstanceSet": [
    {
      "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

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.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

Last updated : 2024-10-25 15:16:09

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeAutoScalingGroupLastActivities.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupIds.N	Yes	Array of String	ID list of an auto scaling group.

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
ActivitySet	Array of <a href="#">Activity</a>	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 activities of a scaling group

#### Input Example

```
POST / HTTP/1.1
Host: as.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAutoScalingGroupLastActivities
&<Common Request Parameter>

{
  "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": [],
        "ActivityRelatedInstanceSet": [
          {
            "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

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

# DeleteAutoScalingGroup

Last updated : 2024-10-25 15:16:11

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DeleteAutoScalingGroup.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group 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 scaling group

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

#### Input Example

```
POST / HTTP/1.1
Host: as.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

### 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.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

Last updated : 2024-10-25 15:16:04

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value for this API: ModifyAutoScalingGroup
Version	Yes	String	<a href="#">Common Params</a> . The value for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">regions</a> supported by the
AutoScalingGroupId	Yes	String	Auto scaling group ID
AutoScalingGroupName	No	String	Auto scaling group name can only contain letters, underscores, hyphens ("-" decimal points with a maximum length of 55 bytes and must be unique under your account



DefaultCooldown	No	Integer	Default cooldown period Default value: 300
DesiredCapacity	No	Integer	Desired number of instar number should be no larg maximum and no smaller minimum number of inste
LaunchConfigurationId	No	String	Launch configuration ID
MaxSize	No	Integer	Maximum number of inst Value range: 0-2,000.
MinSize	No	Integer	Minimum number of inste Value range: 0-2,000.
ProjectId	No	Integer	Project ID
SubnetIds.N	No	Array of String	List of subnet IDs
TerminationPolicies.N	No	Array of String	Termination policy, whos maximum length is curre values include OLDEST_INSTANCE ar NEWEST_INSTANCE. <ul style="list-style-type: none"> <li>• OLDEST_INSTANCE Terminate the oldest inst scaling group first.</li> <li>• NEWEST_INSTANC Terminate the newest ins the scaling group first.</li> </ul>
VpcId	No	String	VPC ID. This field is left e basic networks. You nee SubnetIds when modifyir network of the auto scalin a VPC with a specified V Specify Zones when moc network to a basic netwo
Zones.N	No	Array of String	List of availability zones
RetryPolicy	No	String	Retry policy, whose valid include IMMEDIATE_RE INCREMENTAL_INTER NO_RETRY, with the de

			<p>being IMMEDIATE_RET partially successful scalar is considered a failed act</p> <ul style="list-style-type: none"> <li>• IMMEDIATE_RETRY: Immediately retry, and quit in a short period. There will not retry anymore after a certain number of consecutive failures</li> <li>• INCREMENTAL_RETRY: Retry with incremental increase in the number of consecutive failures, the retry interval gradually become longer from seconds to one day</li> <li>• NO_RETRY: There will not retry until another user call information is received.</li> </ul>
<p>ZonesCheckPolicy</p>	<p>No</p>	<p>String</p>	<p>AZ verification policy, whose values include ALL and ANY, the default value being ALL. After the policy comes into effect, verification changes are made to related fields in the scalar (such as launch configuration or subnet).</p> <ul style="list-style-type: none"> <li>• ALL: Verification passes only if all AZs or subnets are available; otherwise, a verification error is reported.</li> <li>• ANY: Verification passes if any AZ or subnet is available; otherwise, a verification error will be reported.</li> </ul> <p>Common reasons for unavailability of AZs or subnets include the InstanceType in the AZ being out, the CBS cloud disk being sold out, insufficient IP addresses in the AZ, and insufficient IP addresses in the subnet. If there is no AZ or subnet in Zones/SubnetIds, a verification error will be reported.</p>

			error will be reported regarding the values of ZonesChecked.
ServiceSettings	No	<a href="#">ServiceSettings</a>	Service settings such as instance replacement.
Ipv6AddressCount	No	Integer	The number of IPv6 addresses an instance has. Valid values are 1-10.
MultiZoneSubnetPolicy	No	String	<p>Multi-AZ/multi-subnet policy. Valid values include PRIORITY and EQUALITY, with the default being PRIORITY.</p> <ul style="list-style-type: none"> <li><b>PRIORITY:</b> Instances are attempted to be created in the order of the AZ/subnet list priority. If the highest-priority AZ/subnet can create instances successfully, instances cannot be created in that AZ/subnet.</li> <li><b>EQUALITY:</b> The instances are added through scale-out distributed across multiple AZs/subnets to ensure a balanced number of instances in each AZ/subnet after scaling.</li> </ul> <p>Points to consider regarding policy:</p> <ul style="list-style-type: none"> <li>When the scaling group is on a classic network, this policy applies to the multi-AZ; when the scaling group is on a VPC network, this policy applies to the multi-subnet, in this case the AZs are no longer considered. For example, if there are four AZs labeled A, B, C, and D, where A, B, and C are in AZ 1 and D is in AZ 2, the subnets A, B, C, and D are considered for sorting with regard to AZs 1 and 2.</li> <li>This policy applies to multi-AZ/multi-subnet and not</li> </ul>

			<p>InstanceTypes parameter launch configuration, which is selected according to the policy.</p> <ul style="list-style-type: none"> <li>When instances are created according to the PRIORITY policy, ensure the policy for multiple models first, followed by the policy for the multi-AZ/subnet. For example, with models A, B, and C, subnets 1, 2, and 3, instances are created in the order of A1, B1, B2, and B3. If A1 is successful, B1 will be attempted (instead of B2).</li> </ul>
HealthCheckType	No	String	<p>Scaling group instance health check type, whose valid values include:</p> <ul style="list-style-type: none"> <li>CVM: Determines whether an instance is unhealthy based on its network status. An unhealthy network status is indicated by a network event where instances become unreachable via PING. Default criteria of judgment can be found in <a href="#">Instance Health Check</a>.</li> <li>CLB: Determines whether an instance is unhealthy based on the health check status of CLB. The principles behind CLB health checks, see <a href="#">Health Check</a>.</li> </ul>
LoadBalancerHealthCheckGracePeriod	No	Integer	<p>Grace period of the CLB health check</p>
InstanceAllocationPolicy	No	String	<p>Instance assignment policy. Valid values include LAUNCH_CONFIGURED and SPOT_MIXED.</p> <ul style="list-style-type: none"> <li>LAUNCH_CONFIGURED: Represents the traditional assigning instances according to the launch configuration.</li> <li>SPOT_MIXED: Represents spot mixed mode. Current mode is supported only when the launch configuration is set to SPOT_MIXED.</li> </ul>

			pay-as-you-go billing mode, the scaling scale out pay-as-you-go spot models based on the predefined settings. When mixed mode is used, the of the associated launch configuration cannot be r
SpotMixedAllocationPolicy	No	<a href="#">SpotMixedAllocationPolicy</a>	Specifies how to assign pay-as-you-go instances and spot instances. This parameter is valid only when InstanceAllocationPolicy is set to SPOT_MIXED.
CapacityRebalance	No	Boolean	Capacity rebalancing feature is applicable only to spot instances within the scaling group. values: <ul style="list-style-type: none"> <li>TRUE: Enable this feature. When spot instances in the scaling group are about to be automatically recycled by the spot instance service, AS proactively initiates the termination process of the instances. If there is a custom scale-in hook, it will be triggered before termination. After the termination process starts, AS asynchronously initiates scaling out to reach the expected number of instances.</li> <li>FALSE: Disable this feature. AS waits for the spot instances to be terminated before scaling out to reach the number of instances expected by the scaling group.</li> </ul>
InstanceNameIndexSettings	No	<a href="#">InstanceNameIndexSettings</a>	Instance name sequence settings. When enabled, an increasing numeric sequence will be added to the names of instances automatically created within the 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.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.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

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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.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.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.

# CreateAutoScalingGroup

Last updated : 2024-10-25 15:16:13

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The v: API: CreateAutoScalingC
Version	Yes	String	<a href="#">Common Params</a> . The v: API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For m please see the <a href="#">list of regi</a> the product.
AutoScalingGroupName	Yes	String	Auto scaling group name contain letters, numbers, hyphens ("-"), and decim maximum length of 55 by unique under your accou
LaunchConfigurationId	Yes	String	Launch configuration ID
MaxSize	Yes	Integer	Maximum number of inst

			range: 0-2,000.
MinSize	Yes	Integer	Minimum number of instances. range: 0-2,000.
VpcId	Yes	String	VPC ID; if on a basic network, empty string
DefaultCooldown	No	Integer	Default cooldown period. Default value: 300
DesiredCapacity	No	Integer	Desired number of instances should be no larger than the maximum number of instances and no smaller than the minimum number of instances
LoadBalancerIds.N	No	Array of String	List of classic CLB IDs. The maximum length is 20. You cannot specify both LoadBalancerIds and ForwardLoadBalancers at the same time.
ProjectId	No	Integer	Project ID of an instance group. The default project ID is blank.
ForwardLoadBalancers.N	No	Array of <a href="#">ForwardLoadBalancer</a>	List of application CLBs. You can specify both LoadBalancerIds and ForwardLoadBalancers at the same time.
SubnetIds.N	No	Array of String	List of subnet IDs. A subnet ID is specified in the VPC scenario. If multiple subnets are entered, they will be determined by the order in which they are entered, and they will be used until instances can be successfully created.
TerminationPolicies.N	No	Array of String	Termination policy. The current maximum length is 1. Valid values: OLDEST_INSTANCE, NEWEST_INSTANCE. Default value: OLDEST_INSTANCE. <ul style="list-style-type: none"> <li>• OLDEST_INSTANCE: The oldest instance in the auto scaling group is terminated.</li> </ul>

			<p>terminated first.</p> <ul style="list-style-type: none"> <li>NEWEST_INSTANCE: The newest instance in the auto scaling group is terminated first.</li> </ul>
Zones.N	No	Array of String	<p>List of availability zones. At least one zone must be specified in a network scenario. If multiple zones are entered, their priority is determined by the order in which they are entered, and they will be used until instances can be successfully created.</p>
RetryPolicy	No	String	<p>Retry policy. Valid values: IMMEDIATE_RETRY (Stop retrying immediately. Stop retrying after consecutive failures.), INCREMENTAL_RETRY (Stop retrying at incremental intervals. After consecutive failures increase, the interval gradually increases from seconds to one day.), NO_RETRY (Do not retry when the next message comes.). A partially successful scaling is judged as a failure.</p> <ul style="list-style-type: none"> <li>IMMEDIATE_RETRY: Stop retrying immediately. Stop retrying after consecutive failures.</li> <li>INCREMENTAL_RETRY: Stop retrying at incremental intervals. After consecutive failures increase, the interval gradually increases from seconds to one day.</li> <li>NO_RETRY: Do not retry when the next message comes.</li> </ul>
ZonesCheckPolicy	No	String	<p>Availability zone verification range: ALL, ANY. Default: ALL.</p> <ul style="list-style-type: none"> <li>ALL: The verification is successful only if all availability zones (Zones) or subnets (SubnetId) are available; otherwise, an error will be reported.</li> <li>ANY: The verification is successful if any availability zone (Zones) or subnet (SubnetId) is available; otherwise, an error will be reported.</li> </ul>

			<p>error will be reported.</p> <p>Common reasons why an availability zone or subnet is unavailable include: the availability zone is full of CVM instances or CLB instances, the availability zone is in a maintenance state, the availability zone is in a fault state, or the subnet is in a fault state.</p> <p>If an availability zone or subnet is unavailable, the verification error will be reported regardless of the value of <code>ZonesCheckPolicy</code>.</p>
Tags.N	No	Array of <a href="#">Tag</a>	List of tag descriptions. In a scaling group, you can specify the tags for a scaling group as well as for resource instances. Each resource instance can have up to 30 tags.
ServiceSettings	No	<a href="#">ServiceSettings</a>	Service settings such as instance replacement.
Ipv6AddressCount	No	Integer	The number of IPv6 addresses that an instance has. Valid value range: 0-100. Default value: 0.
MultiZoneSubnetPolicy	No	String	<p>Multi-availability zone/subnet policy. Valid values: PRIORITY and EQUALITY. Default value: PRIORITY.</p> <ul style="list-style-type: none"> <li><b>PRIORITY:</b> when creating instances, choose the availability zone/subnet on the order in the list from top to bottom. If the first instance is successful in the availability zone/subnet with the highest priority, all instances created in this availability zone/subnet will be created in this availability zone/subnet.</li> <li><b>EQUALITY:</b> instances created in scale-out are distributed evenly across all availability zones/subnets. The number of instances created in each availability zone/subnet is equal.</li> </ul>

			<p>Notes:</p> <ul style="list-style-type: none"> <li>When the scaling group is in the classic network, this policy applies to multiple availability zones. If the scaling group is based on the VPC network, this policy applies to multiple availability zones. You do not need to consider a specific availability zone. For example, if you have three availability zones (A, B, and C) and A, B, and C are in availability zone 1 and D is in availability zone 2, you only need to specify the policy for availability zone 1. The policy will be applied to all four subnets, without the need to specify the issue of availability zones.</li> <li>This policy is applicable to multiple availability zones/subnets. It is applicable to multiple models. Specify the policy according to the model.</li> <li>When creating instances, the PRIORITY policy is applied. If the PRIORITY policy is applied, then apply the zones/subnet policy. For example, if you have models A and B and three instances (1, 2, and 3), creation will be in the following order: A1, A2, A3, B1, B2, B3. If A1 is sold out, A2 is next.</li> </ul>
HealthCheckType	No	String	<p>Health check type of instance in scaling group.</p> <ul style="list-style-type: none"> <li>CVM: confirm whether the instance is healthy based on the network ping. If the pinged instance is unreachable, the instance will be considered unhealthy. For more information, see <a href="#">Instance Health Check</a>.</li> <li>CLB: confirm whether the instance is healthy based on the CLI status. For more information, see <a href="#">Check Overview</a>.</li> </ul> <p>If the parameter is set to true, the scaling group will check the health of the instance.</p>

			<p>status and the CLB health check indicates the network check indicates the <code>HealthStatus</code> field is <code>UNHEALTHY</code>. If the CLB indicates unhealthy, the <code>HealthStatus</code> field is <code>CLB_UNHEALTHY</code>. If the CLB indicates unhealthy, the <code>HealthStatus</code> field is <code>UNHEALTHY</code>; CLB .</p> <p>Default value: CLB .</p>
LoadBalancerHealthCheckGracePeriod	No	Integer	<p>Grace period of the CLB during which the <code>IN_SERVICE</code> instances added will not be <code>CLB_UNHEALTHY</code>. Valid range: 0-7200, in seconds. Default value: 0 .</p>
InstanceAllocationPolicy	No	String	<p>Specifies how to assign instances. Valid values: <code>LAUNCH_CONFIGURATION</code> and <code>SPOT_MIXED</code>; default value: <code>LAUNCH_CONFIGURATION</code>.</p> <ul style="list-style-type: none"> <li><code>LAUNCH_CONFIGURATION</code>: a mode. Currently, this mode is only valid when the launch configuration is set to <code>LAUNCH_CONFIGURATION</code>.</li> <li><code>SPOT_MIXED</code>: a mode. Currently, this mode is only valid when the launch configuration is set to <code>LAUNCH_CONFIGURATION</code> and the pay-as-you-go billing mode, the scaling group combination of pay-as-you-go and spot instances to meet capacity. Note that the billing mode of the associated launch configuration is modified when this mode is set to <code>SPOT_MIXED</code>.</li> </ul>
SpotMixedAllocationPolicy	No	<a href="#">SpotMixedAllocationPolicy</a>	<p>Specifies how to assign instances and spot instances. This parameter is valid only when the <code>InstanceAllocationPolicy</code> is set to <code>SPOT_MIXED</code>.</p>
CapacityRebalance	No	Boolean	<p>Indicates whether the capacity rebalancing is enabled.</p>

			<p>balancing feature is enabled. This parameter is only valid for scaling groups in the scaling group. Valid values:</p> <ul style="list-style-type: none"> <li><code>TRUE</code>: yes. Before scaling activity starts, instances in the scaling group will be automatically repositioned. The scaling activity will terminate them. The scaling activity (if configured) will take effect after the termination. After the termination starts, AS will asynchronously start scaling activity to meet the target capacity.</li> <li><code>FALSE</code>: no. In this case, instances will not be repositioned to meet the target capacity only after the spot instances are terminated.</li> </ul> <p>Default value: <code>False</code>.</p>
InstanceNameIndexSettings	No	<a href="#">InstanceNameIndexSettings</a>	<p>Instance name sequencing parameter is not specified. When enabled, incremental numeric sequences are appended to the names of automatically created instances in the scaling group.</p>

### 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 an auto scaling group

This example shows how to create an auto scaling group in a specified VPC and configure a layer-7 load balancer.

