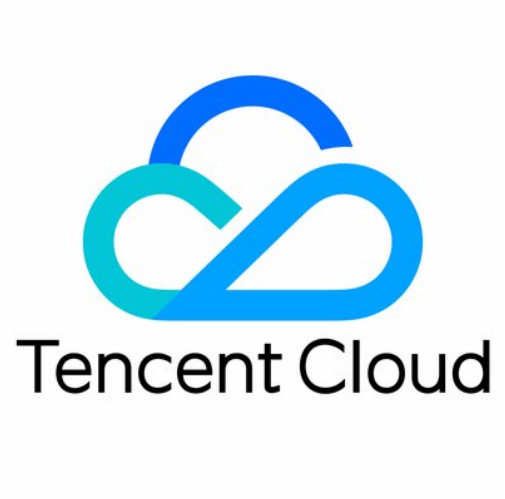
Serverless Cloud Function

Getting Started

Product Documentation



Contents

Getting Started
Creating Event Function in Console

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This document describes how to quickly create an event-triggered function in the console.
Compared with event-triggered functions, the HTTP-triggered functions provided by SCF focus more on optimizing web services. Click here to understand and quickly create an HTTP-triggered function.

Step 1. Sign up for a Tencent Cloud account

If you already have a Tencent Cloud account, ignore this step.

Step 2: Topping Up Online

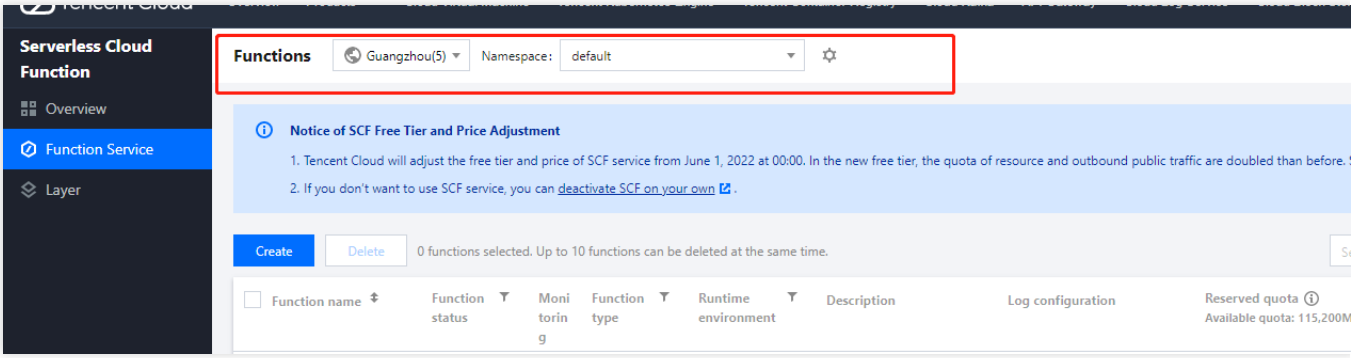
New SCF users are entitled to a certain monthly free tier of resource usage and invocations within three months of activation. SCF can be billed in a prepaid (subscription package) or postpaid (pay-as-you-go) manner. If you need to use other postpaid Tencent Cloud resources, top up your account first as instructed in Payment Methods before making purchases.

