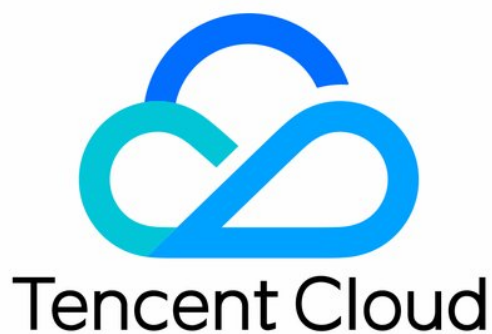


Tencent Cloud Observability Platform Grafana Product Documentation



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Contents

Grafana

Product Introduction

Overview

Strengths

Use Cases

Operation Guide

Instance

Creating Instance

Searching for Instance

Terminating Instance

Upgrading Instance

Rebooting Instance

Viewing Instance's Basic Information

Tencent Cloud Service Integration

Tencent Cloud Service Integration

Service Role

Plugin Management

Installing Plugin

Uninstalling Plugin

Logging in to Grafana

Notification Channel

Configuration Management

Image Rendering

Account Management

FAQs

Grafana

Product Introduction

Overview

Last updated : 2024-11-01 20:29:07

TencentCloud Managed Service for Grafana (TCMG) is a managed service developed by Tencent Cloud based on Grafana, a popular open-source visualization project, in collaboration with Grafana Lab. It provides secure and OPS-free Grafana capabilities, various built-in Tencent Cloud and third-party data source plugins such as TMP, TKE, CLS, Graphite, and InfluxDB, and eventually implements unified data visualization.

Grafana Overview

Grafana is a cross-platform open-source visualization and analysis tool. As one of the most popular time series data display tools in network architecture and application analysis, it is mostly used to visually display large numbers of metric data.

Features

It provides easy-to-use client charts and rich dashboard plugins to make complex data more intuitively understandable.

It supports multiple data sources with different time series, including Graphite, InfluxDB, OpenTSDB, Prometheus, and Elasticsearch.

It can centrally display the data of the same business from different data sources on the same dashboard.

It allows you to quickly share dashboards for efficient collaboration on data analysis and troubleshooting.

Strengths

Last updated : 2024-11-01 20:29:34

High Security and Reliability

TCMG is integrated with Tencent Cloud SSO and leverages Tencent Cloud authentication capabilities such as MFA for fine-grained control of dashboards and monitoring data security. In addition, it supports access over both private and public networks with the aid of VPC, which further enhances Grafana's overall security.

Unified Visualization of Multiple Data Sources

TCMG is preconfigured with a wide variety of Tencent Cloud data source plugins for quick connection to CM, TMP, CLS, ES, etc. It also retains Grafana's open-source capability of interconnecting with third-party data sources such as Graphite and InfluxDB for centralized data display and management.

Low Costs

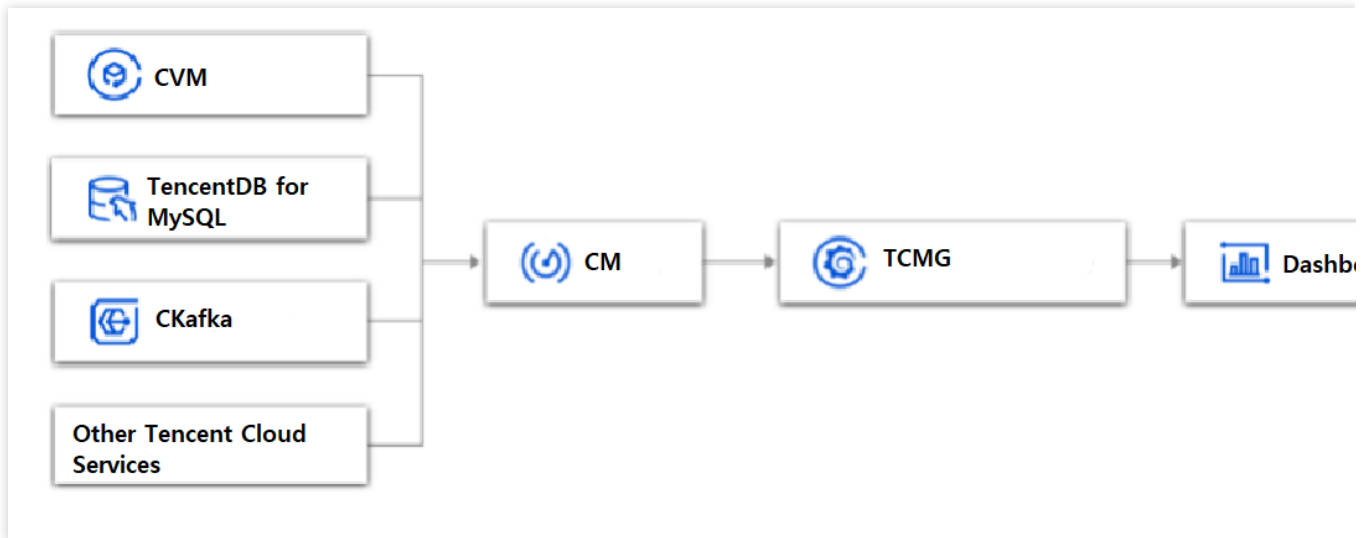
TCMG automatically builds, installs, deploys, upgrades, and manages Grafana for you, greatly reducing your OPS costs. Its preset remote image rendering service saves your costs on server setup and management. Moreover, it is preset with Tencent Cloud monitoring dashboards and plugins to provide you with out-of-the-box service.

Use Cases

Last updated : 2024-11-01 20:30:01

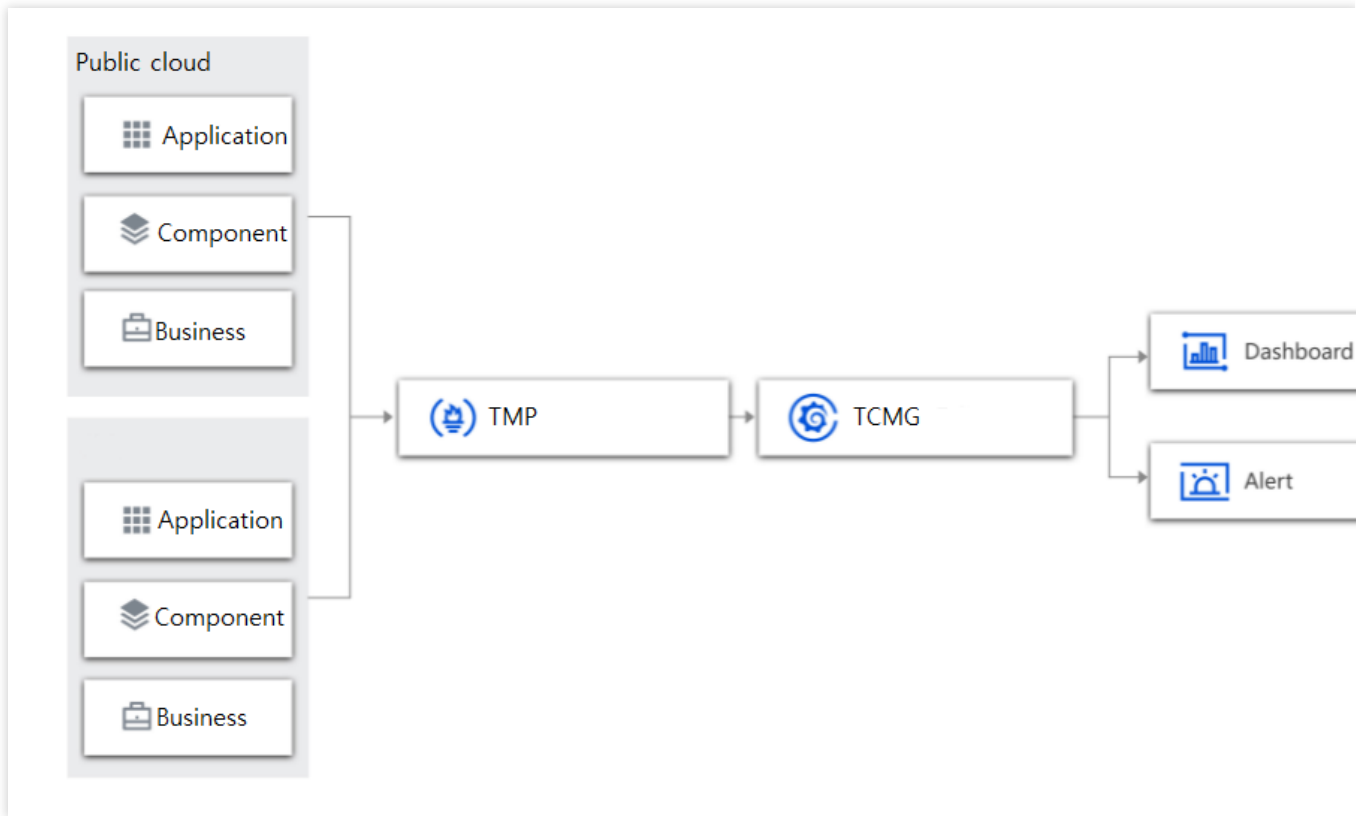
Tencent Cloud Service Data Visualization

TCMG can work together with preset CM plugins to visualize data of various cloud services in CM, such as CVM, TencentDB for MySQL, CKafka, and Redis.