### Input Example

```
https://as.tencentcloudapi.com/?Action=CreateAutoScalingGroup
&AutoScalingGroupName=asg-vpc-7layer-lb
&DefaultCooldown=300
&DesiredCapacity=0
&LaunchConfigurationId=asc-7vucy6ae
&MaxSize=10
&MinSize=0
&ProjectId=0
&VpcId=vpc-hy436tmc
&SubnetIds.0=subnet-3tmerl37
&SubnetIds.1=subnet-b0vxjhot
&TerminationPolicies.0=OLDEST_INSTANCE
&ForwardLoadBalancers.0.LoadBalancerId=lb-23aejgcv
&ForwardLoadBalancers.0.ListenerId=lbl-ncw704sn
&ForwardLoadBalancers.0.LocationId=loc-13hmaev9
&ForwardLoadBalancers.0.Region=ap-guangzhou
&ForwardLoadBalancers.0.TargetAttributes.0.Port=8080
&ForwardLoadBalancers.0.TargetAttributes.0.Weight=10
&<common request parameters>
```

### 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.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

Last updated : 2024-10-25 15:15:59

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ScaleOutInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> 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.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

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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
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.

# ScaleInInstances

Last updated : 2024-10-25 15:16:50

## 1. API Description

Domain name for API request: as.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 statuses, 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	<a href="#">Common Params</a> . The value used for this API: ScaleInInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.



Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID
ScaleInNumber	Yes	Integer	Number of instances to be reduced

### 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.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

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.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

Last updated : 2024-10-25 15:16:10

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeAutoScalingAdvices.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupIds.N	Yes	Array of String	List of scaling groups to be queried. Upper limit: 100.

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

AutoScalingAdviceSet	Array of <a href="#">AutoScalingAdvice</a>	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.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
InternalServerError	An internal error occurred.

---

InvalidParameter.ActionNotFound	Invalid Action request.
InvalidParameterValue.LimitExceeded	The value exceeds the limit.

# Launch Configuration APIs

## ModifyLaunchConfigurationAttributes

Last updated : 2024-10-25 15:16:27

### 1. API Description

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

This API (ModifyLaunchConfigurationAttributes) is used to modify some attributes of a launch configuration.

- The changes of launch configuration do not affect the existing instances. New instances will be created based on the modified configuration.
- This API supports modifying certain simple types of attributes.

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	<a href="#">Common Params</a> . The value use this API: ModifyLaunchConfigurationAttrit
Version	Yes	String	<a href="#">Common Params</a> . The value use this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the produc



LaunchConfigurationId	Yes	String	Launch configuration ID
ImageId	No	String	<p><a href="#">Image</a> ID in the format of <code>img-xxx</code>. There are three types of images:</p> <ul style="list-style-type: none"> <li>Public images</li> <li>Custom images</li> <li>Shared images</li> </ul> <p>You can obtain the image IDs in <a href="#">CVM console</a>.</p> <ul style="list-style-type: none"> <li>You can also use the <a href="#">DescribeImages</a> and look for <code>ImageId</code> in the response.</li> </ul>
InstanceTypes.N	No	Array of String	<p>List of instance types. Each type specifies different resource specifications. This list contains up to 10 instance types.</p> <p>The launch configuration uses <code>InstanceType</code> to indicate one single instance type and <code>InstanceTypes</code> to indicate multiple instance types. Specifying the <code>InstanceTypes</code> field will invalidate the original <code>InstanceType</code>.</p>
InstanceTypesCheckPolicy	No	String	<p>InstanceType verification policy, which is effective when actual modification is made to InstanceTypes. Valid values include ALL and ANY and the default value is ANY.</p> <ul style="list-style-type: none"> <li>ALL: Verification passes if all InstanceTypes are available; otherwise, a verification error will be reported.</li> <li>ANY: Verification passes if any InstanceType is available; otherwise, a verification error will be reported.</li> </ul> <p>Common reasons for unavailable InstanceTypes include the InstanceType being sold out, and corresponding cloud disk being sold out.</p>

			<p>out.</p> <p>If a model in InstanceTypes does exist or has been abolished, a verification error will be reported regardless of the valid values set InstanceTypesCheckPolicy.</p>
LaunchConfigurationName	No	String	<p>Display name of the launch configuration, which can contain Chinese characters, letters, num underscores, separators ("-"), an decimal points with a maximum length of 60 bytes.</p>
UserData	No	String	<p>Base64-encoded custom data of to 16 KB. If you want to clear <code>UserData</code> , set it to an empty string.</p>
SecurityGroupIds.N	No	Array of String	<p>Security group to which the insta belongs. This parameter can be obtained from the <code>SecurityGroupId</code> field in the response of the <code>DescribeSecurityGroups</code> API.</p> <p>At least one security group is req for this parameter. The security g specified is sequential.</p>
InternetAccessible	No	<a href="#">InternetAccessible</a>	<p>Information of the public network bandwidth configuration.</p> <p>When the public outbound netwo bandwidth is 0 Mbps, assigning ; public IP is not allowed. Accordir if a public IP is assigned, the nev public network outbound bandwi must be greater than 0 Mbps.</p>
InstanceChargeType	No	String	<p>Instance billing mode. Valid value</p> <ul style="list-style-type: none"> <li>POSTPAID_BY_HOUR: pay-you-go hourly</li> <li>SPOTPAID: spot instance</li> </ul>

InstanceChargePrepaid	No	<a href="#">InstanceChargePrepaid</a>	<p>Parameter setting for the prepaid mode (monthly subscription mode). This parameter can specify the renewal period, whether to set the auto-renewal, and other attributes of the monthly-subscribed instance. This parameter is required when changing the instance billing mode to monthly subscription. It will be automatically discarded after you choose another billing mode. This field requires passing in the <code>Period</code> field. Other fields that are not passed in will use their default values. This field can be modified only when the current billing mode is monthly subscription.</p>
InstanceMarketOptions	No	<a href="#">InstanceMarketOptionsRequest</a>	<p>Market-related options for instances, such as parameters related to spot instances. This parameter is required when changing the instance billing mode to spot instance. It will be automatically discarded after you choose another instance billing mode. This field requires passing in the <code>MaxPrice</code> field under the <code>SpotOptions</code>. Other fields that are not passed in will use their default values. This field can be modified only when the current billing mode is spot instance.</p>
DiskTypePolicy	No	String	<p>Cloud disk type selection policy. values:</p> <ul style="list-style-type: none"> <li>ORIGINAL: Use the set cloud type.</li> <li>AUTOMATIC: Automatically select the currently available cloud disk type.</li> </ul>
SystemDisk	No	<a href="#">SystemDisk</a>	Instance system disk configuration.

DataDisks.N	No	Array of <a href="#">DataDisk</a>	<p>Configuration information of instance data disks.</p> <p>Up to 11 data disks can be specified and will be collectively modified. Please provide all the new values for the modification.</p> <p>The default data disk should be the same as the system disk.</p>
HostNameSettings	No	<a href="#">HostNameSettings</a>	<p>CVM hostname settings.</p> <p>This field is not supported for Windows instances.</p> <p>This field requires passing the <code>HostName</code> field. Other fields that are not passed in will use their default values.</p>
InstanceNameSettings	No	<a href="#">InstanceNameSettings</a>	<p>Settings of CVM instance names</p> <p>If this field is configured in a 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.</p> <p>This field requires passing in the <code>InstanceName</code> field. Other fields that are not passed in will use the default values.</p>
EnhancedService	No	<a href="#">EnhancedService</a>	<p>Specifies whether to enable additional services, such as security services and monitoring service.</p>
CamRoleName	No	String	<p>CAM role name. This parameter can be obtained from the <code>roleName</code> field returned by DescribeRoleList API.</p>
HpcClusterId	No	String	<p>HPC ID</p> <p>Note: This field is default to empty.</p>
IPv6InternetAccessible	No	<a href="#">IPv6InternetAccessible</a>	<p>IPv6 public network bandwidth configuration. If the IPv6 address</p>

			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 associated with the launch configuration is 0.
<code>DisasterRecoverGroupIds.N</code>	No	Array of String	Placement group ID. Only one is allowed.
<code>LoginSettings</code>	No	<a href="#">LoginSettings</a>	Instance login settings, which include passwords, keys, or the original login settings inherited from the image. Please note that specifying new login settings will overwrite the existing ones. For instance, if you previously used a password for login and then use this parameter to switch the settings to a key, the original password will be removed.
<code>InstanceTags.N</code>	No	Array of <a href="#">InstanceTag</a>	Instance tag list. By specifying this parameter, the instances added through scale-out can be bound to a tag. Up to 10 tags can be specified. This parameter will overwrite the original instance tag list. To add tags, you need to pass the new tags along with the original tags.
<code>ImageFamily</code>	No	String	Image family name.

### 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 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.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.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

Last updated : 2024-10-25 15:16:28

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeLaunchConfigurations.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
LaunchConfigurationIds.N	No	Array of String	Queries by one or more launch configuration IDs in the format of <code>asc-ouy1ax38</code> . The maximum 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 <a href="#">Filter</a>	<p>Filter criteria</p> <ul style="list-style-type: none"> <li>• <code>launch-configuration-id</code> - String - required: no - (filter condition) filter by launch configuration ID.</li> <li>• <code>launch-configuration-name</code> - String - required: no - (filter condition) filter by launch configuration name.</li> <li>• <code>vague-launch-configuration-name</code> - String - required: no - (filter condition) fuzzy search by launch configuration name.</li> <li>• <code>tag-key</code> - String - required: no - (filter condition) filter by tag key.</li> <li>• <code>tag-value</code> - String - required: no - (filter condition) filter by tag value.</li> <li>• <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.</li> </ul> <p>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>.</p>
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 <a href="#">Introduction</a> .
Offset	No	Integer	The offset. Default value: <code>0</code> . For more information on <code>Offset</code> , see the relevant sections in API <a href="#">Introduction</a> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible launch configurations.
LaunchConfigurationSet	Array of <a href="#">LaunchConfiguration</a>	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.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": "",
"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": "",
"HostNameSettings": {
  "HostName": null,
  "HostNameSuffix": null,
  "HostNameStyle": null
},
"InstanceNameSettings": {
  "InstanceName": "",
  "InstanceNameSuffix": null,
  "InstanceNameStyle": ""
},
"InstanceChargePrepaid": {
  "Period": 0,
  "RenewFlag": ""
},
"HpcClusterId": ""
},
"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.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": "",
"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": "",
"HostNameSettings": {
  "HostName": null,
  "HostNameSuffix": null,
  "HostNameStyle": null
},
"InstanceNameSettings": {
  "InstanceName": "",
  "InstanceNameSuffix": null,
  "InstanceNameStyle": ""
},
"InstanceChargePrepaid": {
  "Period": 0,
  "RenewFlag": ""
},
"HpcClusterId": ""
},
{
  "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": "",
```

```
"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": "",
"HostNameSettings": {
  "HostName": null,
  "HostNameSuffix": null,
  "HostNameStyle": null
},
"InstanceNameSettings": {
  "InstanceName": "",
  "InstanceNameSuffix": null,
  "InstanceNameStyle": ""
},
"InstanceChargePrepaid": {
  "Period": 0,
  "RenewFlag": ""
},
"HpcClusterId": ""
},
"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.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": "",
"IPv6InternetAccessible": {
  "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
  "InternetMaxBandwidthOut": 0,
  "BandwidthPackageId": null
},
"DisasterRecoverGroupIds": [],
"CreatedTime": "2022-07-14T06:37:08Z",
"UpdatedTime": "2022-07-14T06:37:08Z",
"CamRoleName": "",
"HostNameSettings": {
  "HostName": null,
  "HostNameSuffix": null,
  "HostNameStyle": null
},
"InstanceNameSettings": {
  "InstanceName": "",
  "InstanceNameSuffix": null,
  "InstanceNameStyle": ""
},
"InstanceChargePrepaid": {
  "Period": 0,
  "RenewFlag": ""
},
"HpcClusterId": ""
}
```

```
],  
  "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

Last updated : 2024-10-25 15:16:29

## 1. API Description

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

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

- If the launch configuration is active in an auto 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	<a href="#">Common Params</a> . The value used for this API: DeleteLaunchConfiguration.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
LaunchConfigurationId	Yes	String	ID of the launch configuration to be deleted.

## 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.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

Last updated : 2024-10-25 15:16:30

## 1. API Description

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

This API is used to create a launch configuration.

- To modify a launch configuration, please use `ModifyLaunchConfigurationAttributes`.
- Up to 20 launch configurations can be created for each project. For more information, 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	<a href="#">Common Params</a> . The value used for this API: CreateLaunchConfiguration.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> 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	<p><a href="#">Image</a> ID in the format of <code>img-xxx</code> . There are three types of images:</p> <ul style="list-style-type: none"> <li>• Public images</li> <li>• Custom images</li> <li>• Shared images</li> </ul> <p>You can obtain the image IDs in the <a href="#">CVM console</a>.</p> <ul style="list-style-type: none"> <li>• You can also use the <a href="#">DescribeImages</a> and look for <code>ImageId</code> in the response.</li> </ul>
ProjectId	No	Integer	Project ID of the launch configuration. The default project is used if it's left blank. Note that this project ID is not the same as the project ID of the scaling group.
InstanceType	No	String	<p>Instance model. Different instance models specify different resource specifications. The specific value can be obtained by calling the <a href="#">DescribeInstanceTypeConfigs</a> API to get the latest specification table or referring to the descriptions in <a href="#">Instance Types</a>.</p> <p><code>InstanceType</code> and <code>InstanceTypes</code> are mutually exclusive, and one and only one of them must be entered.</p>
SystemDisk	No	<a href="#">SystemDisk</a>	System disk configuration of the instance. If this parameter

			is not specified, the default value will be used.
DataDisks.N	No	Array of <a href="#">DataDisk</a>	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.
InternetAccessible	No	<a href="#">InternetAccessible</a>	Configuration of public network bandwidth. If this parameter is not specified, 0 Mbps will be used by default.
LoginSettings	No	<a href="#">LoginSettings</a>	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 in the returned value of <a href="#">DescribeSecurityGroups</a> . If this parameter is not specified, no security group will be bound by default.
EnhancedService	No	<a href="#">EnhancedService</a>	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: <ul style="list-style-type: none"> <li><code>POSTPAID_BY_HOUR</code>: pay-as-you-go hourly</li> <li><code>SPOTPAID</code>: spot instance</li> </ul>
InstanceMarketOptions	No	<a href="#">InstanceMarketOptionsRequest</a>	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	List of instance models. Different instance models specify different resource specifications. Up to 10 instance models can be supported. <code>InstanceType</code> and <code>InstanceTypes</code> are mutually exclusive, and one and only one of them must be entered.
CamRoleName	No	String	CAM role name. This parameter can be obtained from the <code>roleName</code> field returned by DescribeRoleList API.
InstanceTypesCheckPolicy	No	String	InstanceType verification policy, whose valid values include ALL and ANY, with the default value being ANY. <ul style="list-style-type: none"> <li><code>ALL</code>: Verification passes if all InstanceTypes are available; otherwise, a verification error will be reported.</li> </ul>

			<ul style="list-style-type: none"> <li>• ANY: Verification passes if any InstanceType is available; otherwise, a verification error will be reported.</li> </ul> <p>Common reasons for unavailable InstanceTypes include the InstanceType being sold out, and the corresponding cloud disk being sold out.</p> <p>If a model in InstanceTypes does not exist or has been abolished, a verification error will be reported regardless of the valid values set for InstanceTypesCheckPolicy.</p>
InstanceTags.N	No	Array of <a href="#">InstanceTag</a>	List of tags. This parameter is used to bind up to 10 tags to newly added instances.
Tags.N	No	Array of <a href="#">Tag</a>	List of tags. You can specify tags that you want to bind to the launch configuration. Each launch configuration can have up to 30 tags.
HostNameSettings	No	<a href="#">HostNameSettings</a>	CVM hostname settings.
InstanceNameSettings	No	<a href="#">InstanceNameSettings</a>	<p>Settings of CVM instance names</p> <p>If this field is configured in a 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.</p>
InstanceChargePrepaid	No	<a href="#">InstanceChargePrepaid</a>	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 is ORIGINAL. Valid values: <ul style="list-style-type: none"> <li>ORIGINAL: Use the set cloud disk type.</li> <li>AUTOMATIC: Automatically select the currently available cloud disk type.</li> </ul>
HpcClusterId	No	String	HPC ID  Note: This field is default to empty
IPv6InternetAccessible	No	<a href="#">IPv6InternetAccessible</a>	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 associated with the launch configuration is 0.
DisasterRecoverGroupIds.N	No	Array of String	Placement group ID. Only one is allowed.
ImageFamily	No	String	Image family name. Either image ID or image family name should be filled in, and only one of which can be filled.