Step 3. Authorizing TKE

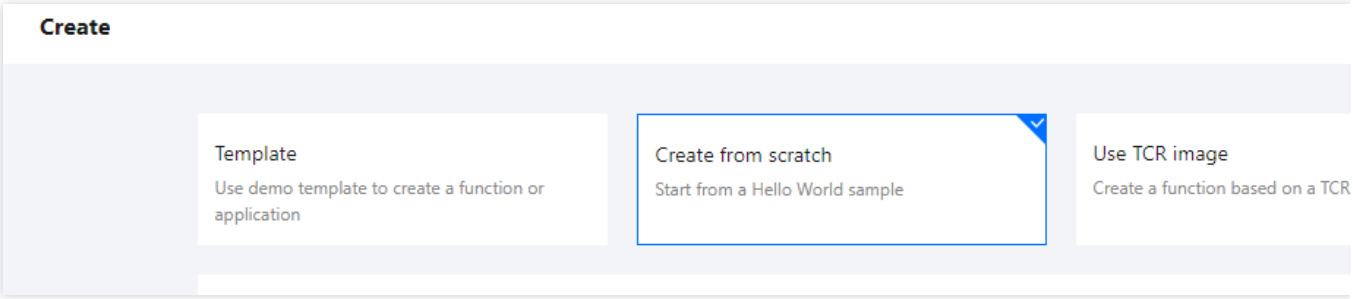
Log in to the Tencent Cloud console, select **Products** > **Serverless Cloud Function** to enter the SCF console, and follow the prompts to authorize SCF. (If you have already authorized SCF, skip this step.)

Step 4. Create a function

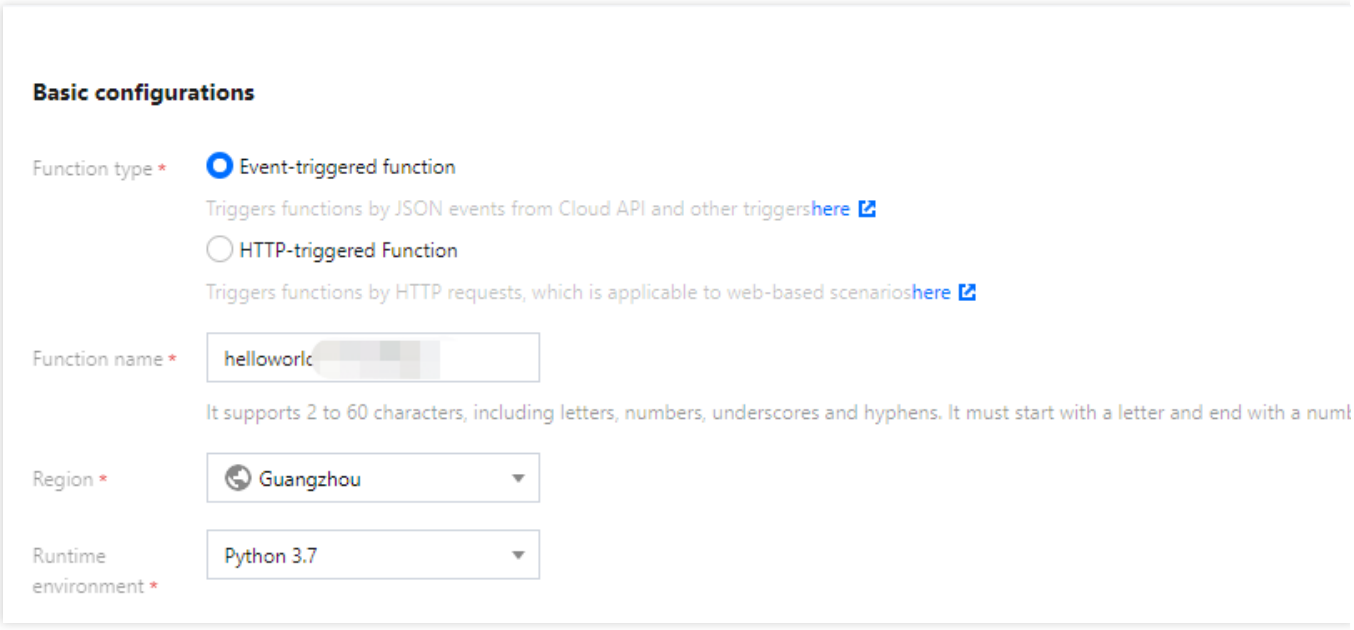
1. Click **Function Service** on the left sidebar to enter the **Function Service** page.
2. Select **Guangzhou** at the top of the page and click **Create** as shown below:



3. On the **Create function** page, select **Create from scratch** as shown below:



4. Configure the basic information of the function as shown below:



Function type: Select **Event-triggered function**.