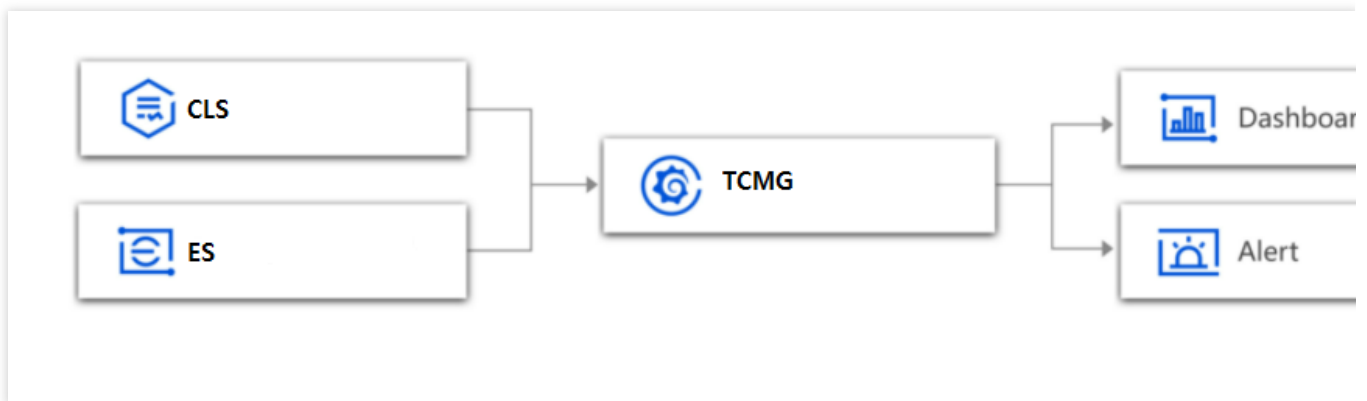
Full-Stack Visual Monitoring

TCMG can be connected to TMP or self-built Prometheus service to actualize full-stack monitoring from technical architecture to component to custom business.



Log Data Visualization

TCMG can be connected to ES and CLS to visualize log data.



Operation Guide

Instance

Creating Instance

Last updated : 2024-11-01 21:21:39

This document describes how to create a TencentCloud Managed Service for Grafana (TCMG) instance.

Directions

1. Enter the [TCMG purchase page](#) and configure the following items as needed:

| Configuration Item | Required | Configuration Description |
|--------------------|----------|---|
| Billing Mode | Yes | Currently, only monthly subscription billing is supported. |
| Region and AZ | Yes | Select a region based on the region of your Tencent Cloud service. Tencent Cloud services in different regions cannot interconnect with each other over private network. Selecting the region closet to your end users can minimize access latency. Once the instance is created, you cannot switch the region. |
| Network | Yes | Currently, only subnets in certain AZs are supported. For more information, see the TCMG purchase page . “Network” refers to a logically isolated network space in Tencent Cloud. A VPC consists of at least one subnet. The system will provide a default VPC and subnet for you in each region. If the existing VPCs/subnets don't meet your requirements, you can create new ones as instructed in Creating VPC and Creating Subnets . |
| Instance Edition | Yes | Three instance editions are supported: Basic, Advanced, and Pro. They only differ in the number of accounts they support. For more information, see Monthly Subscription . |
| Instance Name | Yes | You can customize the name of a TCMG instance. |
| Username | Yes | The default username is “admin” and cannot be changed. |
| Password | Yes | A custom Grafana login password, which must contain 8–16 characters in at least three of the following four character types: uppercase letters, lowercase letters, digits, and symbols (-!@#\$\$%^&*+=_:::?.). |
| Tag | No | Tags can be configured to manage resources by category in different dimensions. For more information, see Managing Instances via Tags . |

| | | |
|--------------|----|---|
| Auto-Renewal | No | Your instance will be automatically renewed monthly upon expiration if your account has a sufficient balance. |
|--------------|----|---|

Configurations

Billing Mode Monthly subscription

Region East China Hong Kong/Macao/Taiwan (China) Asia Pacific Europe and North America Southeast As

Shanghai

Tencent Cloud services in different regions cannot communicate with each other over the private network. We recommend you select a region closest to your end users to minimize acc


AZ Sold out Shanghai Zone 1 Shanghai Zone 2 Shanghai Zone 3 Shanghai Zone 4 Shanghai Zone 5 Sold out Shanghai Zone 6 Sold out Shanghai Zone 7

Network Select a VPC Please select a VPC.


If the existing VPC/subnet does not meet your requirement, you can go to the console to [create a VPC](#)

Instance Information


Instance Edition



Basic Edition
Supports 20 user accounts



Advanced Edition
Supports 50 user accounts



Pro Edition
Supports 100 user accounts

Instance Name Up to 128 characters

Username admin

Grafana Password

Confirm Password

Domain Name Access Enable

Tag (optional)

+ Add

If the existing tag/tag value does not meet your requirement, you can [create one](#) in the console.

Auto-Renewal Auto-renew the device monthly upon expiration if my account has sufficient balance

Validity Period 1 month 2 months 3 months 6 months 1 year More

2. Confirm the information you enter, click **Buy Now**, and make payments.

Searching for Instance

Last updated : 2024-11-01 21:24:06

By default, Grafana instances in the current region are displayed in the TCMG console. To help you quickly find the instances in the current region, Tencent Cloud provides the search feature and allows you to filter instances by resource attributes such as instance ID, name, status, and tag.

Directions

1. Log in to the [TCMG console](#).
2. Enter the conditions in the search box as needed and click



The screenshot shows the TencentCloud Managed Service for Grafana console. At the top, there is a search bar with the text "Instance Name: test" and a "Separate" button. Below the search bar is a table of instances. The table has columns for Instance ID/Name, Status, Network, Private Network, Configuration, and Billing Mode. Two instances are listed, both with a status of "Running". The first instance has an ID of "test-test" and a "Renew" button. The second instance has an ID of "test-carldai" and a "Renew" button. The table also shows network details, configuration (Basic Edition), and billing mode (Monthly subscription).

| Instance ID/Name | Status | Network | Private Network ... | Configuration | Billing Mode | Ti |
|----------------------|---------|--|---------------------|---------------|--|----|
| test-test carl Renew | Running | Network:joklr-test Subnet: subnet-joklr-test-1 | | Basic Edition | Monthly subscription 2022/12/09 18:52:13Expired | |
| test-carldai Renew | Running | Network:joklr-test Subnet: subnet-joklr-test-1 | | Basic Edition | Monthly subscription 2022/12/17 12:03:00Expired | |

Total items: 2

3. You can filter instances by different conditions. Currently, the following dimensions are supported:

Instance ID: you can directly enter multiple instance IDs for quick filtering. Each instance ID supports only full match-based filtering.

Instance name: you can enter only one instance name for filtering. Fuzzy match-based filtering is supported.

Status: you can enter multiple status values for filtering. You can also configure the list header for quick filtering.

Tag: you can enter multiple tags to filter instances. You can also directly click a tag value in the instance list for filtering.

Terminating Instance

Last updated : 2024-11-01 21:24:30

If you no longer use an instance, you can terminate/return it, and it will be suspended once terminated/returned. You can reboot suspended instances according to different scenarios and needs.

Impact

Once an instance is suspended, its data will be affected as follows:

IP: the corresponding IP address will be returned.