### 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.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.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateLaunchConfiguration
<Common request parameters>

{
  "SystemDisk": {
    "DiskSize": "50",
    "DiskType": "LOCAL_BASIC"
  },
  "LoginSettings": {
    "KeyIds": [
      "skey-k8eypc11"
    ]
  },
  "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.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.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

Last updated : 2024-10-25 15:16:25

## 1. API Description

**This API will be disused soon.**

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

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

已有替代接口ModifyLaunchConfiguration。该接口存在覆盖参数风险，目前官网已隐藏

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	<a href="#">Common Params</a> . The value used for this API: UpgradeLaunchConfiguration.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more

			information, please see the <a href="#">list of regions</a> supported by the product.
LaunchConfigurationId	Yes	String	Launch configuration ID.
ImageId	Yes	String	<p><a href="#">Image</a> ID in the format of <code>img-xxx</code>. There are three types of images:</p> <ul style="list-style-type: none"> <li>Public images</li> <li>Custom images</li> <li>Shared images</li> </ul> <p>You can obtain the image IDs in the <a href="#">CVM console</a>.</p> <ul style="list-style-type: none"> <li>You can also use the <a href="#">DescribeImages</a> and look for <code>ImageId</code> in the response.</li> </ul>
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 <a href="#">DataDisk</a>	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	<a href="#">EnhancedService</a>	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	<p>Instance billing type. CVM instances are POSTPAID_BY_HOUR by default.</p> <ul style="list-style-type: none"> <li>• POSTPAID_BY_HOUR: Pay-as-you-go on an hourly basis</li> <li>• SPOTPAID: Bidding</li> </ul>
InstanceMarketOptions	No	<a href="#">InstanceMarketOptionsRequest</a>	Market options of the instance, such as parameters related to spot instances. This parameter is required for spot instances.
InstanceTypesCheckPolicy	No	String	<p>Instance type verification policy. Value range: ALL, ANY. Default value: ANY.</p> <ul style="list-style-type: none"> <li>• ALL: The verification will success only if all instance types (InstanceType) are available; otherwise, an error will be reported.</li> <li>• ANY: The verification will success if any instance type (InstanceType) is available; otherwise, an error will be reported.</li> </ul> <p>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</p>

			regardless of the value of InstanceTypesCheckPolicy.
InternetAccessible	No	<a href="#">InternetAccessible</a>	Configuration of public network bandwidth. If this parameter is not specified, 0 Mbps will be used by default.
LoginSettings	No	<a href="#">LoginSettings</a>	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 <a href="#">DescribeSecurityGroups</a> . If this parameter is not specified, no security group will be bound by default.
SystemDisk	No	<a href="#">SystemDisk</a>	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 <a href="#">InstanceTag</a>	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	<a href="#">HostNameSettings</a>	CVM hostname settings.
InstanceNameSettings	No	<a href="#">InstanceNameSettings</a>	Settings of CVM instance names
InstanceChargePrepaid	No	<a href="#">InstanceChargePrepaid</a>	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	Selection policy of cloud disks. Default value: ORIGINAL. Valid values: <ul style="list-style-type: none"> <li>ORIGINAL: uses the configured cloud disk type</li> <li>AUTOMATIC: automatically chooses an available cloud disk type</li> </ul>
IPv6InternetAccessible	No	<a href="#">IPv6InternetAccessible</a>	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 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.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.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UpgradeLaunchConfiguration
<Common request parameters>

{
  "SystemDisk": {
    "DiskSize": "50",
    "DiskType": "LOCAL_BASIC"
  },
  "LoginSettings": {
    "KeyIds": [
      "skey-k8eypc11"
    ]
  },
  "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

Last updated : 2024-10-25 15:16:59

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ClearLaunchConfigurationAttributes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
LaunchConfigurationId	Yes	String	Launch configuration ID
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.

### 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.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

Last updated : 2024-10-25 15:15:47

### 1. Service Address

The API supports access from either a nearby region (at `as.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.tencentcloudapi.com</code>
South China (Guangzhou)	<code>as.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>as.ap-shanghai.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)	<code>as.ap-hongkong.tencentcloudapi.com</code>
Southeast Asia (Singapore)	<code>as.ap-singapore.tencentcloudapi.com</code>
Southeast Asia (Bangkok)	<code>as.ap-bangkok.tencentcloudapi.com</code>

South Asia (Mumbai)	as.ap-mumbai.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
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

Last updated : 2024-10-25 15:15:48

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 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> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data you 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. 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.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request is sent. For example, 1529223702. Note: If the difference between the UNIX timestamp and server time is greater than 5 minutes, a signature expiration error may occur.
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the common parameter <code>Version</code> in the API documentation. For example, the version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request;SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date is UNIX time, and this value must match the value of X-TC-Timestamp (a co



			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencent refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication information 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 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/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/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=AKIDEXAMPLE/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=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
```

```
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 <a href="#">Cloud API Key</a> 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=AKIDEXAMPLE
```

```
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=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

## 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
South Asia (Mumbai)	ap-mumbai
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

Last updated : 2024-07-19 14:20:55

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 `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****` and `Gu5t9xGARNpq86cd98joQYCN3*****`, 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=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e4
1437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff" \
-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	<p>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: <code>Limit=10&amp;Offset=0</code>.</p> <p>Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing <a href="#">RFC3986</a>, the UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.</p>
CanonicalHeaders	<p>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 the signature process to improve the uniqueness and security of the request.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> <li>Both the key and value of the header should be converted to lowercase with the leading and trailing spaces removed, so they are concatenated in the format of <code>key:value\n</code> format;</li> <li>If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase).</li> </ol> <p>The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>.</p> <p>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 signature verification failed.</p>
SignedHeaders	<p>Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the headers in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> <li>Both the key and value of the header should be converted to lowercase;</li> <li>If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;).</li> </ol> <p>The value in this example is <code>content-type;host</code></p>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filter</code>



```
[{"Values": ["unnamed"], "Name": "instance-name"}]}
```

 in this example  
 The pseudocode for calculation is  
 Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the payload of the HTTP request, performing hexadecimal encoding, and finally converting the encoded string to lowercase letters. For GET requests, `RequestPayload` is always an empty string. The calculation result in this example is  
 99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907

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:

```
StringToSign =
Algorithm + \n +
RequestTimestamp + \n +
CredentialScope + \n +
HashedCanonicalRequest
```

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 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 date, requested service and termination string ( <code>tc3_request</code> ). <b>Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp</b> ; <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>20180525/cvm/tc3_request</code> .

HashedCanonicalRequest

Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))). The calculation result in this example is

```
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
```

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
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

### 3. Calculating the Signature

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

```
SecretKey = "Gu5t9xGARNpq86cd98joQYCN3*****"
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., <code>Gu5t9xGARNpq86cd98joQYCN3*****</code> .
Date	The Date field information in <code>Credential</code> , such as <code>2019-02-25</code> in this example.

Service	Value in the Service field in <code>Credential</code> , such as <code>cvm</code> 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 <code>TC3-HMAC-SHA256</code> .
SecretId	The SecretId in the key pair, i.e., <code>AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****</code> .
CredentialScope	Credential scope (see above). The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .
SignedHeaders	Header information for signature calculation (see above), such as <code>content-type;host</code> in this example.
Signature	Signature value. The calculation result in this example is <code>c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff</code> .

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

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

```
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=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";
    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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

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.utcnow().fromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"Name": "instance-name", "Values": ["unnamed"]}]}

# ***** 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 := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"
    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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$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 = 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****'
secret_key = 'Gu5t9xGARNpq86cd98joQYCN3*****'

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, Mi

```

```
dpointRounding.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" + cre
dentialScope + "\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_requ
est"));
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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

    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 project, 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\": [\"\\u672a\\u547d\\u540d\"], \"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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"

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++)
    {
        sprintf(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 OPENSSSL_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 OPENSSSL_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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

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 + "/" + creden
tialScope + ", "
+ "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: AKIDz8krbsJ5yKBZQpn74WFkmLPx3\*\*\*\*\*
- SecretKey: Gu5t9xGARNpq86cd98joQYCN3\*\*\*\*\*

**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	AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
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' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****',
  '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=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&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=AKIDz8krbsJ5yKBZQpn74WF
kmLPx3*****&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 = 'Gu5t9xGARNpq86cd98joQYCN3*****';

```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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 `zmmjn35mikh6pM3V7sUEuX4wyYM=`, the final signature string request parameter (Signature) is `zmmjn35mikh6pM3V7sUEuX4wyYM%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=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Signature=zmmjn35mikh6pM3V7sUEuX4wyYM%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", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"); // 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), "Gu5t9xGARNpq86cd98joQYCN3*****", "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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"
```

```
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 := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"
```

```
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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$params["Nonce"] = 11886;//rand();
```

```
$param["Timestamp"] = 1465185768;//time();
$param["Region"] = "ap-guangzhou";
$param["SecretId"] = $secretId;
$param["Version"] = "2017-03-12";
$param["Action"] = "DescribeInstances";
$param["InstanceIds.0"] = "ins-09dx96dg";
$param["Limit"] = 20;
$param["Offset"] = 0;

ksort($param);

$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $param 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
// $param["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($param);
// 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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

    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>(p
aram, 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(sigOutPa
ram);
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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"

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

Last updated : 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
<code>AuthFailure.InvalidSecretId</code>	Invalid key (not a TencentCloud API key type).
<code>AuthFailure.MFAFailure</code>	MFA failed.
<code>AuthFailure.SecretIdNotFound</code>	The key does not exist.
<code>AuthFailure.SignatureExpire</code>	Signature expired.
<code>AuthFailure.SignatureFailure</code>	Signature error.
<code>AuthFailure.TokenFailure</code>	Token error.
<code>AuthFailure.UnauthorizedOperation</code>	The request does not have CAM authorization.
<code>DryRunOperation</code>	DryRun Operation. It means that the request would have succeeded, but the <code>DryRun</code> parameter was used.
<code>FailedOperation</code>	Operation failed.
<code>InternalError</code>	Internal error.
<code>InvalidAction</code>	The API does not exist.
<code>InvalidParameter</code>	Incorrect parameter.
<code>InvalidParameterValue</code>	Invalid parameter value.
<code>LimitExceeded</code>	Quota limit exceeded.
<code>MissingParameter</code>	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.



# Scaling Group Instances APIs

## RemoveInstances

Last updated : 2024-10-25 15:15:56

### 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: RemoveInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.

AutoScalingGroupId	Yes	String	Auto scaling group ID
InstanceIds.N	Yes	Array of String	List of CVM instance IDs

### 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.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: RemoveInstances
<Common request parameters>

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

##### Output Example

```
{
  "Response": {
    "ActivityId": "asa-dne04cxp",
```

```
"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.

- [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.
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

Last updated : 2024-10-25 15:15:58

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DetachInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group ID

InstanceIds.N	Yes	Array of String	List of CVM instance IDs
---------------	-----	-----------------	--------------------------

### 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.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DetachInstances
<Common request parameters>

{
  "AutoScalingGroupId": "asg-boz1qhnk",
  "InstanceIds": [
    "ins-osckf7",
    "ins-cri8d02t"
  ]
}
```

##### Output Example

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

```
}  
}
```

## 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
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

Last updated : 2024-10-25 15:15:58

## 1. API Description

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

This API is used to add CVM instances to an auto scaling group.

- Only CVM instances in `RUNNING` or `STOPPED` status can be added.
- The added CVM instances must in the same VPC as 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	<a href="#">Common Params</a> . The value used for this API: AttachInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group ID
InstanceIds.N	Yes	Array of String	List of CVM instance IDs

### 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.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: AttachInstances
<Common request parameters>

{
  "AutoScalingGroupId": "asg-boz1qhnk",
  "InstanceIds": [
    "ins-osckf7",
    "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 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.
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

Last updated : 2024-10-25 15:15:55

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: SetInstancesProtection.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group ID.
InstanceIds.N	Yes	Array of String	Instance ID.
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.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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- [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
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

Last updated : 2024-10-25 15:16:47

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: StartAutoScalingInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	The scaling group ID.
InstanceIds.N	Yes	Array of String	The list of the CVM instances you want to start up.



### 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.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StartAutoScalingInstances
<Common request parameters>

{
  "AutoScalingGroupId": "asg-boz1qhnk",
  "InstanceIds": [
    "ins-osckf7",
    "ins-cri8d02t"
  ]
}
```

##### Output Example

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

## 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.
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

Last updated : 2024-10-25 15:16:46

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: StopAutoScalingInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	The scaling group ID.

InstanceIds.N	Yes	Array of String	The list of the CVM instances you want to shut down.
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.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-m1ebisk1",
    "RequestId": "f3e2873c-af7c-43ee-8aa7-53565d4181c2"
  }
}
```

## 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.
FailedOperation.NoActivityToGenerate	No scaling activity is generated.
InternalServerError.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 <b>No Charges When Shut Down</b> .
ResourceUnavailable.LoadBalancerInOperation	CLB is active in the scaling group.

# ExitStandby

Last updated : 2024-10-25 15:16:49

## 1. API Description

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

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

- When an instance is in standby status, its load balancer weight is set to 0. Upon exiting the standby status, the weight value automatically gets restored.
- Initiating power-on/power-off actions on instances that are in standby status also results in them exiting from the standby status.

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	<a href="#">Common Params</a> . The value used for this API: ExitStandby.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID.
InstanceIds.N	Yes	Array of String	List of CVM instances in standby status.



### 3. Output Parameters

Parameter Name	Type	Description
ActivityId	String	Scaling activity ID. Note: This field may return null, indicating that no valid value can be obtained.
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-boz1qhnk`.

#### Input Example

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

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](#)
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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.
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.
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.

# Scheduled Action APIs

## ModifyScheduledAction

Last updated : 2024-10-25 15:15:50

### 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ModifyScheduledAction.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
ScheduledActionId	Yes	String	ID of the scheduled task to be edited
ScheduledActionName	No	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	No	Integer	The maximum number of instances set for the auto

			scaling group when the scheduled task is triggered.
MinSize	No	Integer	The minimum number of instances set for the auto scaling group when the scheduled task is triggered.
DesiredCapacity	No	Integer	The desired number of instances set for the auto scaling group when the scheduled task is triggered.
StartTime	No	Timestamp ISO8601	Initial triggered time of the scheduled task. The value is in <code>Beijing time (UTC+8)</code> 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 (UTC+8)</code> 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	Repeating mode of the scheduled task, which is in standard cron format. This parameter and <code>EndTime</code> need to 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 Modifying a scheduled action

##### Input Example

```
POST / HTTP/1.1
Host: as.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.

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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.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.InvalidScheduledActionNameIncludeIllegalChar	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

Last updated : 2024-10-25 15:15:51

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeScheduledActions.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
ScheduledActionIds.N	No	Array of String	Queries by one or more scheduled task IDs in the format of asst-am691zxo. The maximum number of instances per request is 100. This parameter does not support specifying both ScheduledActionIds and Filters` at the same time.