Function name: The function name is automatically populated by default and can be modified as needed.

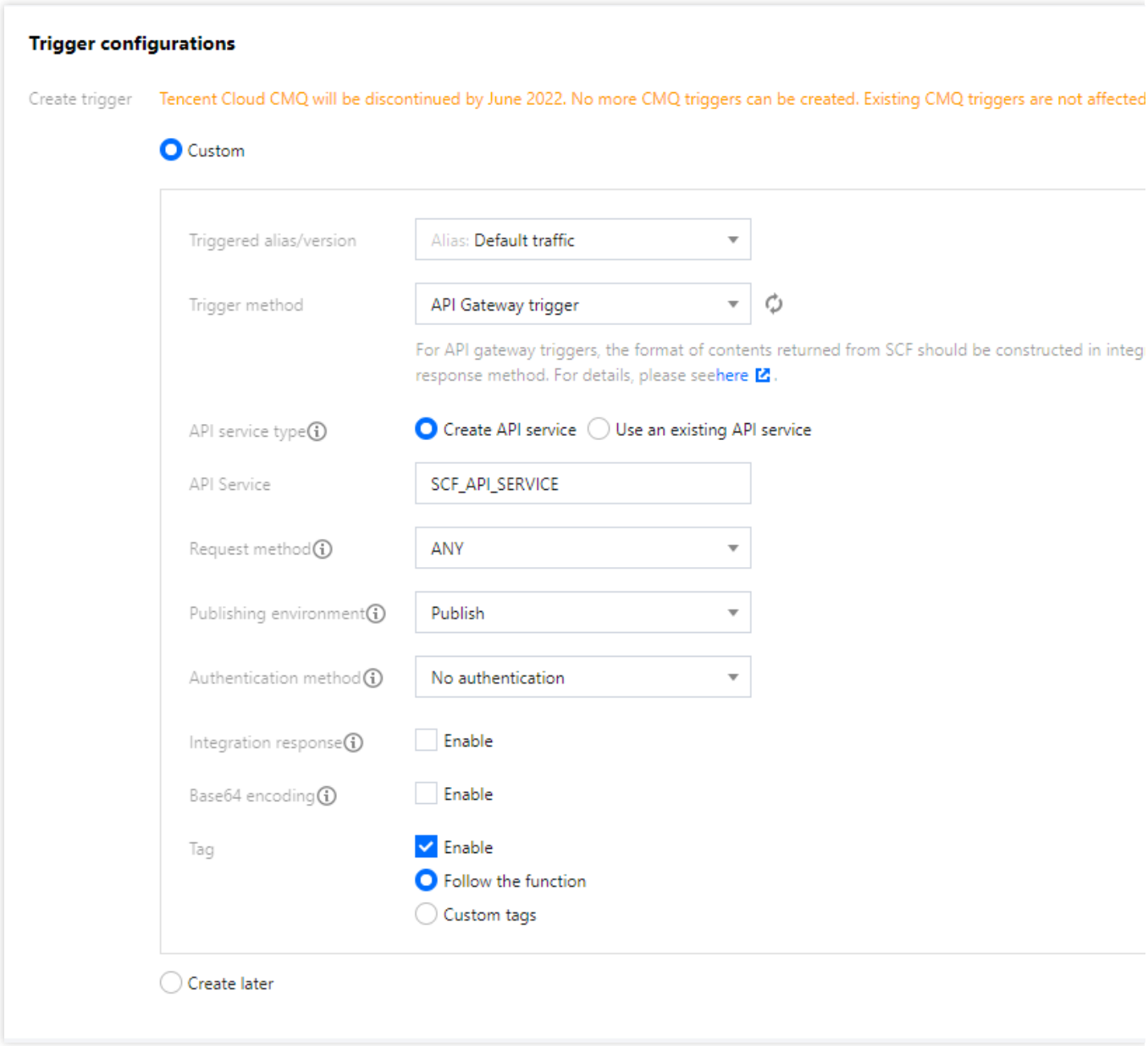
Region: The region is automatically populated by default and can be modified as needed.