Grafana: Grafana cannot be accessed at the corresponding domain name.

Data retention: after an instance is terminated/returned, it will be suspended and retained for 7 days, after which it will be terminated and its data will be deleted and cannot be recovered.

Directions

1. Log in to the [TCMG console](#).
2. In the instance list, select the Grafana instance to be terminated/returned and click **More > Instance Status > Terminate/Return** on the right.
3. As termination/return is a high-risk operation, in the **Terminate/Return** window that pops up, complete the three termination/return steps as prompted and click **OK**.

Terminate

- 1 Termination Details >
- 2 Confirm >
- 3 Notes

You have selected this instance:

| Instance ID/Name | Status | Network | Billing Mode |
|------------------|------------------------|--|----------------------|
| | ✓ Running | Network:joklr-test Subnet:subnet-joklr-test-1 | Monthly subscription |

• Once terminated, the instance will be retained for seven days in the recycle bin.

Upgrading Instance

Last updated : 2024-11-01 21:24:50

This document describes how to upgrade a Grafana instance.

Directions

1. Log in to the [TCMG console](#).
2. In the instance list, select the Grafana instance to be upgraded and click **More > Instance Status > Upgrade** on the right.
3. In the pop-up window, select the target version to upgrade to.

Upgrade

1 Upgrade Details > 2 Confirm > 3 Notes

You have selected this instance:

| Instance ID/Name | Status | Network | Billing Mode | Version |
|------------------|---------|--|----------------------|---------|
| billing-carl | Running | Network:joklr-test Subnet:subnet-joklr-test-1 | Monthly subscription | v9.1.5 |

Please select a version

The instance will be upgraded.

4. After all steps are completed, the instance will be upgraded and rebooted.

Notes

1. Open-Source Grafana can be upgraded only from one version to the next version, and for instance upgrade across more than two versions, you can upgrade the instance multiple times.

2. When an instance is upgraded, its data will be backed up on the backend. If the upgrade fails, the instance will be automatically restored to the status before the upgrade.

Rebooting Instance

Last updated : 2024-11-01 21:25:09

Instance rebooting will be triggered when you modify the following Grafana configuration items.

SSO and disablement.

Custom DNS.

Tencent Cloud service integration.

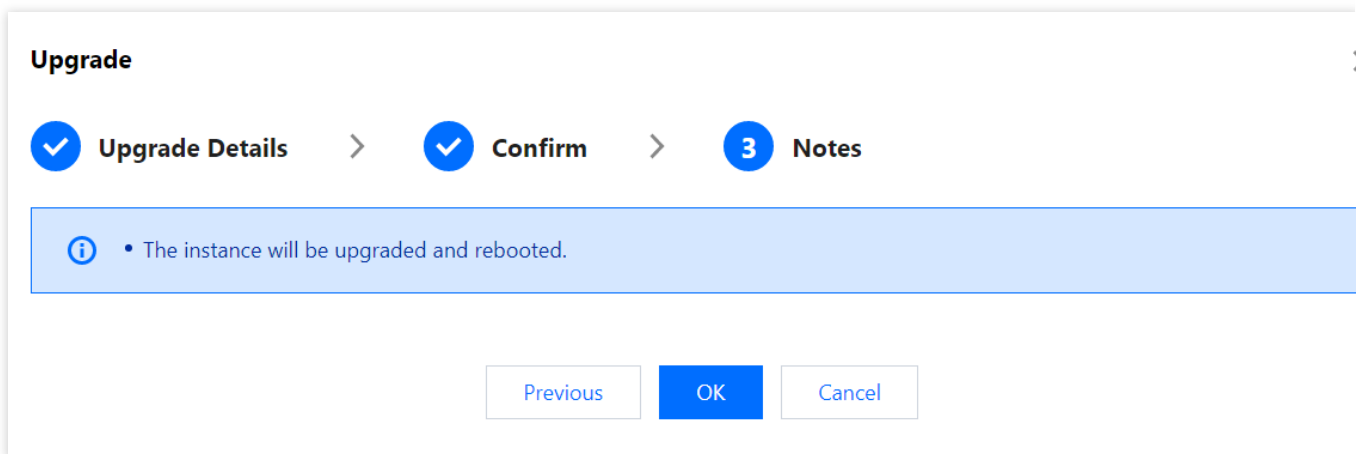
Installed plugin.

Notification channel.

Grafana INI configuration.

LDAP configuration.

Environment variable.



Notes

1. The instance rebooting process takes about one minute.
2. During rebooting, to ensure data consistency, you can still access Grafana to view the monitoring data at the domain name, but editing operations will not take effect.
3. During rebooting, you can still edit the Grafana configuration in the console.

Viewing Instance's Basic Information

Last updated : 2024-11-01 21:25:31

This document describes how to view the basic information of an instance.

Directions

1. Log in to the [TCMG console](#).
2. In the instance list, find the target instance and click its **instance ID** or **Management** on the right to view its basic information.

The screenshot displays the Tencent Cloud console interface. On the left is a navigation sidebar with the following menu items: Basic Info (selected), Tencent Cloud Service Integration, Plugin, Alert Channel, Configuration, Image Rendering, Account Management, and Data Security. The main content area is titled 'Basic Info' and contains the following details:

- Instance Name:** billing-carl
- Instance ID:** [Redacted]
- Status:** Running (indicated by a green checkmark)
- Billing Mode:** Monthly subscription
- Configuration:** Advanced Edition
- Region:** Shanghai
- Network/Subnet:** joklr
- Access Address:** [Redacted]
- Version:** v9.1.5
- Tag:** -
- Creation Time:** 2022/10/17 11:34:03

Below the 'Basic Info' section, there is a 'Network' section with the following settings:

- Private Network Address:** [Redacted]
- Public Network Address:** [Toggle switch is off]
- Single Sign-on:** [Toggle switch is on]
- Custom DNS:** Not set

3. You can perform the following operations on the basic information page:

Rename the instance.

Edit instance tags.

Enable public network access.

Configure a public IP allowlist to enhance security.

Enable SSO. SSO is a unified authentication and authorization mechanism. After it is enabled, you can log in to Grafana with your Tencent Cloud account.

Customize your private DNS as needed to allow Grafana to resolve and access domain names through it.

Notes on SSO

1. SSO supports tags. You can configure tags for your instance, and sub-accounts that have permissions of the tag will automatically get the login permission.

2. The account permission for SSO login is Admin. Grafana itself doesn't support getting the Server Admin permission through SSO. You can log in with your password and configure the Server Admin permission for SSO.

Tencent Cloud Service Integration

Tencent Cloud Service Integration

Last updated : 2024-11-01 21:26:04

You can perform the following operations on the Tencent Cloud service integration page:

View available integrations

Manage installed integrations

Configure service roles

Prerequisites

1. Log in to the [TCMG console](#).
2. Find the corresponding Grafana instance in the list and click its **instance ID** to enter the Grafana instance management page.
3. Click **Tencent Cloud Service Integration** on the left sidebar.

Viewing Available Integrations

On the **Tencent Cloud Service Integration** page, you can view and search for the available integrations of the current instance and install and connect them. After they are connected successfully, their monitoring data will be displayed on the Grafana dashboard.


Tencent Cloud Service Integration

[Tencent Cloud Service Integration](#) [Integration List](#) [Service Role](#)

Tencent Cloud Service Integration

Search for access mode by keyword


Category: [All](#) [Tencent Cloud S...](#)



Cloud Log Service

Connect to Cloud Log Service


[Install](#) [Integration Guide](#)



Cloud Monitor

Use Cloud Monitor Grafana plugin to visualize the monitoring data of Tencent Cloud services

[Install](#) [Integration Guide](#)



Kong

Connect to Tencent Managed

[Install](#)

Prometheus

1. Click **Install** below **Prometheus** to enter the installation page.

2. Configure the data source:

Data Source Name: enter the Prometheus instance ID.

Data Source Address: enter the private network address of Prometheus such as `http://x.x.x.x:9090`.

UID: it is the unique data source ID. We recommend you enter the Prometheus instance ID.

Account: `Appid` of your Tencent Cloud account, i.e., the account on the Prometheus instance details page.

Password: token on the Prometheus instance details page.

Dashboard Configuration: the dashboards in the Prometheus integration center will be automatically installed through this optional parameter, so you don't need to enter it.