Filters.N	No	Array of <a href="#">Filter</a>	Filter. <ul style="list-style-type: none"> <li>• scheduled-action-id - String - Required: No - (Filter) Filter by scheduled task ID.</li> <li>• scheduled-action-name - String - Required: No - (Filter) Filter by scheduled task name.</li> <li>• auto-scaling-group-id - String - Required: No - (Filter) Filter by auto scaling group ID.</li> </ul>
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API <a href="#">overview</a> .
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 <a href="#">overview</a> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible scheduled tasks.
ScheduledActionSet	Array of <a href="#">ScheduledAction</a>	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 actions

##### Input Example

```
POST / HTTP/1.1
Host: as.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": "test",
        "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

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
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.InvalidScheduledActionId	Invalid scheduled action ID.
ResourceNotFound.ScheduledActionNotFound	The specified scheduled task does not exist.

# DeleteScheduledAction

Last updated : 2024-10-25 15:15:51

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DeleteScheduledAction.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
ScheduledActionId	Yes	String	ID of the scheduled task to be deleted.

## 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.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

### 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](#)
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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.
InvalidParameterValue.InvalidScheduledActionId	Invalid scheduled action ID.
ResourceNotFound.ScheduledActionNotFound	The specified scheduled task does not exist.

# CreateScheduledAction

Last updated : 2024-10-25 15:15:52

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: CreateScheduledAction.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group ID
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 (UTC+8)</code> 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 (UTC+8)</code> 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	Repeating mode of the scheduled task, which is in standard cron format.  This parameter and <code>EndTime</code> need to be specified at the same time.

### 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 single-run scheduled action

This example shows you how to create a scheduled action to adjust the maximum, minimum, and desired capacity of the scaling group to 10, 4, and 6 respectively at 23:00, August 28, 2018 (UTC+8).

## Input Example

```
POST / HTTP/1.1
Host: as.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 recurring scheduled action

This example shows you how to create a scheduled action to adjust the maximum, minimum, and desired capacity of a scaling group to 7, 2, and 3 respectively at 23:00 every day starting from August 28, 2018 and ending at 00:00, January 1, 2019 (UTC+8).

## Input Example

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

{
  "Recurrence": "0 23 */1 * *",
  "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-1e3us530",
    "RequestId": "502fd6fa-44ff-4c79-b77e-ee20f72bddc0"
  }
}
```

## 5. Developer Resources

### SDK

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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.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.InvalidScheduledActionNameIncludeIllegalChar	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

Last updated : 2024-10-25 15:16:35

### 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ModifyScalingPolicy.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingPolicyId	Yes	String	Alarm policy ID.
ScalingPolicyName	No	String	Alarm policy name.
AdjustmentType	No	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:

			<ul style="list-style-type: none"> <li><code>CHANGE_IN_CAPACITY</code> : Increase or decrease the desired capacity</li> <li><code>EXACT_CAPACITY</code> : Adjust to the specified desired capacity</li> <li><code>PERCENT_CHANGE_IN_CAPACITY</code> : Adjust the desired capacity by percentage</li> </ul>
AdjustmentValue	No	Integer	<p>The adjustment value for the expected number of instances after an alarm is triggered. It applies only to simple policies.</p> <ul style="list-style-type: none"> <li>When AdjustmentType is <code>CHANGE_IN_CAPACITY</code>, a positive AdjustmentValue indicates an increase in the number of instances after the alarm is triggered, and a negative AdjustmentValue indicates a decrease in the number of instances after the alarm is triggered.</li> <li>When AdjustmentType is <code>EXACT_CAPACITY</code>, the value of AdjustmentValue represents the expected number of instances after the alarm is triggered, which should be greater than or equal to 0.</li> <li>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, and a negative AdjustmentValue indicates a decrease in the number of instances by percentage after the alarm is triggered. The unit is: %.</li> </ul>
Cooldown	No	Integer	Cooldown period (in seconds). It's only available when <code>ScalingPolicyType</code> is <code>Simple</code> .
MetricAlarm	No	<a href="#">MetricAlarm</a>	Alarm monitoring metric. It's only available when <code>ScalingPolicyType</code> is <code>Simple</code> .
PredefinedMetricType	No	String	<p>Preset monitoring item. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code>. Valid values:</p> <ul style="list-style-type: none"> <li><code>ASG_AVG_CPU_UTILIZATION</code>: Average CPU utilization</li> <li><code>ASG_AVG_LAN_TRAFFIC_OUT</code>: Average private bandwidth out</li> <li><code>ASG_AVG_LAN_TRAFFIC_IN</code>: Average private bandwidth in</li> </ul>

			<ul style="list-style-type: none"> <li>ASG_AVG_WAN_TRAFFIC_OUT: Average public bandwidth out</li> <li>ASG_AVG_WAN_TRAFFIC_IN: Average public bandwidth in</li> </ul>
TargetValue	No	Integer	<p>Target value. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code>. Value ranges:</p> <ul style="list-style-type: none"> <li>ASG_AVG_CPU_UTILIZATION (in %): [1, 100)</li> <li>ASG_AVG_LAN_TRAFFIC_OUT (in Mbps): &gt;0</li> <li>ASG_AVG_LAN_TRAFFIC_IN (in Mbps): &gt;0</li> <li>ASG_AVG_WAN_TRAFFIC_OUT (in Mbps): &gt;0</li> <li>ASG_AVG_WAN_TRAFFIC_IN (in Mbps): &gt;0</li> </ul>
EstimatedInstanceWarmup	No	Integer	<p>Instance warm-up period (in seconds). It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code>. Value range: 0-3600.</p>
DisableScaleIn	No	Boolean	<p>Whether to disable scale-in. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code>. Valid values:</p> <ul style="list-style-type: none"> <li><code>true</code>: Scaling in is not allowed.</li> <li><code>false</code>: Allows both scale-out and scale-in</li> </ul>
NotificationUserGroupIds.N	No	Array of String	<p>This parameter is diused. Please use <a href="#">CreateNotificationConfiguration</a> instead. Notification group ID, which is the set of user group IDs.</p>

### 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.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"
  },
  "NotificationUserGroupIds": [
    "1678"
  ],
  "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.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyScalingPolicy
<Common request parameters>

{
  "AutoScalingPolicyId": "asp-9uroe7ta",
  "ScalingPolicyName": "target-tracking-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

Last updated : 2024-10-25 15:16:36

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ExecuteScalingPolicy.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingPolicyId	Yes	String	Auto-scaling policy ID. This parameter is not available to a target tracking policy.
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 CLOUD_MONITOR 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.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 .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.
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

Last updated : 2024-10-25 15:16:37

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeScalingPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> 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 of <a href="#">Filter</a>	Filters. <ul style="list-style-type: none"><li><code>auto-scaling-policy-id</code> - String - Optional - Filter by the alarm policy ID.</li></ul>

			<ul style="list-style-type: none"> <li><code>auto-scaling-group-id</code> - String - Optional - Filter by the scaling group ID.</li> <li><code>scaling-policy-name</code> - String - Optional - Filter by the alarm policy name.</li> <li><code>scaling-policy-type</code> - String - Optional - Filter by the alarm policy type. Valid values: <code>SIMPLE</code> , <code>TARGET_TRACKING</code> .</li> </ul> <p>The maximum number of <code>Filters</code> per request is 10. The upper limit for <code>Filter.Values</code> is 5. You cannot specify <code>AutoScalingPolicyIds</code> and <code>Filters</code> at the same time.</p>
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 <a href="#">overview</a> .
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API <a href="#">overview</a> .

### 3. Output Parameters

Parameter Name	Type	Description
ScalingPolicySet	Array of <a href="#">ScalingPolicy</a>	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.

### 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.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 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.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

Last updated : 2024-10-25 15:16:38

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DeleteScalingPolicy.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingPolicyId	Yes	String	ID of the alarm policy to be deleted.

## 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.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
InternalError.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

Last updated : 2024-10-25 15:16:39

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: CreateScalingPolicy.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see <a href="#">regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group ID.
ScalingPolicyName	Yes	String	Alarm trigger policy name.
ScalingPolicyType	No	String	Scaling policy type. Valid values: <ul style="list-style-type: none"><li><code>SIMPLE</code> (default): A simple policy</li><li><code>TARGET_TRACKING</code> : A target tracking policy</li><li>.</li></ul>
AdjustmentType	No	String	The method to adjust the desired capacity after the a triggered. It's only available when <code>ScalingPolicy</code>

			<p>Simple . Valid values:</p> <ul style="list-style-type: none"> <li>CHANGE_IN_CAPACITY : Increase or decrease desired capacity</li> <li>EXACT_CAPACITY : Adjust to the specified des capacity</li> <li>PERCENT_CHANGE_IN_CAPACITY : Adjust the capacity by percentage</li> </ul>
AdjustmentValue	No	Integer	<p>Specifies how to adjust the number of desired capaci the alarm is triggered. It's only available when ScalingPolicyType is Simple . Values:</p> <ul style="list-style-type: none"> <li>AdjustmentType = CHANGE_IN_CAPACITY : Number of instances to add (positive number) or rem (negative number).</li> <li>AdjustmentType = EXACT_CAPACITY : Se desired capacity to the specified number. It must be <math>\geq</math></li> <li>AdjustmentType = PERCENT_CHANGE_IN_CA : Percentage of instance number. Add instances (posit or remove instances (negative value) accordingly.</li> </ul>
Cooldown	No	Integer	<p>Cooldown period (in seconds). This parameter is only applicable to a simple policy. Default value: 300.</p>
MetricAlarm	No	<a href="#">MetricAlarm</a>	<p>Alarm monitoring metric. It's only available when ScalingPolicyType is Simple .</p>
PredefinedMetricType	No	String	<p>Preset monitoring item. It's only available when ScalingPolicyType is TARGET_TRACKING values:</p> <ul style="list-style-type: none"> <li>ASG_AVG_CPU_UTILIZATION: Average CPU ut</li> <li>ASG_AVG_LAN_TRAFFIC_OUT: Average privat bandwidth out</li> <li>ASG_AVG_LAN_TRAFFIC_IN: Average private k in</li> <li>ASG_AVG_WAN_TRAFFIC_OUT: Average publi bandwidth out</li> <li>ASG_AVG_WAN_TRAFFIC_IN: Average public k in</li> </ul>
TargetValue	No	Integer	<p>Target value. It's only available when ScalingPolicyType is TARGET_TRACKING ranges:</p> <ul style="list-style-type: none"> <li>ASG_AVG_CPU_UTILIZATION (in %): [1, 100]</li> <li>ASG_AVG_LAN_TRAFFIC_OUT (in Mbps): &gt;0</li> <li>ASG_AVG_LAN_TRAFFIC_IN (in Mbps): &gt;0</li> </ul>



			<ul style="list-style-type: none"> <li><code>ASG_AVG_WAN_TRAFFIC_OUT</code> (in Mbps): &gt;0</li> <li><code>ASG_AVG_WAN_TRAFFIC_IN</code> (in Mbps): &gt;0</li> </ul>
<code>EstimatedInstanceWarmup</code>	No	Integer	Instance warm-up period (in seconds). It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code> . range: 0-3600. Default value: 300.
<code>DisableScaleIn</code>	No	Boolean	Whether to disable scale-in. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code> . values: <ul style="list-style-type: none"> <li><code>true</code> : Do not scale in</li> <li><code>false</code> (default): Both scale-out and scale-in can be triggered.</li> </ul>
<code>NotificationUserGroupIds.N</code>	No	Array of String	This parameter is deprecated. Please use <a href="#">CreateNotificationConfiguration</a> instead. Notification group ID, which is the set of user group IDs.

### 3. Output Parameters

Parameter Name	Type	Description
<code>AutoScalingPolicyId</code>	String	Alarm trigger policy ID.
<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 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.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"
  },
  "NotificationUserGroupIds": [
    "1678"
  ],
  "AdjustmentValue": "1"
}
```

### Output Example

```
{
  "Response": {
    "AutoScalingPolicyId": "asp-iir70sxxv",
    "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.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"
},
"NotificationUserGroupIds": [
  "1678"
],
"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.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

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.CallMonitorError	Monitor API call failed.
InternalError.CallNotificationError	The notification service API call failed.
InternalError.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

Last updated : 2024-10-25 15:16:16

### 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ModifyNotificationConfiguration.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingNotificationId	Yes	String	ID of the notification to be modified.
NotificationTypes.N	No	Array of String	Notification type, i.e., the set of types of notifications to be subscribed to. Value range: <ul style="list-style-type: none"><li>SCALE_OUT_SUCCESSFUL: scale-out succeeded</li></ul>

			<ul style="list-style-type: none"> <li>SCALE_OUT_FAILED: scale-out failed</li> <li>SCALE_IN_SUCCESSFUL: scale-in succeeded</li> <li>SCALE_IN_FAILED: scale-in failed</li> <li>REPLACE_UNHEALTHY_INSTANCE_SUCCESSFUL: unhealthy instance replacement succeeded</li> <li>REPLACE_UNHEALTHY_INSTANCE_FAILED: unhealthy instance replacement failed</li> </ul>
NotificationUserGroupIds.N	No	Array of String	Notification group ID, which is the set of user group IDs. You can query the user group IDs through the <a href="#">ListGroups</a> API.
QueueName	No	String	CMQ or TDMQ CMQ queue name.
TopicName	No	String	CMQ or TDMQ CMQ topic name.

### 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.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

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.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

Last updated : 2024-10-25 15:16:17

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeNotificationConfigurations.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingNotificationIds.N	No	Array of String	Queries by one or more notification IDs in the format of asn-2sestqbr. The maximum number of instances per request is 100. This parameter does not support

			specifying both <code>AutoScalingNotificationIds</code> and <code>Filters</code> at the same time.
Filters.N	No	Array of <a href="#">Filter</a>	<p>Filter.</p> <ul style="list-style-type: none"> <li>auto-scaling-notification-id - String - Required: No - (Filter) Filter by notification ID.</li> <li>auto-scaling-group-id - String - Required: No - (Filter) Filter by auto scaling group ID.</li> </ul> <p>The maximum number of <code>Filters</code> per request is 10. The upper limit for <code>Filter.Values</code> is 5. This parameter does not support specifying both <code>AutoScalingNotificationIds</code> and <code>Filters</code> at the same time.</p>
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 <a href="#">API overview</a> .
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the <a href="#">API overview</a> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible notifications.
AutoScalingNotificationSet	Array of <a href="#">AutoScalingNotification</a>	List of AS event notification 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 notifications

## Input Example

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

{
  "AutoScalingNotificationIds": [
    "asn-9bhvwvxqh"
  ]
}
```

## Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "AutoScalingNotificationSet": [
      {
        "TargetType": "USER_GROUP",
        "TopicName": "topicname",
        "QueueName": "queuename",
        "AutoScalingGroupId": "asg-2umy3jbd",
        "NotificationUserGroupIds": [
          "1678"
        ],
        "NotificationTypes": [
          "SCALE_OUT_SUCCESSFUL"
        ],
        "AutoScalingNotificationId": "asn-9bhvwvxqh"
      }
    ],
    "RequestId": "0539a5fc-14b8-4591-9fe2-faee32031a64"
  }
}
```

# 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.
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

Last updated : 2024-10-25 15:16:18

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DeleteNotificationConfiguration.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingNotificationId	No	String	ID of the notification to be deleted.

## 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.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

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.InvalidAutoScalingNotificationId	Invalid notification ID.
ResourceNotFound.AutoScalingNotificationNotFound	The notification does not exist.



# CreateNotificationConfiguration

Last updated : 2024-10-25 15:16:19

## 1. API Description

Domain name for API request: as.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 scali
ng 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-4t5mgeu
u`, `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	<a href="#">Common Params</a> . The value used for this API: CreateNotificationConfiguration.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group ID.
NotificationTypes.N	Yes	Array of String	Notification type, i.e., the set of types of notifications to be subscribed to. Value range: <ul style="list-style-type: none"> <li>SCALE_OUT_SUCCESSFUL: scale-out succeeded</li> <li>SCALE_OUT_FAILED: scale-out failed</li> <li>SCALE_IN_SUCCESSFUL: scale-in succeeded</li> <li>SCALE_IN_FAILED: scale-in failed</li> <li>REPLACE_UNHEALTHY_INSTANCE_SUCCESSFUL: unhealthy instance replacement succeeded</li> <li>REPLACE_UNHEALTHY_INSTANCE_FAILED: unhealthy instance replacement failed</li> </ul>
NotificationUserGroupIds.N	No	Array of String	Notification group ID, which is the set of user group IDs. You can query the user group IDs through the <a href="#">ListGroups</a> API.
TargetType	No	String	Notification receiver type. Valid values: <ul style="list-style-type: none"> <li>USER_GROUP:User group</li> <li>CMQ_QUEUE:CMQ queue</li> </ul>

			<ul style="list-style-type: none"> <li>CMQ_TOPIC:CMQ topic</li> <li>TDMQ_CMQ_TOPIC:TDMQ CMQ topic</li> <li>TDMQ_CMQ_QUEUE:TDMQ CMQ queue</li> </ul> <p>Default value: <code>USER_GROUP</code> .</p>
QueueName	No	String	CMQ queue name. This parameter is required when <code>TargetType</code> is <code>CMQ_QUEUE</code> or <code>TDMQ_CMQ_QUEUE</code> .
TopicName	No	String	CMQ topic name. This parameter is required when <code>TargetType</code> is <code>CMQ_TOPIC</code> or <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.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.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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- [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
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

Last updated : 2024-10-25 15:16:20

### 1. API Description

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

This API (`UpgradeLifecycleHook`) is used to upgrade a lifecycle hook.

- This API is used to upgrade a lifecycle hook in a "completely overriding" manner, i.e., it uniformly sets a new configuration according to the API parameters regardless of the original parameters. If optional fields are left empty, their 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	<a href="#">Common Params</a> . The value used for this API: <code>UpgradeLifecycleHook</code> .
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: <code>2018-04-19</code> .
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
LifecycleHookId	Yes	String	Lifecycle hook ID

LifecycleHookName	Yes	String	Lifecycle hook name
LifecycleTransition	Yes	String	Scenario for the lifecycle hook. Value range: "INSTANCE_LAUNCHING", "INSTANCE_TERMINATING"
DefaultResult	No	String	Defines the action to be taken by the auto scaling group upon lifecycle hook timeout. Value range: "CONTINUE", "ABANDON". Default value: "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: "").
NotificationTarget	No	<a href="#">NotificationTarget</a>	Notification result. <code>NotificationTarget</code> and <code>LifecycleCommand</code> cannot be specified at the same time.
LifecycleTransitionType	No	String	The scenario where the lifecycle hook is applied. <code>EXTENSION</code> : the lifecycle hook will be triggered when AttachInstances, DetachInstances or RemoveInstances is called. <code>NORMAL</code> : the lifecycle hook is not triggered by the above APIs.
LifecycleCommand	No	<a href="#">LifecycleCommand</a>	Remote command execution object. <code>NotificationTarget</code> and <code>LifecycleCommand</code> 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 Upgrading a lifecycle hook

#### Input Example

```
POST / HTTP/1.1
Host: as.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

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.
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

Last updated : 2024-10-25 15:16:21

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeLifecycleHooks.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
LifecycleHookIds.N	No	Array of String	Queries by one or more lifecycle hook IDs in the format of <code>ash-8azjzxc1</code> . The maximum quantity per request is 100. This parameter does not support specifying both <code>LifecycleHookIds</code> and <code>Filters</code> at the same time.

Filters.N	No	Array of <a href="#">Filter</a>	<p>Filters.</p> <ul style="list-style-type: none"> <li><code>lifecycle-hook-id</code> - String - Required: No - (Filter) Filter by lifecycle hook ID.</li> <li><code>lifecycle-hook-name</code> - String - Required: No - (Filter) Filter by lifecycle hook name.</li> <li><code>auto-scaling-group-id</code> - String - Required: No - (Filter) Filter by scaling group ID.</li> </ul> <p>Up to 10 filters can be included in a request and up to 5 values for each filter. It cannot be specified with <code>LifecycleHookIds</code> at the same time.</p>
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 <a href="#">overview</a> .
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , see the relevant section in the API <a href="#">overview</a> .

### 3. Output Parameters

Parameter Name	Type	Description
LifecycleHookSet	Array of <a href="#">LifecycleHook</a>	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.tencentcloudapi.com
Content-Type: application/json
```

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

{}
```

## Output Example

```
{
  "Response": {
    "TotalCount": 4,
    "LifecycleHookSet": [
      {
        "LifecycleHookName": "terminate-topic",
        "LifecycleTransitionType": "NORMAL",
        "AutoScalingGroupId": "asg-8fbozqja",
        "HeartbeatTimeout": 120,
        "NotificationMetadata": "topic",
        "NotificationTarget": {
          "TargetType": "TDMQ_TOPIC",
          "TopicName": "one-topic",
          "QueueName": ""
        },
        "LifecycleCommand": {
          "CommandId": "",
          "Parameters": ""
        },
        "CreatedTime": "2019-04-19T02:59:30Z",
        "DefaultResult": "ABANDON",
        "LifecycleHookId": "ash-oq76wsrx",
        "LifecycleTransition": "INSTANCE_TERMINATING"
      },
      {
        "LifecycleHookName": "launch-queue",
        "LifecycleTransitionType": "NORMAL",
        "AutoScalingGroupId": "asg-8fbozqja",
        "HeartbeatTimeout": 120,
        "NotificationMetadata": "queue",
        "NotificationTarget": {
          "TargetType": "TDMQ_QUEUE",
          "TopicName": "",
          "QueueName": "one-queue"
        },
        "LifecycleCommand": {
          "CommandId": "",
          "Parameters": ""
        }
      }
    ]
  }
}
```

```
"CreatedTime": "2019-04-19T02:57:14Z",
"DefaultResult": "CONTINUE",
"LifecycleHookId": "ash-fbjiexz7",
"LifecycleTransition": "INSTANCE_LAUNCHING"
},
{
"LifecycleHookName": "one-hook",
"LifecycleTransitionType": "NORMAL",
"AutoScalingGroupId": "asg-8fbozqja",
"HeartbeatTimeout": 360,
"NotificationMetadata": "",
"NotificationTarget": {
"TargetType": "",
"TopicName": "",
"QueueName": ""
},
"CreatedTime": "2019-04-19T02:56:02Z",
"DefaultResult": "CONTINUE",
"LifecycleHookId": "ash-heyubibl",
"LifecycleTransition": "INSTANCE_LAUNCHING"
},
{
"LifecycleHookName": "one-hook-default",
"LifecycleTransitionType": "NORMAL",
"AutoScalingGroupId": "asg-8fbozqja",
"HeartbeatTimeout": 300,
"NotificationMetadata": "",
"NotificationTarget": {
"TargetType": "",
"TopicName": "",
"QueueName": ""
},
"LifecycleCommand": {
"CommandId": "",
"Parameters": ""
},
"CreatedTime": "2019-04-19T02:51:24Z",
"DefaultResult": "CONTINUE",
"LifecycleHookId": "ash-8azjxj9",
"LifecycleTransition": "INSTANCE_LAUNCHING"
}
],
"RequestId": "dff07f6e-bdbc-4532-baeb-e7fb3aebe248"
}
```

## Example2 Using Filter to query lifecycle hooks

### Input Example

```
POST / HTTP/1.1
Host: as.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",
        "ash-oq76wsrx"
      ],
      "Name": "lifecycle-hook-id"
    }
  ]
}
```

### Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "LifecycleHookSet": [
      {
        "LifecycleHookName": "terminate-topic",
        "LifecycleTransitionType": "NORMAL",
        "AutoScalingGroupId": "asg-8fbozqja",
        "HeartbeatTimeout": 120,
        "NotificationMetadata": "topic",
        "NotificationTarget": {
          "TargetType": "TDMQ_TOPIC",
          "TopicName": "one-topic",
          "QueueName": ""
        },
        "CreatedTime": "2019-04-19T02:59:30Z",

```



```
"DefaultResult": "ABANDON",
"LifecycleHookId": "ash-oq76wsrx",
"LifecycleTransition": "INSTANCE_TERMINATING"
},
{
  "LifecycleHookName": "launch-queue",
  "LifecycleTransitionType": "NORMAL",
  "AutoScalingGroupId": "asg-8fbozqja",
  "HeartbeatTimeout": 120,
  "NotificationMetadata": "queue",
  "NotificationTarget": {
    "TargetType": "TDMQ_QUEUE",
    "TopicName": "",
    "QueueName": "one-queue"
  },
  "LifecycleCommand": {
    "CommandId": "",
    "Parameters": ""
  },
  "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
InternalError	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

Last updated : 2024-10-25 15:16:22

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DeleteLifecycleHook.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
LifecycleHookId	Yes	String	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.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
InternalError	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

Last updated : 2024-10-25 15:16:23

## 1. API Description

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

This API is used to create a lifecycle hook.

- You can configure notifications or automation commands (TAT) for the lifecycle hook.

If you configured a notification, Auto Scaling will notify the TDMQ queue of the following information:

```
{
  "Service": "Tencent Cloud Auto Scaling",
  "Time": "2019-03-14T10:15:11Z",
  "AppId": "1251783334",
  "ActivityId": "asa-fznnvrja",
  "AutoScalingGroupId": "asg-rrrrtttt",
  "LifecycleHookId": "ash-xxxxyyyy",
  "LifecycleHookName": "my-hook",
  "LifecycleActionToken": "3080e1c9-0efe-4dd7-ad3b-90cd6618298f",
  "InstanceId": "ins-aaaabbbb",
  "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	<a href="#">Common Params</a> . The value used for this API: CreateLifecycleHook.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Auto scaling group ID
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 the lifecycle hook. Valid values: "INSTANCE_LAUNCHING" and "INSTANCE_TERMINATING"
DefaultResult	No	String	Defined actions when lifecycle hook times out. Valid values: "CONTINUE" and "ABANDON". Default value: "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: ""). Up to 1024 characters are allowed.
NotificationTarget	No	<a href="#">NotificationTarget</a>	Notification target. <code>NotificationTarget</code> and <code>LifecycleCommand</code> cannot be specified at the same time.
LifecycleTransitionType	No	String	The scenario where the lifecycle hook is applied. <code>EXTENSION</code> : the lifecycle hook will be triggered when AttachInstances, DetachInstances or RemoveInstances is called. <code>NORMAL</code> : the lifecycle hook is not triggered by the above APIs.
LifecycleCommand	No	<a href="#">LifecycleCommand</a>	Remote command execution object. <code>NotificationTarget</code> and

LifecycleCommand cannot be specified at the same time.

### 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.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.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.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.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 upon 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.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.

- [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.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

Last updated : 2024-10-25 15:16:24

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: CompleteLifecycleAction.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
LifecycleHookId	Yes	String	Lifecycle hook ID
LifecycleActionResult	Yes	String	Result of the lifecycle action. Value range: "CONTINUE", "ABANDON"
InstanceId	No	String	Instance ID. Either "InstanceId" or "LifecycleActionToken" must be specified

LifecycleActionToken	No	String	Either "InstanceId" or "LifecycleActionToken" must be specified
----------------------	----	--------	---

### 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 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.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.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

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	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

Last updated : 2024-10-25 15:16:57

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: ModifyLifecycleHook.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
LifecycleHookId	Yes	String	Lifecycle hook ID.
LifecycleHookName	No	String	Lifecycle hook name.
LifecycleTransition	No	String	The time when the lifecycle hook is applied. Valid values: <ul style="list-style-type: none"><li><code>INSTANCE_LAUNCHING</code> : After the instance launch</li></ul>

			<ul style="list-style-type: none"> <li><code>INSTANCE_TERMINATING</code> : Before the instance termination</li> </ul>
DefaultResult	No	String	<p>Actions after the lifecycle hook times out. Valid values:</p> <ul style="list-style-type: none"> <li><code>CONTINUE</code> : Continue the scaling activity after the timeout</li> <li><code>ABANDON</code> : Terminate the scaling activity after the timeout</li> </ul>
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	Additional information sent by AS to the notification target.
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	<a href="#">NotificationTarget</a>	Information of the notification target.
LifecycleCommand	No	<a href="#">LifecycleCommand</a>	Remote command execution object.

### 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.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyLifecycleHook
<Common request parameters>

{
  "LifecycleHookId": "ash-jelesoo9",
  "LifecycleTransition": "INSTANCE_LAUNCHING"
}
```

## Output Example

```
{
  "Response": {
    "RequestId": "4942c041-fc7f-4f50-b489-d01cdeb6638f"
  }
}
```

# 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
InternalError.CallTATErr	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

Last updated : 2024-10-25 15:17:00

### 1. API Description

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

This API is used to pause the ongoing instance refresh activity.

- In the paused status, the scaling group will also be disabled.
- Instances that are currently being updated will not be paused, instances pending updates will have their updates 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	<a href="#">Common Params</a> . The value used for this API: StopInstanceRefresh.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID.
RefreshActivityId	Yes	String	Refresh activity 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 Pausing Instance Refresh Activity

This example shows you how to pause the instance refresh activity asr-juh6ytr for the scaling group asg-h7tgd87d.

#### Input Example

```
POST / HTTP/1.1
Host: as.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StopInstanceRefresh
<Common request parameters>
{
  "AutoScalingGroupId": "asg-h7tgd87d",
  "RefreshActivityId": "img-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](#)
- [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.



# StartInstanceRefresh

Last updated : 2024-10-25 15:17:01

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API:

			StartInstanceRefresh.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID.
RefreshSettings	Yes	<a href="#">RefreshSettings</a>	Refresh settings.
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 Performing Instance Refresh Using the Rolling Update Method

This example shows you how to divide the instances in the scaling group asg-9dn1a5y6 into 3 batches for rolling updates, and there will be an automatic pause between batches.

#### Input Example

```
POST / HTTP/1.1
Host: as.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StartInstanceRefresh
<Common request parameters>
{
  "AutoScalingGroupId": "asg-9dn1a5y6",
```

```
"RefreshMode": "ROLLING_UPDATE",
"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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- [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.
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.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

Last updated : 2024-10-25 15:17:03

## 1. API Description

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

This API is used to generate a new instance refresh activity, which also supports batched refreshing and operations such as pausing, resuming, and canceling. The interface returns the RefreshActivityId for the rollback activity.

- Instances pending refresh in the original activity are updated to a canceled status. Nonexistent instances are disregarded, while instances in all other statuses proceed to enter the rollback process.
- Instances that were being refreshed in the original activity will not be immediately terminated; instead, the rollback activity will be executed after their refresh has been completed.
- Rollback is supported for activities that are in a paused status or those with the most recent successful refresh; it is not supported for activities in other statuses.
- When the original refresh activity involves reinstalling instances, for the ImageId parameter, it will automatically restore to the image ID before the rollback; for parameters such as UserData, EnhancedService, LoginSettings, and HostName, they will still be retrieved from the launch configuration, requiring users to manually modify the launch configuration before initiating the rollback.

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	<a href="#">Common Params</a> . The value used for this API: RollbackInstanceRefresh.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API:

			2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID.
RefreshSettings	Yes	<a href="#">RefreshSettings</a>	Refresh settings.
OriginRefreshActivityId	Yes	String	Original refresh activity ID.
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 Back Instance Refresh Activity Using the Rolling Update Method

This example shows you how to roll back the instance refresh activity asr-i8u7tytd for the scaling group asg-9dn1a5y6.

#### Input Example

```
POST / HTTP/1.1
Host: as.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StartInstanceRefresh
<Common request parameters>
{
  "AutoScalingGroupId": "asg-9dn1a5y6",
  "RefreshMode": "ROLLING_UPDATE",
```

```
"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](#)
- [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.
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

Last updated : 2024-10-25 15:17:04

## 1. API Description

Domain name for API request: as.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 interface is ineffective when the activity is not in a paused status.

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	<a href="#">Common Params</a> . The value used for this API: ResumeInstanceRefresh.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID.
RefreshActivityId	Yes	String	Refresh activity ID.
ResumeMode	No	String	The recovery method for the current batch's failed instances. If there are no failed instances, this parameter becomes invalid. Default value: RETRY. Valid values:

- **RETRY**: Retry refreshing failed instances in the current batch.
- **CONTINUE**: Skip failed instances 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 Instance Refresh Activity

This example shows you how to resume the instance refresh activity asr-juh6ytr in the scaling group asg-h7tgd87d to retry refreshing the failed instances in the current batch.

#### Input Example

```
POST / HTTP/1.1
Host: as.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ResumeInstanceRefresh
<Common request parameters>
{
  "AutoScalingGroupId": "asg-h7tgd87d",
  "RefreshActivityId": "img-juh6ytr",
  "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 .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.