Runtime environment: **Python 3.7** is automatically populated by default and can be modified as needed.

Time zone: SCF uses the UTC time by default, which you can modify by configuring the `TZ` environment variable. After you select a time zone, the `TZ` environment variable corresponding to the time zone will be added automatically.

5. Keep the default options for **Function codes**, **Log configuration**, and **Advanced configuration**.

6. Select **Create trigger** > **Custom** to create a trigger as shown below:



Trigger method: Select **API Gateway trigger**.

Integration Response: Deselect **Enable integration response**.

Keep the default options for other parameter.

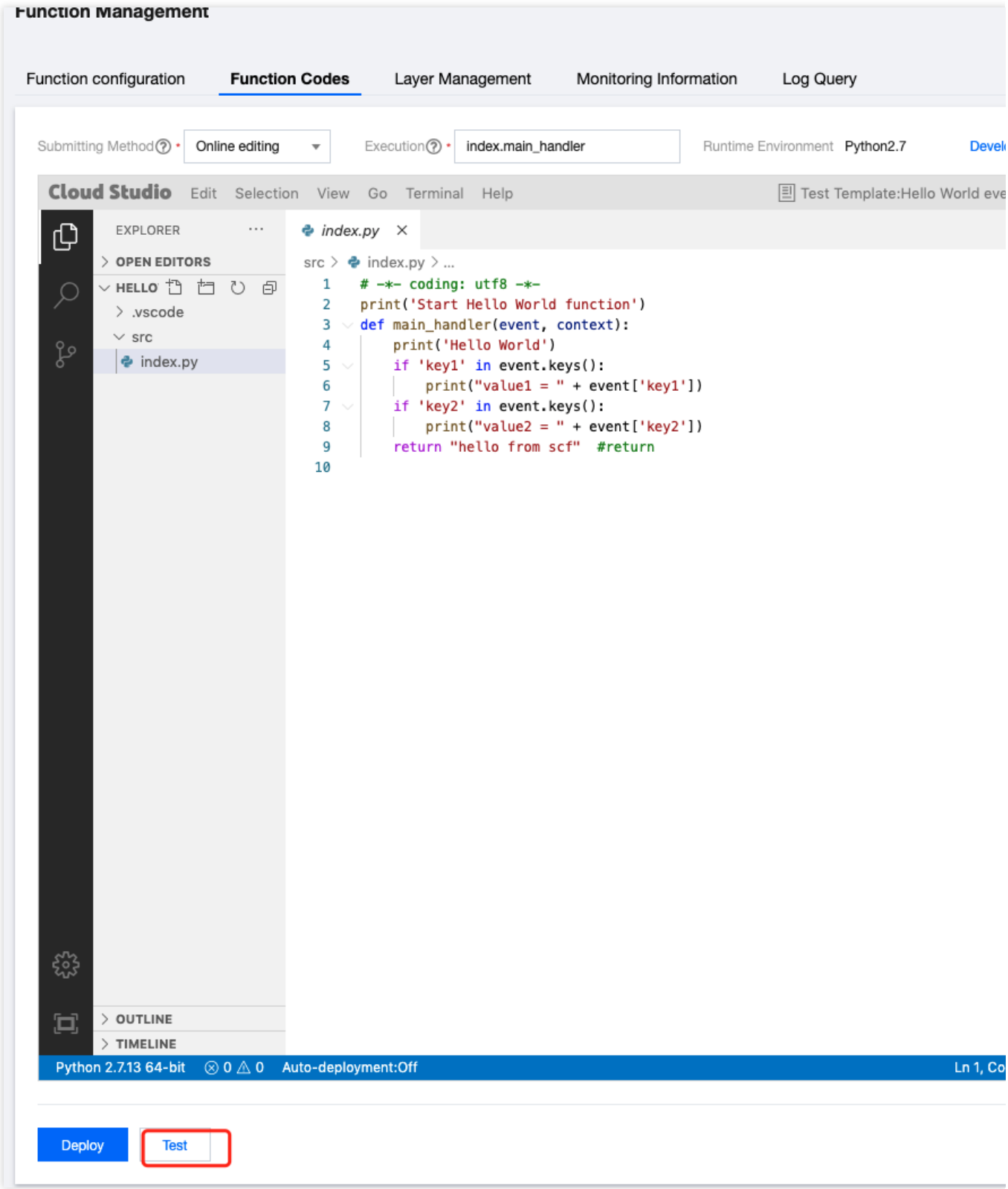
7. Click **Complete**. You can view the created function on the Functions page.