3. After completing the configuration, click **Save**. After the system is rebooted, you can view the installed Prometheus data source on the Grafana data source page.

CM

1. Click **Install** below **CM** to enter the installation page.

2. Configure the data source:

Data Source Name: enter the data source name.

Authentication: select the authentication type.

With key:

SecretID: enter your `SecretID`.

SecretKey: enter your `SecretKey`.

Integration list / **New**

Cloud monitoring Grafana plugin


Data source configuration

Data source name *

Authentication

Authentication *

SecretID ⓘ

SecretKey 

After saving, the instance will be rebuilt

With service role: this option requires you to configure the service role with corresponding permissions for your instance. For detailed directions, see [Service Role](#).

Integration list / **New**

Cloud monitoring Grafana plugin

Data source configuration

Data source name *

Authentication

Authentication *

Service role

After saving, the instance will be rebuilt

3. After completing the configuration, click **Save**. After the system is rebooted, you can view the installed CM data source on the Grafana data source page.

CLS

1. Click **Install** below **CLS** to enter the installation page.

Integration list / **New**

Tencent Cloud Log Service CLS plugin

Data source configuration

Data source name *

SecretID ⓘ *
The length of this option cannot be less than 36

SecretKey *

Log service configuration

Region ⓘ *

TopicId ⓘ *

After saving, the instance will be rebuilt

2. Configure the data source:

Data Source Name: enter the data source name.

SecretID: enter your `SecretID` .

SecretKey: enter your `SecretKey` .

3. Configure CLS:

Region: region such as `ap-guangzhou` . For the complete list, see [Available Regions](#).

TopicId: log topic. For more information, see [Log Topic](#).

4. After completing the configuration, click **Save**. After the system is rebooted, you can view the installed CLS data source on the Grafana data source page.

Managing Installed Integrations

Select **Integration List** to view the installed integrations, which may be installed by you or automatically by Tencent Cloud services through the binding relationship and can be deleted in the **Operation** column.

Cloud product integration

Cloud product integration **Integration list** Service role

| name | type | describe | Label |
|--------------------------------------|---------------------------------|-----------------------------------|-------|
| integration-8gupcof2 | tencent-clis-grafana-datasource | Tencent Cloud Log Service Data... | |

Service Role

Last updated : 2024-11-01 21:26:24

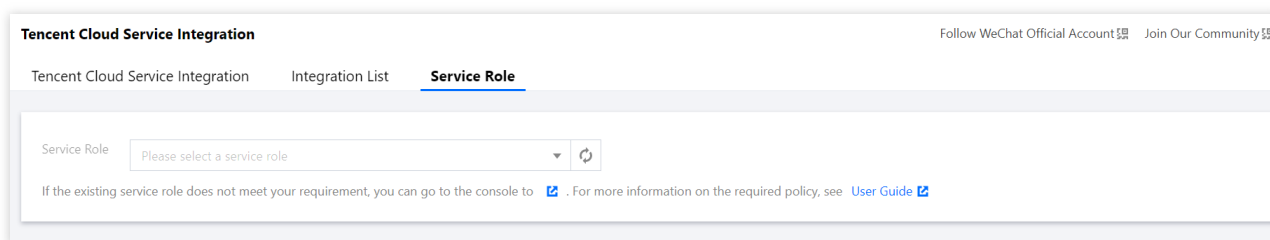
After you authorize your Grafana instance with a service role, it can access corresponding APIs with the temporary key of the service role. Do not enter sensitive `SecretID` / `SecretKey` ; otherwise, the data security may be compromised.

Prerequisites

1. Log in to the [TCMG console](#).
2. In the instance list, find the target instance and click **Instance ID**.
3. On the instance details page, click **Tencent Cloud Service Integration** in the list on the left.

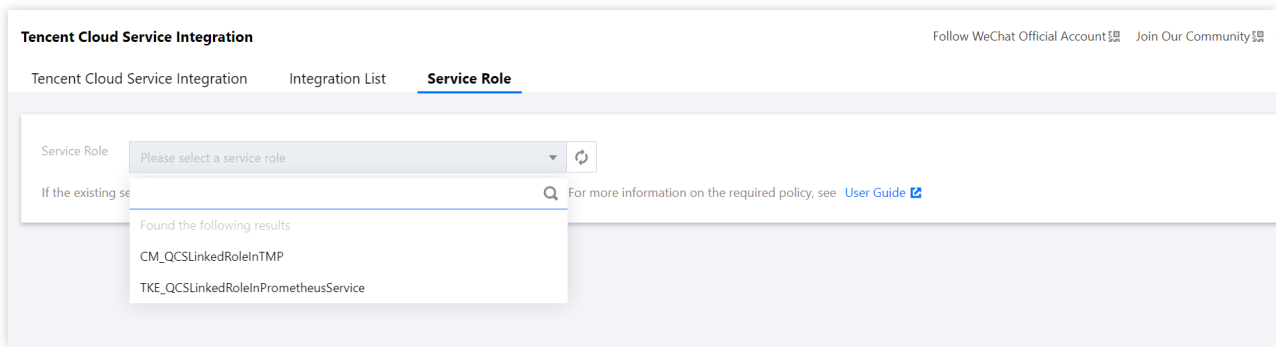
Directions

Click the **service role editing** icon in the top-right corner of the **Tencent Cloud Service Integration** page to configure a service role for the current instance.



Selecting service role

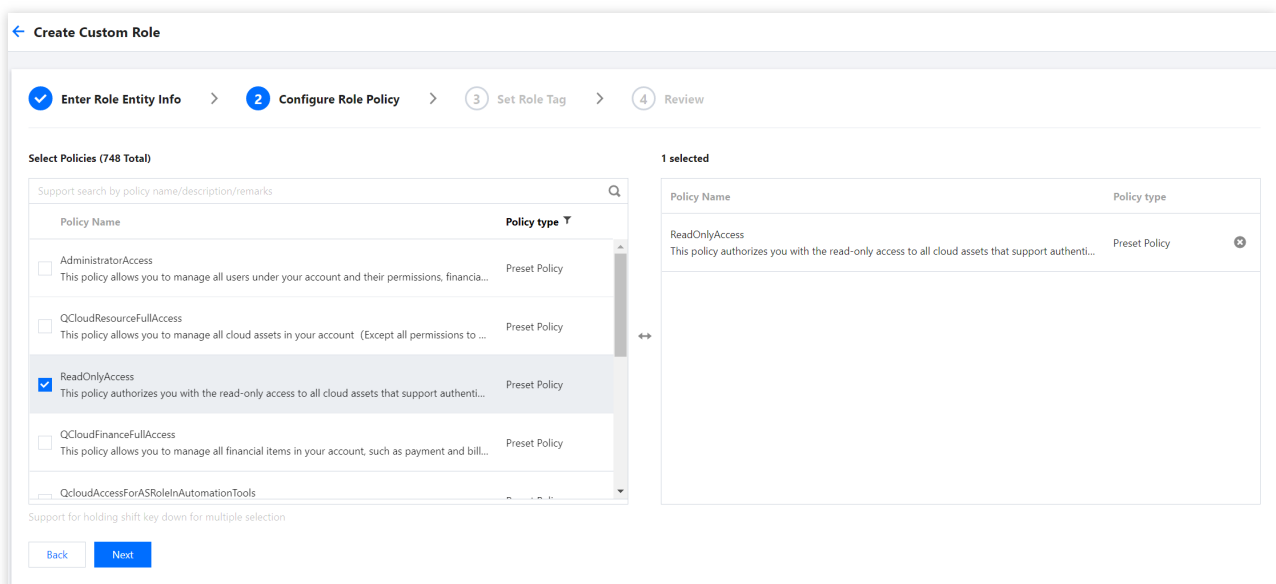
1. Click the **Service Role** drop-down list, and eligible service roles will be automatically loaded.
2. Select a preconfigured or self-created service role. Different Tencent Cloud services have different requirements for service role permissions, and you can create service roles as needed.
3. Click **Save**, and the instance will be rebooted.



Creating service role

For demonstration purposes, this section uses the preconfigured `ReadOnlyAccess` policy as an example. You can view the policies required by Tencent Cloud services at the end of this document and configure read-only access as needed.

1. Go to the [CAM > Role](#) page.
2. Click **Create Role** in the top-right corner and select **Tencent Cloud Product Service** in the pop-up window.
3. In the **Enter role entity info** step, select **Cloud Virtual Machine (CVM)** and click **Next**.
4. In the **Configure role policy** step, search for and select **ReadOnlyAccess** and click **Next**.