# DescribeRefreshActivities

Last updated : 2024-10-25 15:17:05

## 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeRefreshActivities.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> 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 <a href="#">Filter</a>	Filtering conditions. <ul style="list-style-type: none"><li>• auto-scaling-group-id - String - Required or not: No - (Filtering conditions) Filters by scaling group ID.</li><li>• refresh-activity-status-code - String - Required or not: No - (Filtering conditions) Filters by refresh activity status. (INIT: Initializing.   RUNNING: In progress.   SUCCESSFUL: Activity successful.   FAILED_PAUSE: Failed paused.  </li></ul>

			<p>AUTO_PAUSE: Automatic pause.   MANUAL_PAUSE: Manual pause.   CANCELLED: Activity canceled.   FAILED: Activity failed.)</p> <ul style="list-style-type: none"> <li>refresh-activity-type - String - Required or not: No - (Filtering conditions) Filters by refresh activity type. (NORMAL: Normal refresh activity.   ROLLBACK: Rollback refresh activity.)</li> <li>refresh-activity-id - String - Required or not: No - (Filtering conditions) Filters by refresh activity ID.</li> <li>The maximum limit for Filters per request is 10, and the upper limit for Filter.Values is 5. Parameters do not support specifying both RefreshActivityIds and Filters simultaneously.</li> </ul>
Limit	No	Integer	<p>Number of returned pieces. Default value: 20. Maximum value: 100. For further information on Limit, please refer to relevant sections in API [Overview] (<a href="https://www.tencentcloud.com/document/api/213/15688?from_cn_redirect=1">https://www.tencentcloud.com/document/api/213/15688?from_cn_redirect=1</a>).</p>
Offset	No	Integer	<p>Offset, 0 by default. For further information on Offset, please refer to relevant sections in API [Overview] (<a href="https://www.tencentcloud.com/document/api/213/15688?from_cn_redirect=1">https://www.tencentcloud.com/document/api/213/15688?from_cn_redirect=1</a>).</p>

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of refresh activities that meet the conditions.
RefreshActivitySet	Array of <a href="#">RefreshActivity</a>	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.

### 4. Example

#### Example1 Viewing List of Refresh Activities 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.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-w188n531",
                "InstanceStatusMessage": "success",
                "LastActivityId": "asa-pb2y1bna",
                "InstanceStatus": "SUCCESSFUL"
              }
            ],
            "StartTime": "2023-09-07T16:31:44Z",
            "RefreshBatchStatus": "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": "",
"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
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.LimitExceeded	The value exceeds the limit.
LimitExceeded.FilterValuesTooLong	Too many values for the specified filter

# CancelInstanceRefresh

Last updated : 2024-10-25 15:17:06

## 1. API Description

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

This API is used to cancel the instance refresh activity of the scaling group.

- Batches that have already been refreshed or are currently being refreshed remain unaffected; batches pending refresh will be canceled.
- If a refresh fails, the affected instances will remain in the standby status and require manual intervention by the user to either attempt to exit the standby status or destroy the instances.
- Rollback operations are not allowed after cancellation, and resuming is also unsupported.

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	<a href="#">Common Params</a> . The value used for this API: CancelInstanceRefresh.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> supported by the product.
AutoScalingGroupId	Yes	String	Scaling group ID.
RefreshActivityId	Yes	String	Refresh activity 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 Canceling the Instance Refresh Activity

This example shows you how to cancel the instance refresh activity asr-juh6ytr in scaling group asg-h7tgd87d.