5. Preview the custom role, name it, and click **Complete**.

Policies required by Tencent Cloud services

Policies required by TCMG plugins

| Policy Description | Policy Name |
|--------------------|-------------|
|--------------------|-------------|

| | |
|-----------------------------------|-----------------------------|
| Read-Only access to CM | QcloudMonitorReadOnlyAccess |
| Read-Only access to CVM resources | QcloudCVMReadOnlyAccess |
| Read-Only access to CLS | QcloudCLSReadOnlyAccess |

Policy required by CLS

| Policy Description | Policy Name |
|---------------------------|-------------------------|
| Read-Only access to CLS | QcloudCLSReadOnlyAccess |

Plugin Management

Installing Plugin

Last updated : 2024-11-01 21:26:57

Currently, TCMG provides common Grafana plugins for you to install as needed. This document describes how to install plugins.

Prerequisites

You have created a [Grafana instance](#).

Directions

1. Log in to the [TCMG console](#).
2. Select the Grafana instance from the instance list.
3. Click **Plugin** on the left sidebar.
4. Select the desired plugin in the list and click **Install**.

Grafana Plugin

Follow WeChat Official Account

Installed:

No data

Select a Grafana plugin you want to install

Filter by plugin ID

| ID | Version |
|--|---------|
| <input checked="" type="checkbox"/> grafana-piechart-panel | 1.6.2 |
| <input type="checkbox"/> grafana-clock-panel | 1.2.0 |
| <input type="checkbox"/> camptocamp-prometheus-alertmanager-datasource | 1.0.0 |
| <input type="checkbox"/> tencentcloud-monitor-app | 2.7.6 |
| <input type="checkbox"/> williamvenner-timepickerbuttons-panel | 4.1.1 |

Selected (1)

| ID |
|------------------------|
| grafana-piechart-panel |

Support for holding shift key down for multiple selection

Install

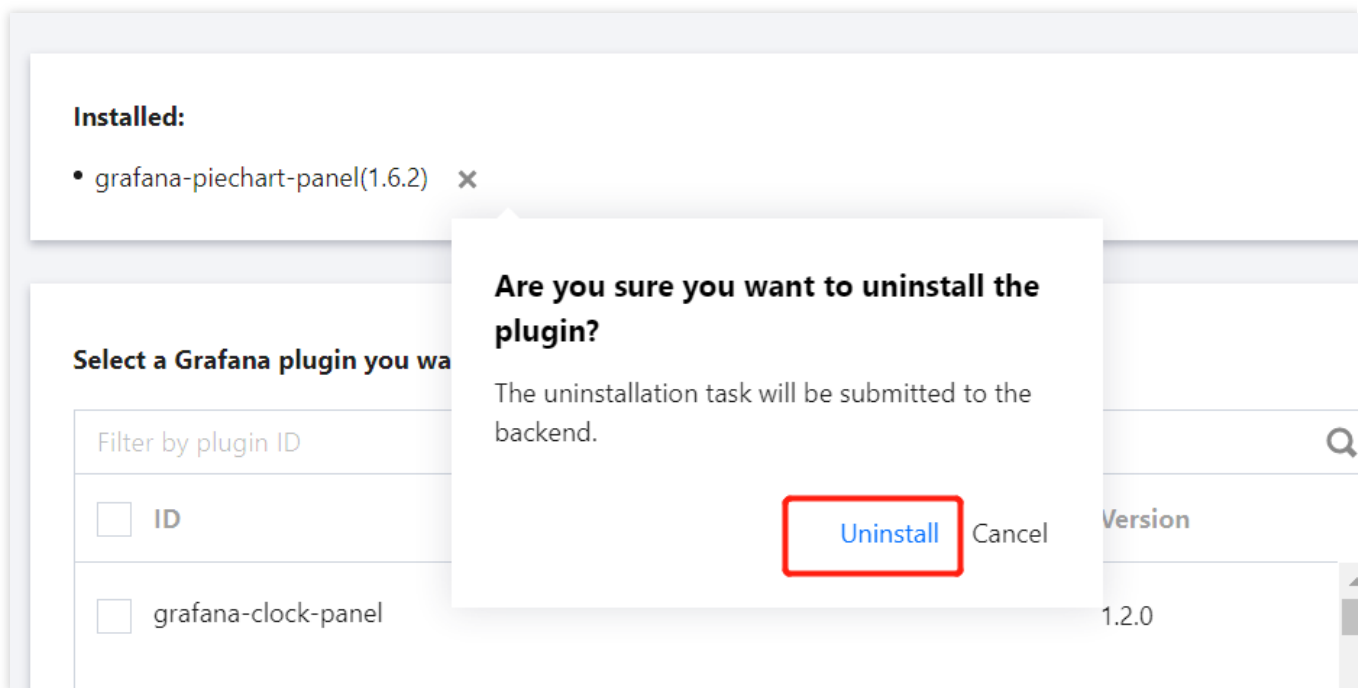
Uninstalling Plugin

Last updated : 2024-11-01 21:27:45

This document describes how to uninstall a TCMG plugin.

Directions

1. Log in to the [TCMG console](#).
2. Select the Grafana instance from the instance list.
3. Click **Plugin** on the left sidebar.
4. Select the plugin to be uninstalled in the list of installed plugins, click **×** on the right, click **Uninstall** > **OK** in the pop-up window, and wait for the instance to be rebooted.



Logging in to Grafana

Last updated : 2024-11-01 21:28:37

This document describes how to log in to Grafana.







Directions

1. Log in to the [TCMG console](#).
2. In the instance list, find the target instance and click the **Grafana icon**



TencentCloud Managed Service for Grafana Shanghai 3 Other regions 10 Follow WeChat Of

[Create](#) Separate keywords with

| Instance ID/Name | Status | Network | Private Network ... | Configuration | Billing Mode | Tag (key:va |
|---|---------|--|---------------------|------------------|--|-------------|
|  | Running | Network:joklr-test Subnet: subnet-joklr-test-1 | | Advanced Edition | Monthly subscription  2022/12/17 11:34:03Expired | |
|  Renew | Running | Network:joklr-test Subnet: subnet-joklr-test-1 | | Basic Edition | Monthly subscription  2022/12/09 18:52:13Expired | |
|  Renew | Running | Network:joklr-test Subnet: subnet-joklr-test-1 | | Basic Edition | Monthly subscription  2022/12/17 12:03:00Expired | |

Total items: 3 10

3. On the Grafana login page, enter your account and password or log in with SSO.

Notification Channel

Last updated : 2024-11-01 21:28:56

TCMG allows you to add notification channels. Alert notifications can be sent through multiple channels such as webhook, email, SMS, and phone.

Prerequisites

1. Log in to the [TCMG console](#).
2. In the instance list, find the target instance and click **Instance ID**.

Directions

1. Enter the instance details page and click **Notification Channel** in the list on the left.
2. On the **Notification Channel** management page, click **Create** in the top-left corner.
3. On the **Create Notification Channel** page, enter the channel name and select or create a notification template as instructed in [Creating Notification Template](#).

Alert Channel / **Create**

Channel Name *

Alert Notification *

1 selected. 2 more can be selected

| Notification Template Name | Included Operations |
|----------------------------|----------------------|
| slack | User Notification: 1 |

▶ Advanced Settings

4. After a notification template is created, you can return to the notification channel creation page, select the created template, and click **Save**. You can view the created notification channel on the **Grafana Alert Notification Channel** page after the instance is rebooted.

5. When configuring a Grafana alert, select the name of the added channel in the **Notification Channel** configuration block.

The screenshot displays the Grafana Alert configuration interface. At the top, there are tabs for 'Query' (1), 'Transform' (0), and 'Alert' (0), with 'Alert' being the active tab. Below the tabs, the 'Rule' section is visible, showing a name 'Panel Title alert', an 'Evaluate every' interval of '1m', and a 'For' duration of '5m'. The 'Conditions' section shows a condition: 'WHEN avg () OF query (A, 5m, now) IS ABOVE'. The 'No data and error handling' section shows two rows: 'If no data or all values are null' set to 'No Data' and 'If execution error or timeout' set to 'Alerting'. The 'Notifications' section has a 'Send to' field with a '+' icon, which is highlighted by a red arrow. The 'Message' field contains 'Notification message details...'.

Configuration Management

Last updated : 2024-11-01 21:29:12

TCMG allows you to customize the Grafana configuration parameters, LDAP configuration parameters, and environment variables.

Prerequisites

1. Log in to the [TCMG console](#).
2. Find the target instance and click **Instance ID**.

Grafana Configuration

1. Enter the instance details page and click **Configuration** in the list on the left.
2. On the **Configuration** management page, click **Create** in the top-left corner.

The screenshot shows the 'Configuration' management page for a Tencent Cloud instance. The page has a header with 'Configuration' on the left and 'Follow WeChat Official Account' on the right. Below the header are three tabs: 'Grafana Configuration' (which is selected and underlined), 'LDAP Configuration', and 'Environment Variable'. On the left side of the main content area, there is a blue 'Edit' button. The main content area contains a table with three columns: 'Configuration Items', 'Description', and 'Value'. The table has a collapsed row for 'server' and three expanded rows for 'http_port', 'root_url', and 'serve_from_sub_path'.

| Configuration Items | Description | Value |
|---------------------|---|------------------|
| server | | |
| http_port | | 8080 |
| root_url | This is the full URL used to access Grafana from a we... | https://cloud-gr |
| serve_from_sub_path | Serve Grafana from subpath specified in root_url setti... | true |

3. In the pop-up window, enter the custom configuration file content in INI format, click **Save**, and the instance will be rebooted. For more information, see [Configuration](#).

LDAP Configuration

1. Enter the instance details page and click **Configuration** in the list on the left.
2. On the **Configuration** management page, switch to the **LDAP Configuration** tab and click **Modify** in the top-left corner.
3. Enter the custom LDAP configuration content in INI format as instructed in [LDAP Authentication](#), click **Save**, and the instance will be rebooted.

Environment Variable

1. Enter the instance details page and click **Configuration** in the list on the left.
2. Switch to the **Environment Variable** tab and click **Modify** in the top-left corner.
3. Configure the environment variable as needed, click **Save**, and the instance will be rebooted.

The screenshot shows the 'Configuration' management page with three tabs: 'Grafana Configuration', 'LDAP Configuration', and 'Environment Variable'. The 'Environment Variable' tab is selected and underlined. The page title is 'Configuration' and there is a 'Follow WeChat Official' link in the top right. Below the tabs, the 'Environment Variable' section is titled 'Environment Variable Edit Environment Variable'. It features a table with two columns: 'Environment Variable *' and 'Value'. The first row has 'Type' in the first column and 'Value' in the second column, with a close button 'X' to the right. Below the table is a '+ Add' button. At the bottom, there are 'Save' and 'Cancel' buttons, and a red warning message: 'The instance will be rebooted after the configuration is saved.'

Notes

1. Currently, you cannot configure credentials for LDAP.
2. The environment variable name must start with a letter or underscore and can contain only letters, underscores, and digits.

Image Rendering

Last updated : 2024-11-01 21:29:31

TCMG is preconfigured with a remote image rendering server, so you can use the image rendering capabilities without performing any additional operations. This document lists common use cases of image rendering.

Prerequisites

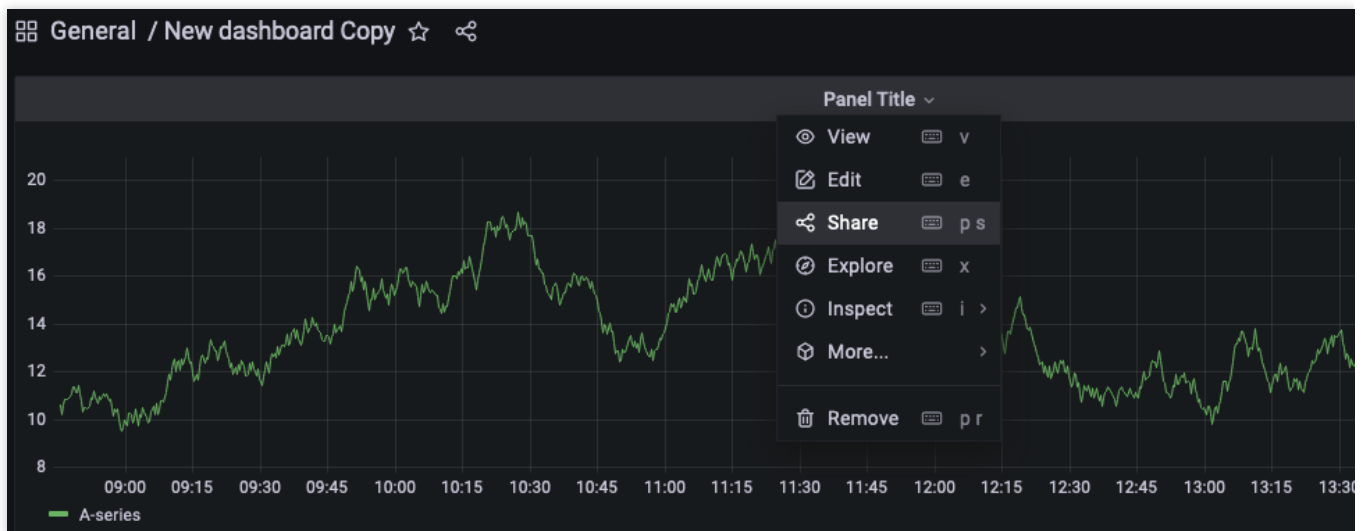
1. Log in to the [TCMG console](#).
2. In the instance list, find the target instance and click the **Grafana icon**



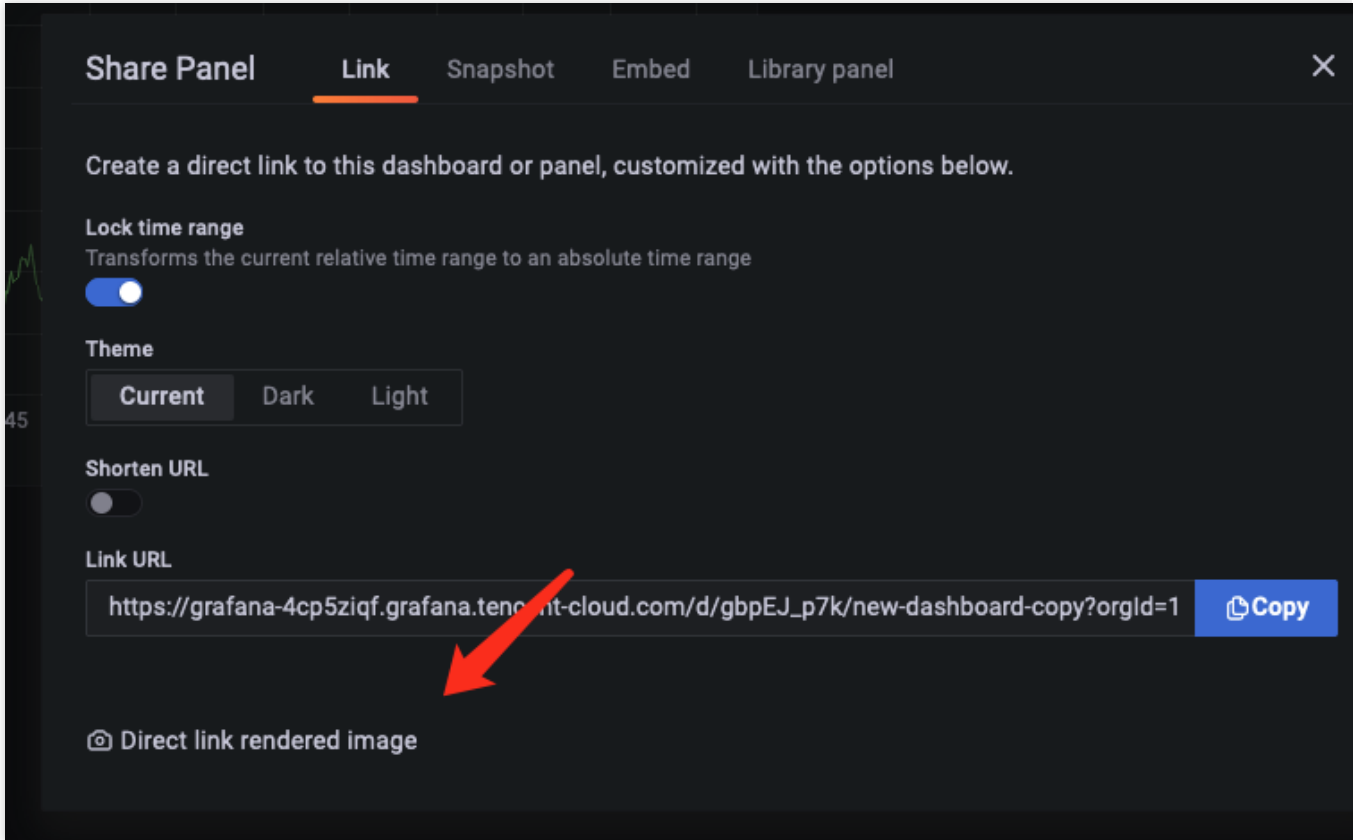
3. Enter your Grafana account and password and click any dashboard in Grafana.