#### Input Example

```
POST / HTTP/1.1
Host: as.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CancelInstanceRefresh
<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](#)
- [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

Last updated : 2024-10-25 15:16:15

### 1. API Description

Domain name for API request: as.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	<a href="#">Common Params</a> . The value used for this API: DescribeAccountLimits.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2018-04-19.
Region	Yes	String	<a href="#">Common Params</a> . For more information, please see the <a href="#">list of regions</a> 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.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

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.

# Data Types

Last updated : 2024-10-25 15:16:40

## Activity

Information on eligible scaling activities.

Used by actions: DescribeAutoScalingActivities, DescribeAutoScalingGroupLastActivities.

Name	Type	Description
AutoScalingGroupId	String	Auto scaling group ID.
ActivityId	String	Scaling activity ID.
ActivityType	String	<p>Type of the scaling activity. Valid values:</p> <ul style="list-style-type: none"> <li><code>SCALE_OUT</code> : Scale out.</li> <li><code>SCALE_IN</code> : Scale in.</li> <li><code>ATTACH_INSTANCES</code> : Add instances.</li> <li><code>REMOVE_INSTANCES</code> : Terminate instances.</li> <li><code>DETACH_INSTANCES</code> : Remove instances.</li> <li><code>TERMINATE_INSTANCES_UNEXPECTEDLY</code> : Terminate instances in the CVM console.</li> <li><code>REPLACE_UNHEALTHY_INSTANCE</code> : Replace an unhealthy instance.</li> <li><code>START_INSTANCES</code> : Starts up instances.</li> <li><code>STOP_INSTANCES</code> : Shut down instances.</li> <li><code>INVOKE_COMMAND</code> : Execute commands</li> </ul>
StatusCode	String	<p>Scaling activity status. Value range:</p> <ul style="list-style-type: none"> <li>INIT: initializing</li> <li>RUNNING: running</li> <li>SUCCESSFUL: succeeded</li> <li>PARTIALLY_SUCCESSFUL: partially succeeded</li> <li>FAILED: failed</li> <li>CANCELLED: canceled</li> </ul>
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 scaling activity.
EndTime	Timestamp ISO8601	End time of the scaling activity.
CreatedTime	Timestamp ISO8601	Creation time of the scaling activity.
StatusMessageSimplified	String	Brief description of the scaling activity status.
LifecycleActionResultSet	Array of <a href="#">LifecycleActionResultInfo</a>	Result of the lifecycle hook action in the scaling activity
DetailedStatusMessageSet	Array of <a href="#">DetailedStatusMessage</a>	Detailed description of scaling activity status
InvocationResultSet	Array of <a href="#">InvocationResult</a>	Result of the command execution
RelatedInstanceSet	Array of <a href="#">RelatedInstance</a>	Information set of the instances related to 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	Risk level of the scaling group configuration. Valid values: <ul style="list-style-type: none"> <li>WARNING</li> <li>CRITICAL</li> </ul>

## 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: <ul style="list-style-type: none"> <li>NORMAL: Normal</li> <li>WARNING: Warning</li> <li>CRITICAL: Serious warning</li> </ul>
Advices	Array of <a href="#">Advice</a>	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 scaling group status. Valid values: <ul style="list-style-type: none"> <li>NORMAL: Normal</li> <li>CVM_ABNORMAL: Abnormal launch configuration</li> <li>LB_ABNORMAL: Abnormal load balancer</li> <li>LB_LISTENER_ABNORMAL: Abnormal load balancer listener</li> <li>LB_LOCATION_ABNORMAL: Abnormal forwarding configuration of t</li> </ul>

		<p>load balancer listener</p> <ul style="list-style-type: none"> <li>• VPC_ABNORMAL: VPC network exception</li> <li>• SUBNET_ABNORMAL: VPC subnet exception</li> <li>• INSUFFICIENT_BALANCE: Insufficient account balance</li> <li>• LB_BACKEND_REGION_NOT_MATCH: The CLB backend and the AS service are not in the same region.</li> <li>• LB_BACKEND_VPC_NOT_MATCH: The CLB instance and the scaling group are not in the same VPC.</li> </ul>
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 <a href="#">ForwardLoadBalancer</a>	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	Termination policy
VpcId	String	VPC ID
ZoneSet	Array of String	List of availability zones
RetryPolicy	String	Retry policy
InActivityStatus	String	Whether the auto scaling group is performing a scaling activity. <code>IN_ACTIVITY</code> indicates yes, and <code>NOT_IN_ACTIVITY</code> indicates no.
Tags	Array of <a href="#">Tag</a>	List of auto scaling group tags
ServiceSettings	<a href="#">ServiceSettings</a>	Service settings
Ipv6AddressCount	Integer	The number of IPv6 addresses that an instance has.
MultiZoneSubnetPolicy	String	The policy applied when there are multiple availability zones/subnets <ul style="list-style-type: none"> <li><b>PRIORITY:</b> when creating instance choose the availability zone/subnet based on the order in the list from top to bottom. If the first instance is successfully created in the availability zone/subnet of the highest priority, all instances will be created in this availability zone/subnet.</li> <li><b>EQUALITY:</b> chooses the availability zone/subnet with the least instances for scale-out. This gives each availability zone/subnet an opportunity for scale-out and disperses the instances created during multiple scale-out operations across different availability zones/subnets.</li> </ul>
HealthCheckType	String	Health check type of instances in a scaling group. <ul style="list-style-type: none"> <li><b>CVM:</b> confirm whether an instance is healthy based on the network status. If the pinged instance is unreachable, the</li> </ul>

		<p>instance will be considered unhealthy. more information, see <a href="#">Instance Health Check</a></p> <ul style="list-style-type: none"> <li>CLB: confirm whether an instance is healthy based on the CLB health check status. For more information, see <a href="#">Health Check Overview</a>.</li> </ul>
LoadBalancerHealthCheckGracePeriod	Integer	Grace period of the CLB health check
InstanceAllocationPolicy	String	<p>Specifies how to assign instances. Valid values: <code>LAUNCH_CONFIGURATION</code> and <code>SPOT_MIXED</code>.</p> <ul style="list-style-type: none"> <li><code>LAUNCH_CONFIGURATION</code>: the launch configuration mode.</li> <li><code>SPOT_MIXED</code>: a mixed instance mode. Currently, this mode is supported only when the launch configuration takes the pay-as-you-go billing mode. With this mode, the scaling group can provision a combination of pay-as-you-go instances and spot instances to meet the configured capacity. Note that the billing mode of the associated launch configuration cannot be modified when this mode is used.</li> </ul>
SpotMixedAllocationPolicy	<a href="#">SpotMixedAllocationPolicy</a>	<p>Specifies how to assign pay-as-you-go instances and spot instances. A valid value will be returned only when <code>InstanceAllocationPolicy</code> is set to <code>SPOT_MIXED</code>.</p>
CapacityRebalance	Boolean	<p>Indicates whether the capacity rebalancing feature is enabled. This parameter is only valid for spot instances in the scaling group. Valid values:</p> <ul style="list-style-type: none"> <li><code>TRUE</code>: yes. Before the spot instances in the scaling group are about to be automatically repossessed, AS will terminate them. The scale-in hook (if configured) will take effect before the termination. After the termination process starts, AS will asynchronously initiate a</li> </ul>

		<p>scaling activity to meet the desired capacity.</p> <ul style="list-style-type: none"> <li><code>FALSE</code> : no. AS will add instances meet the desired capacity only after the spot instances are terminated.</li> </ul>
InstanceNameIndexSettings	<a href="#">InstanceNameIndexSettings</a>	<p>Instance name sequencing settings. Note: This field may return null, indicating that no valid value can be obtained.</p>

## 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	List of notification events.
AutoScalingNotificationId	String	Event notification ID.
TargetType	String	Notification receiver type.
QueueName	String	CMQ queue name.
TopicName	String	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	<p>Data disk type. For restrictions on data disk type, see <a href="#">Cloud Block Storage Types</a>. Valid values:</p> <ul style="list-style-type: none"> <li>LOCAL_BASIC: Local hard disk.</li> <li>LOCAL_SSD: Local SSD.</li> <li>CLOUD_BASIC: General cloud disk.</li> <li>CLOUD_PREMIUM: Premium cloud disk.</li> <li>CLOUD_SSD: Cloud SSD.</li> <li>CLOUD_HSSD: Enhanced SSD.</li> <li>CLOUD_TSSD: Ultra SSD.</li> </ul> <p>The default value is consistent with the system disk type (SystemDisk.DiskType).</p> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>
DiskSize	Integer	No	<p>Data disk size (in GB). The minimum adjustment increment is 10 GB. The value range varies by data disk type. For more information on limits, see <a href="#">CVM Instance Configuration</a>. The default value is 0, indicating that no data disk is purchased. For more information, see the product documentation.</p> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>
SnapshotId	String	No	<p>Data disk snapshot ID, such as <code>snap-18psqwnt</code>.</p> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>
DeleteWithInstance	Boolean	No	<p>Whether the data disk is terminated along with the instance. Valid values:</p> <ul style="list-style-type: none"> <li>TRUE: When the instance is terminated, the data disk is also terminated. This option is only supported for hourly postpaid cloud disks.</li> </ul>

			<ul style="list-style-type: none"> <li>FALSE: When the instance is terminated, the data disk is retained.</li> </ul> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>
Encrypt	Boolean	No	<p>Whether the data disk is encrypted. Valid values:</p> <ul style="list-style-type: none"> <li>TRUE: Encrypted.</li> <li>FALSE: Not encrypted.</li> </ul> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>
ThroughputPerformance	Integer	No	<p>Cloud disk performance (MB/s). This parameter is used to purchase extra performance for the cloud disk. For details or the feature and limits, see [Enhanced SSD Performance] (<a href="https://www.tencentcloud.com/document/product/362/5189">https://www.tencentcloud.com/document/product/362/5189</a> from_cn_redirect=1#.E5.A2.9E.E5.BC.BA.E5.9E.8B-ssd-.E4.BA.91.E7.A1.AC.E7.9B.98.E9.A2.9D.E5.A4.96.E6.80.A7.E8.83.BD).</p> <p>This feature is only available to enhanced SSD ( <code>CLOUD_HSSD</code> ) and tremendous SSD ( <code>CLOUD_TSSD</code> ) disks with a capacity greater than 460 GB.</p> <p>Note: This field may return <code>null</code> , indicating that no valid value can be obtained.</p>
BurstPerformance	Boolean	No	<p>Burst performance: Whether to enable burst performance. TI default value is false.</p> <p>Note: This feature is in beta test and requires a ticket to be submitted for usage.</p> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>

## DetailedStatusMessage

Detailed description of scaling activity status

Used by actions: DescribeAutoScalingActivities, DescribeAutoScalingGroupLastActivities.

Name	Type	Description
Code	String	Error type



Zone	String	AZ information
InstanceId	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.

Name	Type	Required	Description
SecurityService	<a href="#">RunSecurityServiceEnabled</a>	No	Enables the Cloud Security service. If this parameter is not specified, the Cloud Security service will be enabled by default.
MonitorService	<a href="#">RunMonitorServiceEnabled</a>	No	Enables the Cloud Monitor service. If this parameter is not specified, the Cloud Monitor service will be enabled by default.
AutomationToolsService	<a href="#">RunAutomationServiceEnabled</a>	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	Load balancer ID
ListenerId	String	Yes	Application load balancer listener ID
TargetAttributes	Array of <a href="#">TargetAttribute</a>	Yes	List of target rule attributes
LocationId	String	No	ID of a forwarding rule. This parameter is required for layer-7 listeners.
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	<p>CVM HostName.</p> <ul style="list-style-type: none"> <li>Dots (.) and hyphens (-) cannot be used as the first or last character of HostName, and cannot be used consecutively.</li> <li>Windows instances are not supported.</li> <li>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.</li> </ul> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
HostNameStyle	String	No	<p>The style of the CVM HostName. Valid values include ORIGINAL and UNIQUE, and the default value is ORIGINAL.</p> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>

HostNameSuffix	String	No	<p>HostName suffix for CVM.</p> <ul style="list-style-type: none"> <li>Dots (.) and hyphens (-) cannot be used as the first or last character of HostNameSuffix, and cannot be used consecutively.</li> <li>Windows instances are not supported.</li> <li>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 (-).</li> </ul> <p>Assume the suffix name is suffix and the original HostName is test.0, then the final HostName is test.0.suffix.</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
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## 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	<p>Network billing mode. Valid values: TRAFFIC_POSTPAID_BY_HOUR, BANDWIDTH_PACKAGE. Default value: TRAFFIC_POSTPAID_BY_HOUR. For the current account type, see <a href="#">Account Type Description</a>.</p> <ul style="list-style-type: none"> <li>IPv6 supports <code>TRAFFIC_POSTPAID_BY_HOUR</code> under a bill-by-IP account.</li> <li>IPv6 supports <code>BANDWIDTH_PACKAGE</code> under a bill-by-CVM account.</li> </ul> <p>Note: This field may return <code>null</code>, indicating that no valid values can be obtained.</p>
InternetMaxBandwidthOut	Integer	No	<p>Outbound bandwidth cap of the public network (in Mbps).</p> <p>It defaults to <code>0</code>, which indicates no public network bandwidth is allocated to IPv6. The value range of</p>

			bandwidth caps varies with the model, availability zone and billing mode. For more information, see <a href="#">Public Network Bandwidth Cap</a> . 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 <a href="#">DescribeBandwidthPackages</a> 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	<p>Lifecycle status. Valid values:</p> <ul style="list-style-type: none"> <li><code>IN_SERVICE</code> : The instance is running.</li> <li><code>CREATING</code> : The instance is being created.</li> <li><code>CREATION_FAILED</code> : The instance fails to be created.</li> <li><code>TERMINATING</code> : The instance is being terminated.</li> <li><code>TERMINATION_FAILED</code> : The instance fails to be terminated.</li> <li><code>ATTACHING</code> : The instance is being bound.</li> <li><code>ATTACH_FAILED</code> : The instance fails to be bound.</li> <li><code>DETACHING</code> : The instance is being unbound.</li> <li><code>DETACH_FAILED</code> : The instance fails to be unbound.</li> <li><code>ATTACHING_LB</code> : The LB is being bound.</li> <li><code>DETACHING_LB</code>: The LB is being unbound.</li> <li><code>MODIFYING_LB</code> : The LB is being modified.</li> <li><code>STARTING</code> : The instance is being started up.</li> </ul>

		<ul style="list-style-type: none"> <li><code>START_FAILED</code> : The instance fails to be started up.</li> <li><code>STOPPING</code> : The instance is being shut down.</li> <li><code>STOP_FAILED</code> : The instance fails to be shut down.</li> <li><code>STOPPED</code> : The instance is shut down.</li> <li><code>IN_LAUNCHING_HOOK</code> : The lifecycle hook is being scaled out.</li> <li><code>IN_TERMINATING_HOOK</code> : The lifecycle hook is being scaled in.</li> </ul>
HealthStatus	String	Health status. Value range: HEALTHY, UNHEALTHY
ProtectedFromScaleIn	Boolean	Whether to add scale-in protection
Zone	String	Availability zone
CreationType	String	Creation type. Value range: AUTO_CREATION, MANUAL_ATTACHING.
AddTime	Timestamp ISO8601	Instance addition time
InstanceType	String	Instance type
VersionNumber	Integer	Version number
AutoScalingGroupName	String	Auto scaling group name
WarmupStatus	String	<p>Warming up status. Valid values:</p> <ul style="list-style-type: none"> <li><code>WAITING_ENTER_WARMUP</code> : The instance is waiting to be warmed up.</li> <li><code>NO_NEED_WARMUP</code> : Warming up is not required.</li> <li><code>IN_WARMUP</code> : The instance is being warmed up.</li> <li><code>AFTER_WARMUP</code> : Warming up is completed.</li> </ul>
DisasterRecoverGroupIds	Array of String	<p>Placement group ID. Only one is allowed.</p> <p>Note: This field may return <code>null</code> , indicating that no valid values can be obtained.</p>

## 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	<p>Auto-renewal flag. Valid values:</p> <ul style="list-style-type: none"> <li>NOTIFY_AND_AUTO_RENEW: Notify upon expiration and automatically renew.</li> <li>NOTIFY_AND_MANUAL_RENEW: Notify upon expiration but do not auto-renew.</li> <li>DISABLE_NOTIFY_AND_MANUAL_RENEW: Do not notify and do not auto-renew</li> </ul> <p>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.</p>

## InstanceMarketOptionsRequest

Options related to a CVM bidding request

Used by actions: CreateLaunchConfiguration, DescribeLaunchConfigurations, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
SpotOptions	<a href="#">SpotMarketOptions</a>	Yes	Bidding-related options
MarketType	String	No	<p>Market option type. Currently, this only supports the value "spot"</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>

## 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:

			<ul style="list-style-type: none"> <li>• TRUE: Indicates that instance creation sequencing is enabled.</li> <li>• FALSE: Indicates that instance creation sequencing is disabled.</li> </ul> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>
BeginIndex	Integer	No	<p>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.</p> <ul style="list-style-type: none"> <li>• Upon the first enabling of instance name sequencing: The default value is 0.</li> <li>• 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.</li> </ul> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>

## 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	<p>Type of CVM instance name. Valid values: ORIGINAL and UNIQUE . Default value: ORIGINAL .</p> <p>ORIGINAL : Auto Scaling sends the input parameter InstanceName to the CVM directly. The CVM may append a serial number to the InstanceName . The InstanceName of the instances within the scaling group may conflict.</p> <p>UNIQUE : the input parameter InstanceName is the prefix of an instance name. Auto Scaling and CVM expand it. The InstanceName of an instance in the scaling group is unique.</p>
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
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	<p>Network billing method. Value range:</p> <ul style="list-style-type: none"> <li>BANDWIDTH_PREPAID: Prepaid by bandwidth</li> <li>TRAFFIC_POSTPAID_BY_HOUR: Postpaid by traffic on a per hour basis</li> <li>BANDWIDTH_POSTPAID_BY_HOUR: Postpaid by bandwidth on a per hour basis</li> <li>BANDWIDTH_PACKAGE: BWP user</li> </ul> <p>Default value: TRAFFIC_POSTPAID_BY_HOUR. Note: This field may return null, indicating that no valid values can be obtained.</p>
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 <a href="#">Purchase Network Bandwidth</a> . Note: This field may return null, indicating that no valid values can be obtained.
PublicIpAssigned	Boolean	No	Whether to assign a public IP. Value range: <ul style="list-style-type: none"> <li>TRUE: Assign a public IP</li> <li>FALSE: Do not assign a public IP</li> </ul> If the public network bandwidth is greater than 0 Mbps, you are free to choose whether to enable the public IP (which is enabled by default). If the public network bandwidth is 0 Mbps, no public IP will be allowed to be assigned. 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 <a href="#">DescribeBandwidthPackages</a> API. Note: this field may return null, indicating that no valid value was found.

## InvocationResult

Result of the command execution

Used by actions: [DescribeAutoScalingActivities](#), [DescribeAutoScalingGroupLastActivities](#).

Name	Type	Description
InstanceId	String	Instance ID. Note: This field may return null, indicating that no valid values can be obtained.
InvocationId	String	Execution activity ID. Note: This field may return null, indicating that no valid values can be obtained.
InvocationTaskId	String	Execution task ID. Note: This field may return null, indicating that no valid values can be obtained.
CommandId	String	Command ID. Note: This field may return null, indicating that no valid values can be obtained.
TaskStatus	String	Execution Status

		Note: This field may return null, indicating that no valid values can be obtained.
ErrorMessage	String	Execution exception information Note: This field may return null, indicating that no valid values can be obtained.

## 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	<a href="#">SystemDisk</a>	Information of the instance's syst disk configuration.
DataDisks	Array of <a href="#">DataDisk</a>	Information of the instance's data disk configuration.
LoginSettings	<a href="#">LimitedLoginSettings</a>	Instance login settings.
InternetAccessible	<a href="#">InternetAccessible</a>	Information of the public network bandwidth configuration.
SecurityGroupIds	Array of String	Security group of the instance.
AutoScalingGroupAbstractSet	Array of <a href="#">AutoScalingGroupAbstract</a>	Auto scaling group associated with the launch configuration.
UserData	String	Custom data. Note: This field may return null, indicating that no valid values can be obtained.
CreatedTime	Timestamp ISO8601	Creation time of the launch configuration.
EnhancedService	<a href="#">EnhancedService</a>	Conditions of enhancement servi

		for the instance and their settings
ImageId	String	Image ID.
LaunchConfigurationStatus	String	Current status of the launch configuration. Valid values: <ul style="list-style-type: none"> <li>NORMAL: Normal.</li> <li>IMAGE_ABNORMAL: Image exception in the launch configuration.</li> <li>CBS_SNAP_ABNORMAL: Exception with data disk snapshot in the launch configuration.</li> <li>SECURITY_GROUP_ABNORMAL: Security group exception in the launch configuration.</li> </ul>
InstanceChargeType	String	Instance billing type, with the CV default value processed as POSTPAID_BY_HOUR. <ul style="list-style-type: none"> <li>POSTPAID_BY_HOUR: Hourly postpaid billing.</li> <li>SPOTPAID: Spot billing.</li> </ul>
InstanceMarketOptions	<a href="#">InstanceMarketOptionsRequest</a>	Market options of the instance, such as parameters related to spot instances. This parameter is required for spot instances. Note: This field may return null, indicating that no valid values can be obtained.
InstanceTypes	Array of String	List of instance models.
InstanceTags	Array of <a href="#">InstanceTag</a>	List of instance tags, which will be added to instances created by the scale-out activity. Up to 10 tags allowed.
Tags	Array of <a href="#">Tag</a>	Tag list. Note: This field may return null, indicating that no valid values can be obtained.
VersionNumber	Integer	Version

UpdatedTime	Timestamp ISO8601	Update time
CamRoleName	String	CAM role name. This parameter can be obtained from the <code>roleName</code> field returned by DescribeRoleList API.
LastOperationInstanceTypesCheckPolicy	String	Value of InstanceTypesCheckPolicy upon the last operation.
HostNameSettings	<a href="#">HostNameSettings</a>	CVM hostname settings.
InstanceNameSettings	<a href="#">InstanceNameSettings</a>	Settings of CVM instance names
InstanceChargePrepaid	<a href="#">InstanceChargePrepaid</a>	Details of the monthly subscription including the purchase period, auto-renewal. It is required if the <code>InstanceChargeType</code> is <code>PREPAID</code> .
DiskTypePolicy	String	Cloud disk type selection policy. Valid values: <ul style="list-style-type: none"> <li>ORIGINAL: Use the set cloud disk type.</li> <li>AUTOMATIC: Automatically select available cloud disk types in the current availability zone.</li> </ul>
HpcClusterId	String	HPC ID  Note: This field is default to empty.
IPv6InternetAccessible	<a href="#">IPv6InternetAccessible</a>	IPv6 public network bandwidth configuration.
DisasterRecoverGroupIds	Array of String	Placement group ID, supporting specification of only one.
ImageFamily	String	Image family name. Note: This field may return null, indicating that no valid values can be obtained.

## 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 <a href="#">DescribeInvocations</a> API of TAT.
InvokeCommandResult	String	Result of command invocation, <ul style="list-style-type: none"> <li><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></li> <li><code>FAILED</code> : Failed to invoke the command</li> <li><code>NONE</code></li> </ul>
NotificationResult	String	Notification result, which indicates whether it is successful to notify CMQ/TDMQ. <ul style="list-style-type: none"> <li><code>SUCCESSFUL</code>: It is successful to notify CMQ/TDMQ.</li> <li><code>FAILED</code>: It is failed to notify CMQ/TDMQ.</li> <li><code>NONE</code></li> </ul>
LifecycleActionResult	String	Result of the lifecycle hook action. Values: CONTINUE, ABANDON
ResultReason	String	Reason of the result <ul style="list-style-type: none"> <li><code>HEARTBEAT_TIMEOUT</code> : Heartbeat timed out. The setting of <code>DefaultResult</code> is used.</li> <li><code>NOTIFICATION_FAILURE</code> : Failed to send the notification. The setting of <code>DefaultResult</code> is used.</li> <li><code>CALL_INTERFACE</code> : Calls the <code>CompleteLifecycleAction</code> to set the result</li> <li><code>ANOTHER_ACTION_ABANDON</code>: It has been set to <code>ABANDON</code> by another operation.</li> <li><code>COMMAND_CALL_FAILURE</code>: Failed to call the command. The <code>DefaultResult</code> is applied.</li> <li><code>COMMAND_EXEC_FINISH</code>: Command completed</li> <li><code>COMMAND_CALL_FAILURE</code>: Failed to execute the command. The <code>DefaultResult</code> is applied.</li> <li><code>COMMAND_EXEC_RESULT_CHECK_FAILURE</code>: Failed to check the command result. The <code>DefaultResult</code> is applied.</li> </ul>

## LifecycleCommand

Remote command execution object.

Used by actions: CreateLifecycleHook, DescribeLifecycleHooks, ModifyLifecycleHook, UpgradeLifecycleHook.

Name	Type	Required	Description
CommandId	String	Yes	Remote command ID. It's required to execute a command. Note: This field may return null, indicating that no valid values can be obtained.
Parameters	String	No	Custom parameter. The field type is JSON encoded string. For example, {"varA": "222"}. <code>key</code> is the name of the custom parameter and <code>value</code> is the default value. Both <code>key</code> and <code>value</code> are strings. If this parameter is not specified, the <code>DefaultParameters</code> of <code>Command</code> is used. Up to 20 customer parameters allowed. The parameter name can contain up to 64 characters, including [a-z], [A-Z], [0-9] and [-_]. Note: This field may return null, indicating that no valid values can be obtained.

## 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	Default result of the lifecycle hook
HeartbeatTimeout	Integer	Wait timeout period of the lifecycle hook
LifecycleTransition	String	Applicable scenario of the lifecycle hook
NotificationMetadata	String	Additional information for the notification target

CreatedTime	Timestamp ISO8601	Creation time
NotificationTarget	<a href="#">NotificationTarget</a>	Notification target
LifecycleTransitionType	String	Applicable scenario of the lifecycle hook
LifecycleCommand	<a href="#">LifecycleCommand</a>	Remote command execution object. Note: This field may return null, indicating that no valid values can be obtained.

## LimitedLoginSettings

This describes the configuration and information related to instance login. For security reasons, sensitive information is not described.

Used by actions: DescribeLaunchConfigurations.

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	<p>Instance login password.</p> <ul style="list-style-type: none"> <li>Linux: 8-16 characters. It should contain at least two sets of the following categories: [a-z], [A-Z], [0-9] and [() ~!@#\$%^&amp;*~+=&amp;#124;{}[]:; ', .?/].</li> <li>Windows: 12-16 characters. It should contain at least three sets of the following categories: [a-z], [A-Z], [0-9] and [() ~!@#\$%^&amp;*~+={}[]:; ', .?/].</li> </ul> <p>If this parameter is not specified, a random password is generated and sent to you via the Message Center.</p>
KeyIds	Array of String	No	List of key IDs. After an instance is associated with a key, you can access the instance with the private key in the key pair. You



			can call <code>DescribeKeyPairs</code> to obtain <code>KeyId</code> . Key and password cannot be specified at the same time. Windows instances do not support keys. Currently, you can only specify one key when purchasing an instance.
KeepImageLogin	Boolean	No	Whether to keep the original settings of an image. It cannot be specified together with <code>Password</code> or <code>KeyIds.N</code> . You can specify this parameter as <code>TRUE</code> only when you create an instance using a custom image, a shared image, or an imported image. Valid values: <ul style="list-style-type: none"> <li><code>TRUE</code> : Keep the login settings of the image</li> <li><code>FALSE</code> (Default): Do not keep the login settings of the image</li> </ul>

## MetricAlarm

Alarming metric of AS

Used by actions: `CreateScalingPolicy`, `DescribeScalingPolicies`, `ModifyScalingPolicy`.

Name	Type	Required	Description
ComparisonOperator	String	Yes	Comparison operator. Value range: <ul style="list-style-type: none"> <li><code>GREATER_THAN</code>: greater than</li> <li><code>GREATER_THAN_OR_EQUAL_TO</code>: greater than or equal to</li> <li><code>LESS_THAN</code>: less than</li> <li><code>LESS_THAN_OR_EQUAL_TO</code>: less than or equal to</li> <li><code>EQUAL_TO</code>: equal to</li> <li><code>NOT_EQUAL_TO</code>: not equal to</li> </ul>
MetricName	String	Yes	Metric names, with the following optional fields: <ul style="list-style-type: none"> <li><code>CPU_UTILIZATION</code>: CPU utilization.</li> <li><code>MEM_UTILIZATION</code>: Memory utilization.</li> <li><code>LAN_TRAFFIC_OUT</code>: Private network outbound bandwidth.</li> <li><code>LAN_TRAFFIC_IN</code>: Private network inbound bandwidth.</li> <li><code>WAN_TRAFFIC_OUT</code>: Public network outbound bandwidth.</li> <li><code>WAN_TRAFFIC_IN</code>: Public network inbound bandwidth.</li> <li><code>TCP_CURR_ESTAB</code>: TCP connections.</li> </ul>
Threshold	Integer	Yes	Alarm threshold values: <ul style="list-style-type: none"> <li><code>CPU_UTILIZATION</code>: [1, 100], Unit: %.</li> </ul>

			<ul style="list-style-type: none"> <li>MEM_UTILIZATION: [1, 100], Unit: %.</li> <li>LAN_TRAFFIC_OUT: &gt;0, Unit: Mbps.</li> <li>LAN_TRAFFIC_IN: &gt;0, Unit: Mbps.</li> <li>WAN_TRAFFIC_OUT: &gt;0, Unit: Mbps.</li> <li>WAN_TRAFFIC_IN: &gt;0, Unit: Mbps.</li> <li>TCP_CURR_ESTAB: &gt;0, Unit: Count.</li> </ul>
Period	Integer	Yes	Time period in seconds. Enumerated values: 60, 300.
ContinuousTime	Integer	Yes	Number of repetitions. Value range: [1, 10]
Statistic	String	No	<p>Statistics type. Value range:</p> <ul style="list-style-type: none"> <li>AVERAGE: average</li> <li>MAXIMUM: maximum</li> <li>MINIMUM: minimum</li> </ul> <p>Default value: AVERAGE</p>
PreciseThreshold	Float	No	<p>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:</p> <ul style="list-style-type: none"> <li>CPU_UTILIZATION: (0, 100], Unit: %.</li> <li>MEM_UTILIZATION: (0, 100], Unit: %.</li> <li>LAN_TRAFFIC_OUT: &gt;0, Unit: Mbps.</li> <li>LAN_TRAFFIC_IN: &gt;0, Unit: Mbps.</li> <li>WAN_TRAFFIC_OUT: &gt;0, Unit: Mbps.</li> <li>WAN_TRAFFIC_IN: &gt;0, Unit: Mbps.</li> <li>TCP_CURR_ESTAB: &gt;0, Unit: Count.</li> </ul>

## NotificationTarget

Notification target

Used by actions: CreateLifecycleHook, DescribeLifecycleHooks, ModifyLifecycleHook, UpgradeLifecycleHook.

Name	Type	Required	Description
TargetType	String	Yes	<p>Target type. Valid values: <code>CMQ_QUEUE</code> , <code>CMQ_TOPIC</code> , <code>TDMQ_CMQ_QUEUE</code> and <code>TDMQ_CMQ_TOPIC</code> .</p> <ul style="list-style-type: none"> <li>CMQ_QUEUE: Tencent Cloud message queue - queue model.</li> <li>CMQ_TOPIC: Tencent Cloud message queue - topic model.</li> <li>TDMQ_CMQ_QUEUE: Tencent Cloud TDMQ message queue - queue model.</li> </ul>

			<ul style="list-style-type: none"> <li>TDMQ_CMQ_TOPIC: Tencent Cloud TDMQ message queue - topic model.</li> </ul>
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, which exists only in the rollback refresh activity. Note: This field may return null, indicating that no valid value can be obtained.
RefreshBatchSet	Array of <a href="#">RefreshBatch</a>	Refresh batch information list.
RefreshMode	String	Refresh mode.
RefreshSettings	<a href="#">RefreshSettings</a>	Instance update setting parameters.
ActivityType	String	Refresh activity type. Valid values: <ul style="list-style-type: none"> <li>NORMAL: Normal refresh activity.</li> <li>ROLLBACK: Rollback refresh activity.</li> </ul>
Status	String	Refresh activity status. Valid values: <ul style="list-style-type: none"> <li>INIT: Initializing.</li> <li>RUNNING: Running.</li> <li>SUCCESSFUL: Activity successful.</li> <li>FAILED_PAUSE: Paused due to a failed refresh batch.</li> <li>AUTO_PAUSE: Automatically paused according to pause policy.</li> <li>MANUAL_PAUSE: Manually paused.</li> </ul>

		<ul style="list-style-type: none"> <li>• CANCELLED: Activity canceled.</li> <li>• FAILED: Activity failed.</li> </ul>
CurrentRefreshBatchNum	Integer	<p>Current refresh batch number. For example, a value of 2 indicates that the current activity is refreshing the second batch of instances.</p> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>
StartTime	Timestamp ISO8601	<p>Refresh activity start time.</p> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>
EndTime	Timestamp ISO8601	<p>Refresh activity end time.</p> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>
CreatedTime	Timestamp ISO8601	<p>Refresh activity creation time.</p> <p>Note: This field may return null, indicating that no valid value can be obtained.</p>

## 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	<p>Refresh batch status. Valid values:</p> <ul style="list-style-type: none"> <li>• WAITING: Pending refresh.</li> <li>• INIT: Initializing.</li> <li>• RUNNING: Refreshing.</li> <li>• FAILED: Refresh failed.</li> <li>• PARTIALLY_SUCCESSFUL: Partially successful in the batch.</li> <li>• CANCELLED: Canceled.</li> <li>• SUCCESSFUL: Refreshed.</li> </ul>
RefreshBatchRelatedInstanceSet	Array of	List of instances linked to a refresh

	<a href="#">RefreshBatchRelatedInstance</a>	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 an instance is removed or destroyed during the refresh process, its status will be updated to NOT_FOUND. Valid values: <ul style="list-style-type: none"> <li>WAITING: pending refresh.</li> <li>INIT: Initializing.</li> <li>RUNNING: Refreshing in progress.</li> <li>FAILED: Refresh failed.</li> <li>CANCELLED: Canceled.</li> <li>SUCCESSFUL: Refreshed.</li> <li>NOT_FOUND: Instance not found.</li> </ul>
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. Note: This field may return null, indicating that no valid value can be obtained.
InstanceStatusMessage	String	Instance refresh status information. Note: This field may return null, indicating that no valid value can be obtained.

## RefreshSettings

Instance refresh settings.

Used by actions: DescribeRefreshActivities, RollbackInstanceRefresh, StartInstanceRefresh.

Name	Type	Required	Description
RollingUpdateSettings	<a href="#">RollingUpdateSettings</a>	Yes	Rolling update settings parameters. RefreshMode is the rolling update. This parameter must be filled in. Note: This field may return null, indicating that no valid value can be obtained.
CheckInstanceTargetHealth	Boolean	No	Backend service health check status for instances, defaults to FALSE. This setting takes effect only for scaling groups bound with application load balancers. When enabled, if an instance fails the check after being refreshed, its load balancer port weight remains 0 and is marked as a refresh failure. Valid values: <ul style="list-style-type: none"> <li>TRUE: Enable the check.</li> <li>FALSE: Do not enable the check.</li> </ul>

## 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: <ul style="list-style-type: none"> <li>INIT : Initializing</li> <li>RUNNING : Processing the instance</li> <li>SUCCESSFUL : Task succeeded on the instance</li> <li>FAILED : Task failed on the instance</li> </ul>

## 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: <ul style="list-style-type: none"> <li>FIRST_BATCH_PAUSE: Pause after the first batch update completes.</li> <li>BATCH_INTERVAL_PAUSE: Pause between each batch update.</li> <li>AUTOMATIC: No pauses.</li> </ul>

## RunAutomationServiceEnabled

Status of TAT service.

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable <a href="#">TencentCloud Automation Tools</a> . Valid values: <ul style="list-style-type: none"> <li>TRUE : Enable</li> <li>FALSE : Not enable.</li> </ul> Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

## RunMonitorServiceEnabled

This describes the information related to the Cloud Monitor service.

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable the <a href="#">Cloud Monitor</a> service. Value range:

			<ul style="list-style-type: none"> <li>• TRUE: Cloud Monitor is enabled</li> <li>• FALSE: Cloud Monitor is disabled</li> </ul> <p>Default value: TRUE.  </p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
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## RunSecurityServiceEnabled

This describes the information on the Cloud Security service

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
Enabled	Boolean	No	<p>Whether to enable the <a href="#">Cloud Security</a> service. Value range:</p> <ul style="list-style-type: none"> <li>• TRUE: Cloud Security is enabled</li> <li>• FALSE: Cloud Security is disabled</li> </ul> <p>Default value: TRUE.</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>

## ScalingPolicy

Alarm trigger policy.

Used by actions: DescribeScalingPolicies.

Name	Type	Description
AutoScalingGroupId	String	Auto scaling group ID.
AutoScalingPolicyId	String	Alarm trigger policy ID.
ScalingPolicyType	String	<p>Scaling policy type. Valid values:</p> <ul style="list-style-type: none"> <li>- <code>SIMPLE</code> : A simple policy.</li> <li>- <code>TARGET_TRACKING</code> : A target tracking policy.</li> </ul>
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



		<p>Simple . Valid values:</p> <ul style="list-style-type: none"> <li>CHANGE_IN_CAPACITY : Increase or decrease the desired capacity</li> <li>EXACT_CAPACITY : Adjust to the specified desired capacity</li> <li>PERCENT_CHANGE_IN_CAPACITY : Adjust the desired capacity by percentage</li> </ul>
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 period. This parameter is only applicable to a simple policy.
MetricAlarm	<a href="#">MetricAlarm</a>	Alarm monitoring metrics of a simple policy.
PredefinedMetricType	String	<p>Preset monitoring item. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code> . Valid values:</p> <ul style="list-style-type: none"> <li>ASG_AVG_CPU_UTILIZATION: Average CPU utilization</li> <li>ASG_AVG_LAN_TRAFFIC_OUT: Average private bandwidth out</li> <li>ASG_AVG_LAN_TRAFFIC_IN: Average private bandwidth in</li> <li>ASG_AVG_WAN_TRAFFIC_OUT: Average public bandwidth out</li> <li>ASG_AVG_WAN_TRAFFIC_IN: Average public bandwidth in</li> </ul> <p>Note: This field may return <code>null</code> , indicating that no valid values can be obtained.</p>
TargetValue	Integer	<p>Target value. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code> . Value ranges:</p> <ul style="list-style-type: none"> <li>ASG_AVG_CPU_UTILIZATION (in %): [1, 100)</li> <li>ASG_AVG_LAN_TRAFFIC_OUT (in Mbps): &gt;0</li> <li>ASG_AVG_LAN_TRAFFIC_IN (in Mbps): &gt;0</li> <li>ASG_AVG_WAN_TRAFFIC_OUT (in Mbps): &gt;0</li> <li>ASG_AVG_WAN_TRAFFIC_IN (in Mbps): &gt;0</li> </ul> <p>Note: This field may return <code>null</code> , indicating that no valid values can be obtained.</p>
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	<p>Whether to disable scale-in. It's only available when <code>ScalingPolicyType</code> is <code>TARGET_TRACKING</code>. Valid values:</p> <ul style="list-style-type: none"> <li><code>true</code>: Scaling in is not allowed.</li> <li><code>false</code>: Allows both scale-out and scale-in</li> </ul> <p>Note: This field may return <code>null</code>, indicating that no valid values can be obtained.</p>
MetricAlarms	Array of <a href="#">MetricAlarm</a>	<p>List of alarm monitoring metrics. This parameter is only applicable to a target tracking policy.</p> <p>Note: This field may return <code>null</code>, indicating that no valid values can be obtained.</p>
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	Repeating mode of the scheduled task.
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	Creation time of the scheduled task. 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.
ScheduledType	String	Specifies how the scheduled action is executed. <ul style="list-style-type: none"> <li><code>CRONTAB</code> : execute repeatedly</li> <li><code>ONCE</code> : execute only once</li> </ul>

## 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 <code>False</code> by default.
ScalingMode	String	No	Valid values: <code>CLASSIC_SCALING</code> : this is the typical scaling method, which creates and terminates instances to perform scaling operations. <code>WAKE_UP_STOPPED_SCALING</code> : 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: <code>CLASSIC_SCALING</code>
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	<p>Replace mode of unhealthy replacement service.</p> <p>Valid values:</p> <p>RECREATE: Rebuild an instance to replace the original unhealthy instance.</p> <p>RESET: Performing a system reinstallation on unhealthy instances to keep information such as data disks, private IP addresses, and instance IDs unchanged. The instance login settings, HostName, enhanced services, and UserData will remain consistent with the current launch configuration.</p> <p>Default value: RECREATE.</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>

## SpotMarketOptions

Bidding-related options

Used by actions: CreateLaunchConfiguration, ModifyLaunchConfigurationAttributes, UpgradeLaunchConfiguration.

Name	Type	Required	Description
MaxPrice	String	Yes	Bidding price such as "1.05"
SpotInstanceType	String	No	<p>Bid request type. Currently, only "one-time" type is supported.</p> <p>Default value: one-time</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>

## 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 group capacity that must be fulfilled by pay-as-y

			<p>instances. It defaults to 0 if not specified. cannot exceed the max capacity of the sc group.</p> <p>Note: this field may return <code>null</code> , indicate no valid value can be obtained.</p>
OnDemandPercentageAboveBaseCapacity	Integer	No	<p>Controls the percentage of pay-as-you-go instances for the additional capacity beyond <code>BaseCapacity</code> . Valid range: 0-100. 0 indicates that only spot instances are provisioned, while the value 100 indicates pay-as-you-go instances are provisioned defaults to 70 if not specified. The number of pay-as-you-go instances calculated on the percentage should be rounded up.</p> <p>For example, if the desired capacity is 3, <code>BaseCapacity</code> is set to 1, and the <code>OnDemandPercentageAboveBaseCapacity</code> is set to 1, the scaling group will have 2 pay-as-you-go instances (one comes from the base capacity, and the other comes from the remainder of the proportion), and 1 spot instance.</p> <p>Note: this field may return <code>null</code> , indicate no valid value can be obtained.</p>
SpotAllocationStrategy	String	No	<p>Specifies how to assign spot instances in instance mode. Valid values: <code>COST_OPTIMIZED</code> and <code>CAPACITY_OPTIMIZED</code> ; default value: <code>COST_OPTIMIZED</code> .</p> <ul style="list-style-type: none"> <li><code>COST_OPTIMIZED</code> : the lowest cost policy. For each model in the launch configuration, AS tries to purchase it based on the lowest unit price in each availability zone. If the purchase fails, AS tries to purchase the second-lowest unit price.</li> <li><code>CAPACITY_OPTIMIZED</code> : the optimized capacity policy. For each model in the launch configuration, AS tries to purchase it based on the largest stock in each availability zone, minimizing the automatic repossession probability of instances.</li> </ul> <p>Note: this field may return <code>null</code> , indicate no valid value can be obtained.</p>

CompensateWithBaseInstance	Boolean	No	<p>Whether to replace with pay-as-you go in Valid values:</p> <ul style="list-style-type: none"> <li><code>TRUE</code> : yes. After the purchase of spot instances failed due to insufficient stock reasons, purchase pay-as-you-go instances.</li> <li><code>FALSE</code> : no. The scaling group only configured model of spot instances when to add spot instances.</li> </ul> <p>Default value: <code>TRUE</code> .</p> <p>Note: this field may return <code>null</code> , indicating no valid value can be obtained.</p>
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## 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	<p>System disk type. For more information on limits of system disk types, see <a href="#">Cloud Disk Types</a>. Valid values:</p> <ul style="list-style-type: none"> <li><code>LOCAL_BASIC</code> : local disk</li> <li><code>LOCAL_SSD</code> : local SSD disk</li> <li><code>CLOUD_BASIC</code> : HDD cloud disk</li> <li><code>CLOUD_PREMIUM</code> : premium cloud storage</li> <li><code>CLOUD_SSD</code> : SSD cloud disk</li> </ul> <p>Default value: <code>CLOUD_PREMIUM</code> .</p> <p>Note: this field may return <code>null</code> , indicating that no valid value can be obtained.</p>
DiskSize	Integer	No	<p>System disk size in GB. Default value: 50</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>

# 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	Type of the resource binded to the tag. Currently supported types include "auto-scaling-group" Note: This field may return null, indicating that no valid values can be obtained.

# TargetAttribute

Load balancer target attribute

Used by actions: `AttachLoadBalancers`, `CreateAutoScalingGroup`, `DescribeAutoScalingGroups`, `ModifyLoadBalancerTargetAttributes`, `ModifyLoadBalancers`.

Name	Type	Required	Description
Port	Integer	Yes	Port
Weight	Integer	Yes	Weight

# Error Codes

Last updated : 2024-10-25 15:16:40

## 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	<code>Authorization</code> 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 <a href="#">CAM</a> documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalServerError	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.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.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 <code>InstanceMarketOptions</code> 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.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 <b>No Charges When Shut Down</b> .
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 CLBs are 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.