Sharing Dashboard

1. On any dashboard, click **Title** and select **Share** in the pop-up window.



2. Click **Direct link rendered image** at the bottom of the pop-up window.

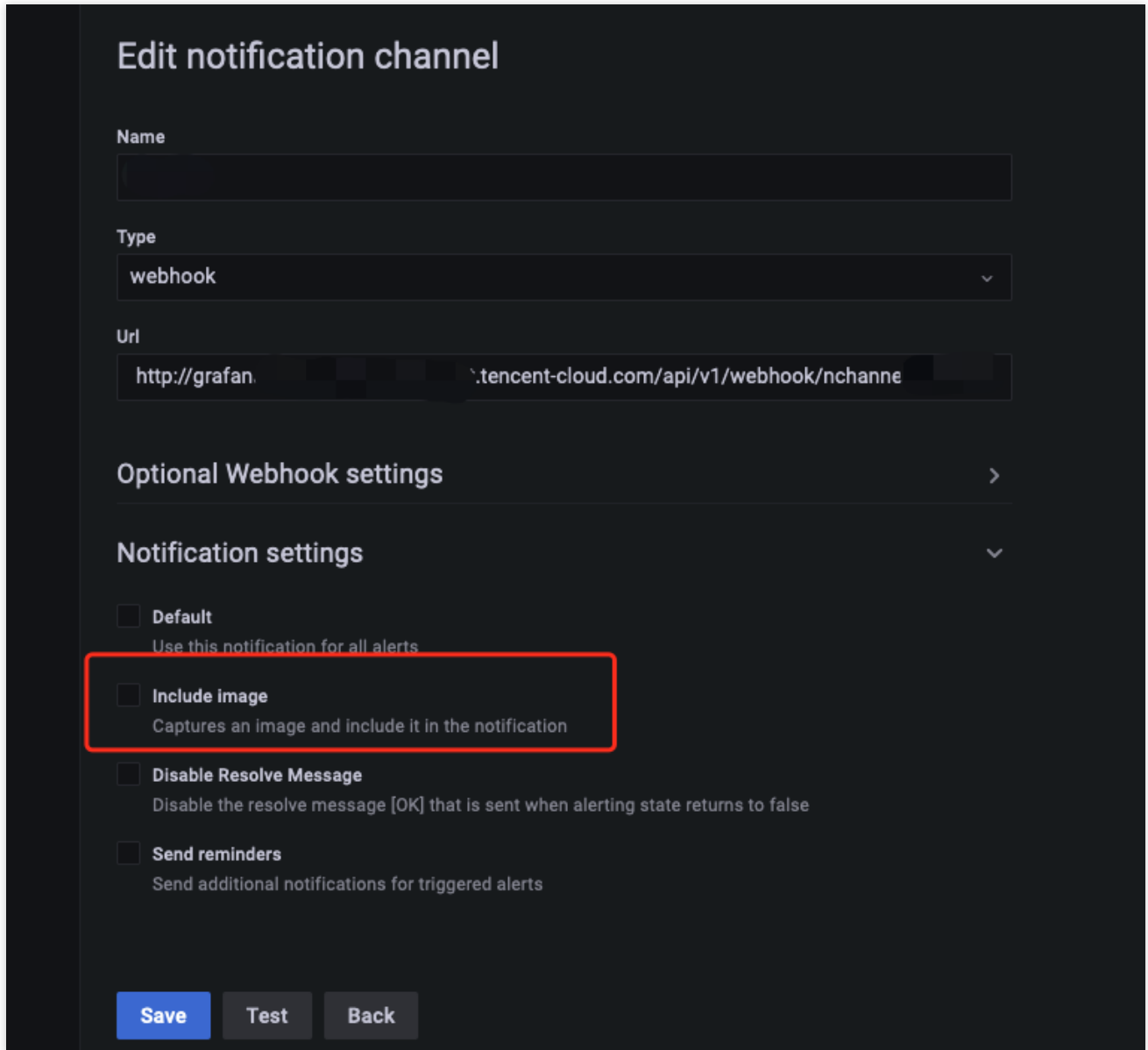


3. Get the address of the dashboard rendered as an image and share it.



Setting Alarm

Similarly, you can select **Include Image** in **Notification settings** to render the alert dashboard as an image as shown below:



The screenshot shows the 'Edit notification channel' configuration page. The 'Name' field is empty. The 'Type' is set to 'webhook'. The 'Url' is 'http://grafan. .tencent-cloud.com/api/v1/webhook/nchanne'. The 'Optional Webhook settings' section is collapsed. The 'Notification settings' section is expanded, showing several options: 'Default' (unchecked), 'Include image' (unchecked and highlighted with a red box), 'Disable Resolve Message' (unchecked), and 'Send reminders' (unchecked). At the bottom, there are 'Save', 'Test', and 'Back' buttons.

Note:

Remote image rendering is not supported for dashboards with data sources of the `Browser` type.

Account Management

Last updated : 2024-11-01 21:29:52

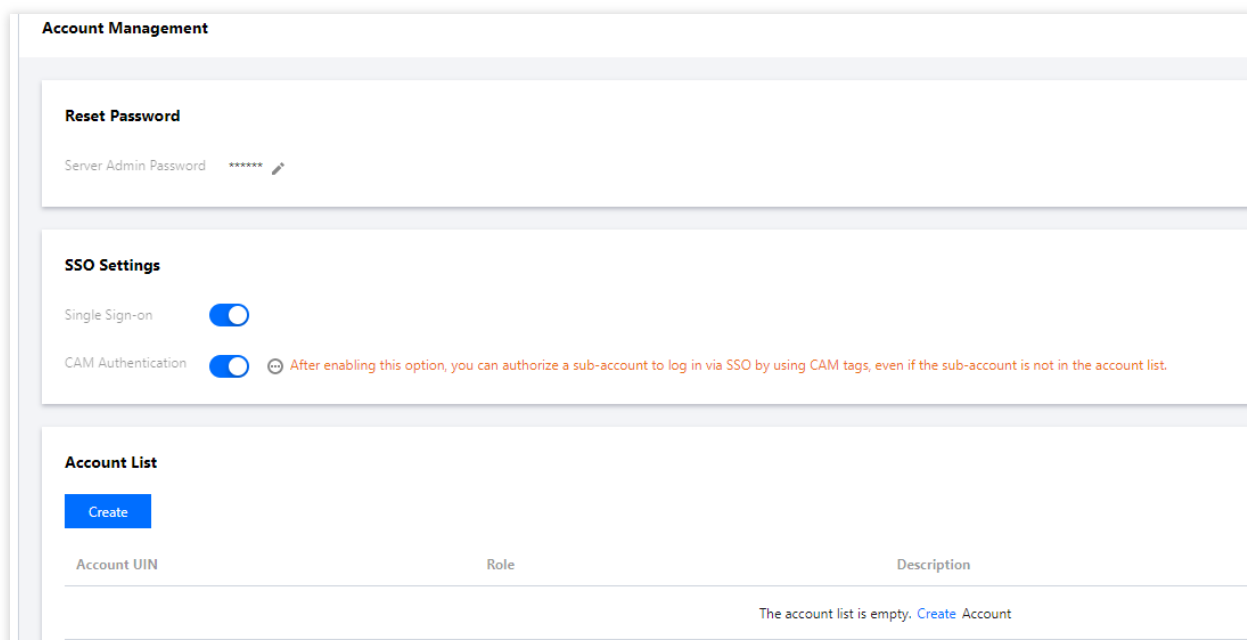
TencentCloud Managed Service for Grafana (TCMG) provides the account management feature that allows you to determine which users support single sign-on (SSO) login and manage their permissions.

Preparations

1. Log in to the [TCMG console](#).
2. Find the target instance and click **Instance ID**.

Directions

1. Enter the instance details page and click **Account Management** in the list on the left.



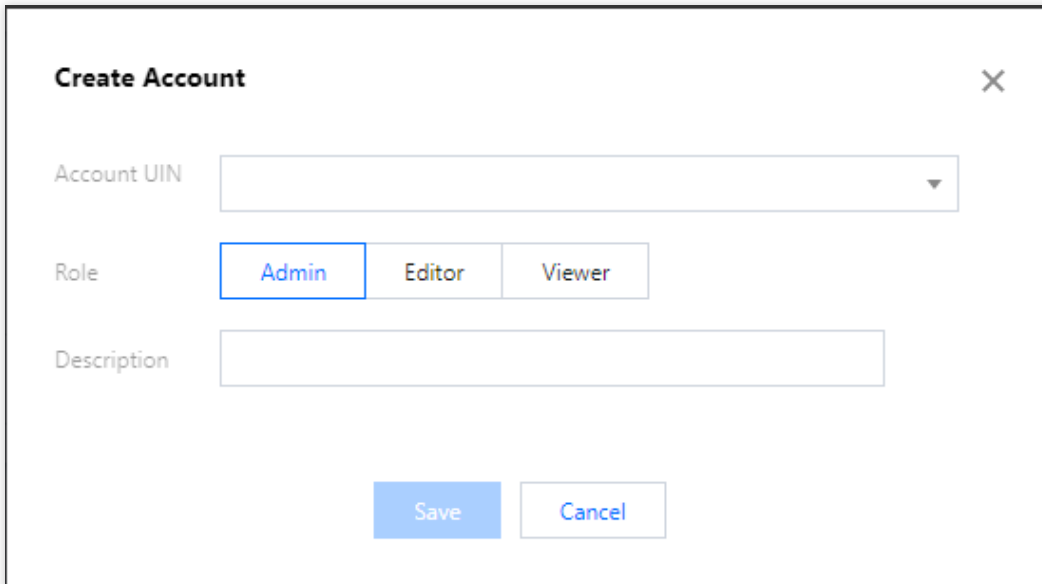
2. Make sure that **Single Sign-on** is enabled; otherwise, users can only log in to the instance with account ID and password.

If you want to authorize sub-accounts to log in via SSO by using CAM tags, enable **CAM Authentication**, after which unauthorized sub-accounts will be denied SSO login. You can go to the **Account List** module to control the permissions of sub-accounts that have successfully logged in via SSO.

If you want to allow unauthorized sub-accounts to log in via SSO, disable **CAM Authentication** and go to the **Account List** module to grant them the SSO login permission.

Account List

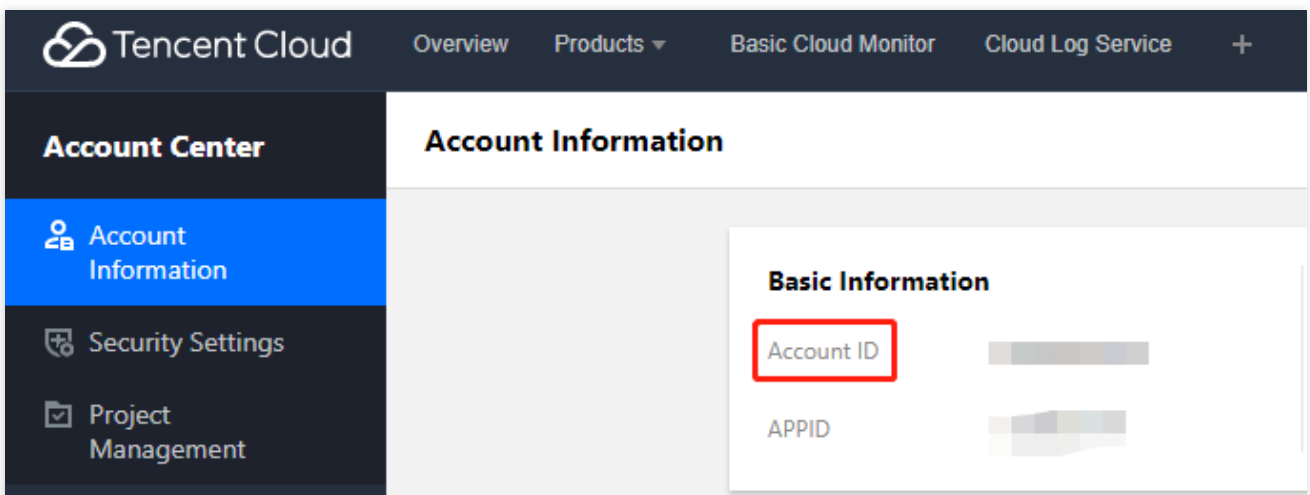
On the **Account Management** page, click **Create** in the **Account List** module, enter the account UIN, and select a role that defines the TCMG user's permission.



The screenshot shows a 'Create Account' dialog box with the following fields and options:

- Account UIN:** A text input field.
- Role:** Three buttons: 'Admin' (highlighted with a blue border), 'Editor', and 'Viewer'.
- Description:** A text input field.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom.

The account UIN here corresponds to the **Account ID** on the **Account Information** page in [Account Center](#).



FAQ

What should I do if I cannot log in via SSO?

1. Check whether your root account is the same as the instance's.
Currently, TCMG doesn't support cross-root account SSO login.
2. Check whether the configurations on the **Account Management** page are correct.

If **CAM Authentication** is enabled, a user's Tencent Cloud account will be authenticated by CAM, and only the authorized user can successfully log in via SSO. If the user account is in the account list on the **Account Management** page, permissions set in the list will apply.

If **CAM Authentication** is disabled, you can go to the **Account List** module to manage users who have the SSO login permission. Users in the account list can log in via SSO with the permissions they've been granted. Note that the account UIN corresponds to the **Account ID** on the **Account Information** page in the **Account Center** console.

FAQs

Last updated : 2024-11-08 16:34:22

What are the strengths of TCMG over self-built Grafana in the cloud?

TCMG is a native visualization solution offered by Tencent Cloud in collaboration with Grafana Lab. It is preconfigured with many Tencent Cloud data sources, utilizes SSO and network access control to enhance data security, and eliminates the workloads of setup, OPS, and upgrade.

Can TCMG be used with open-source and third-party plugins?

TCMG is fully compatible with open-source ecosystems, so you can use their capabilities.

What is the relationship between TCMG and Grafana Enterprise?

We currently manage open-source Grafana and will provide paid options for upgrade in the future, so that you can upgrade to Grafana Enterprise, connect to various data sources, such as GitLab, Honeycomb, MongoDB, New Relic, Salesforce, ServiceNow, and Snowflake, and get enterprise-grade capabilities such as scheduled reports.

How do I access data sources in my VPC from TCMG?

You can directly access data sources in the same VPC from TCMG without additional operations; for cross-VPC data access, you can use the peer connection feature of Tencent Cloud VPC.

Which Grafana data source plugins are supported?

Tencent Cloud data sources: CM, TMP, TKE, ES, and CLS.

Third-Party data sources: Alertmanager, Amazon CloudWatch, Azure Monitor, Elasticsearch, Google Cloud Monitoring, Graphite, InfluxDB, Loki, Microsoft SQL Server (MSSQL), MySQL, OpenTSDB, PostgreSQL, Prometheus, Jaeger, Zipkin, Tempo, and TestData.

What if TCMG is Unavailable in the Availability Zone?

You need to apply for a subnet in another region and create a new instance.

What if the TCMG Plugins Do not Display Before Being Authenticated?

Log in to [TCMG Console](#), click the corresponding **Instance Name > Configure > Edit**, and add the following parameters:

```
[plugins]
allow_loading_unsigned_plugins={plugin_id}
```

Does TCMG Support Access to Self-Built Prometheus via the Public Network?

If the Grafana instance resides in a VPC network that can access the public network, the self-built Prometheus can also be accessed via the public network. Simply bind the Grafana instance to the self-built Prometheus. Please refer to [Creating Custom Route Tables](#) to learn how to associate an NAT gateway with the subnet where the Grafana instance is located.