Step 5. Test in the cloud

Function deployment test

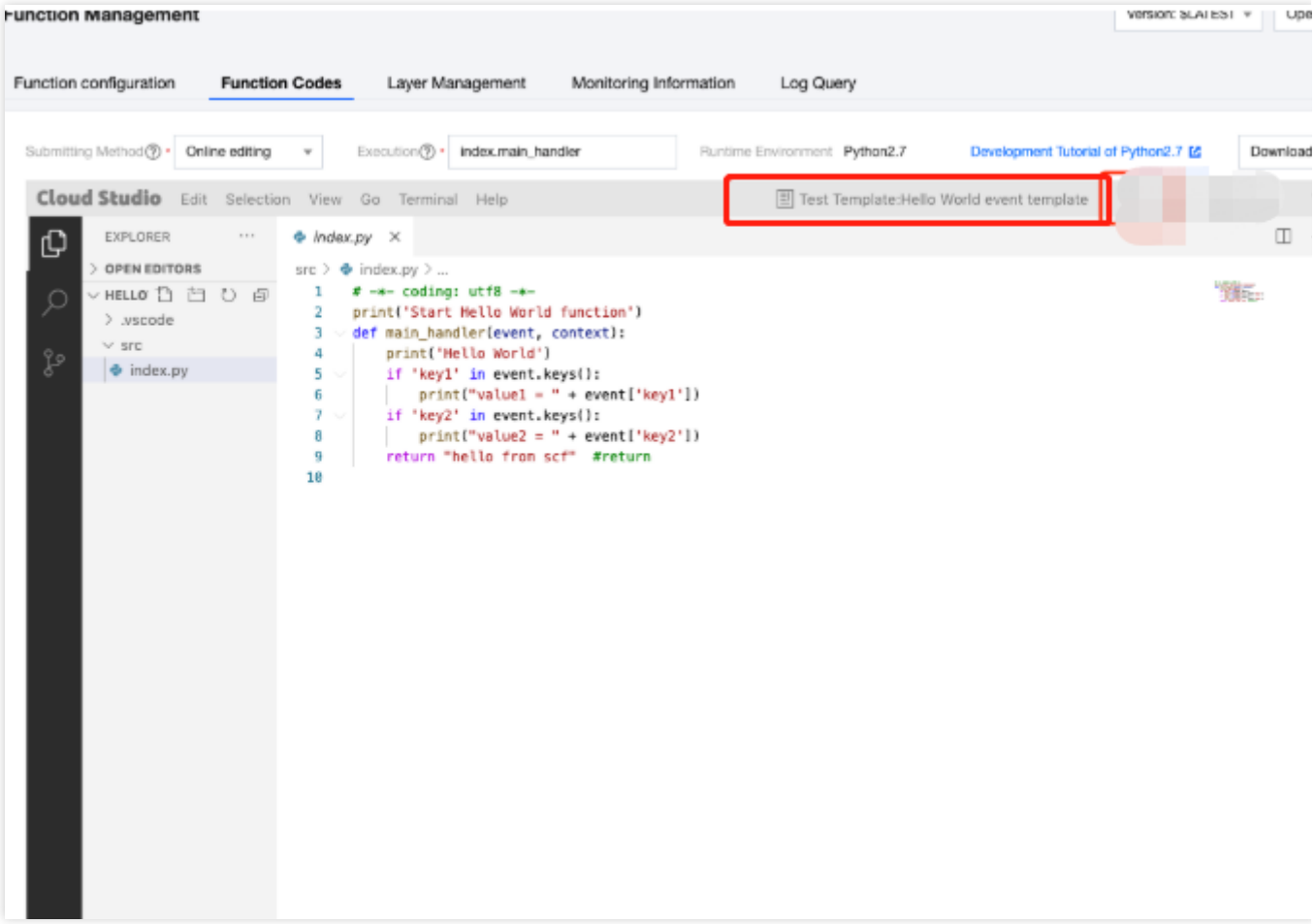
Trigger configuration test

On the **Function Management** page, select **Function code** and click **Test** to run the code with the test result returned as shown below:



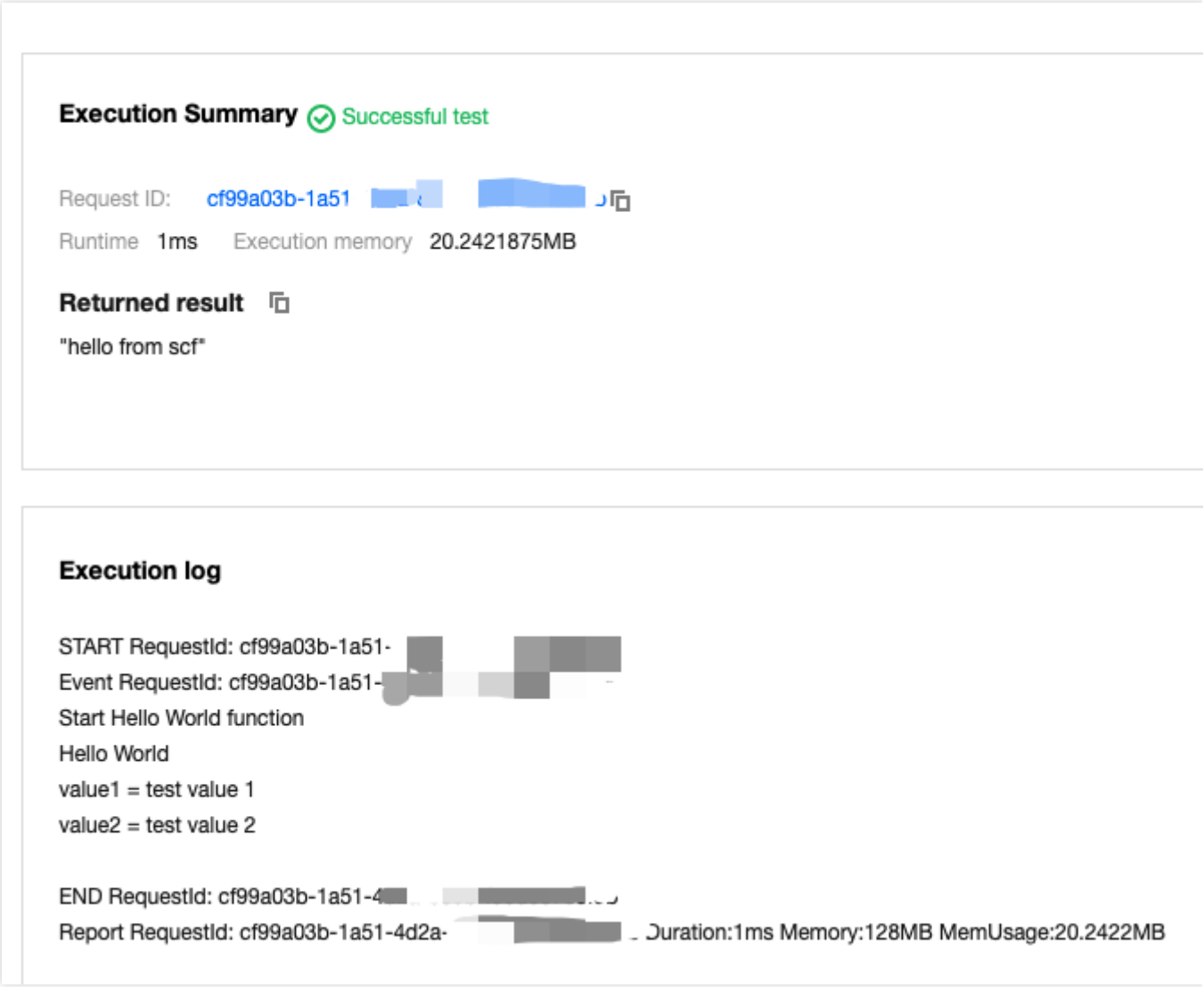
Note:

If you need to replace the test template or its content, you can directly edit the function content or select **Current test template**, replace it, and then click **Save** as shown below:



Different test templates simulate different trigger message sources, and the messages passed between different triggers and SCF are data structures agreed upon in advance. For more information, see Trigger Overview.

The following information will appear:

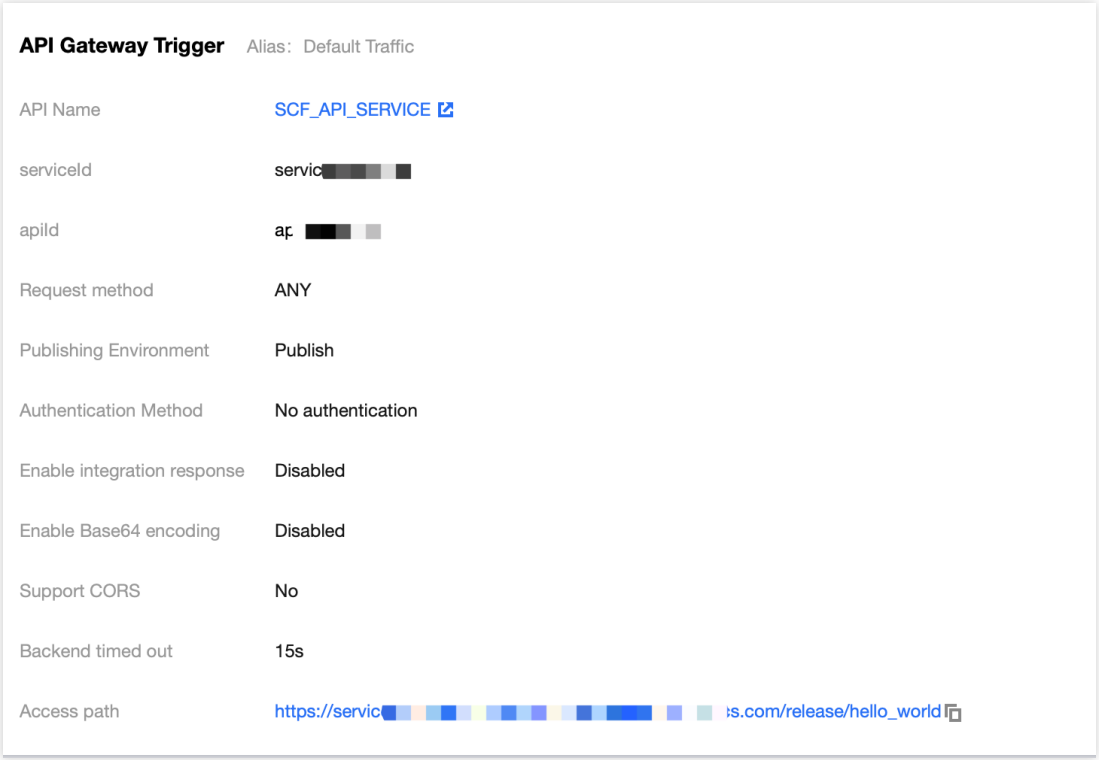


During this test, SCF will get the data structures of the "Hello World event template" in the `event` parameter of the `main_handler`.

```
{
  "key1": "test value 1",
  "key2": "test value 2"
}
```

On the **Trigger Management** page, view the trigger details.

1. After a trigger is successfully created, an access path will be generated on the **Trigger management** page of the function as shown below:



2. Open the access path in a browser. If "Hello World" is displayed, the function is successfully deployed.

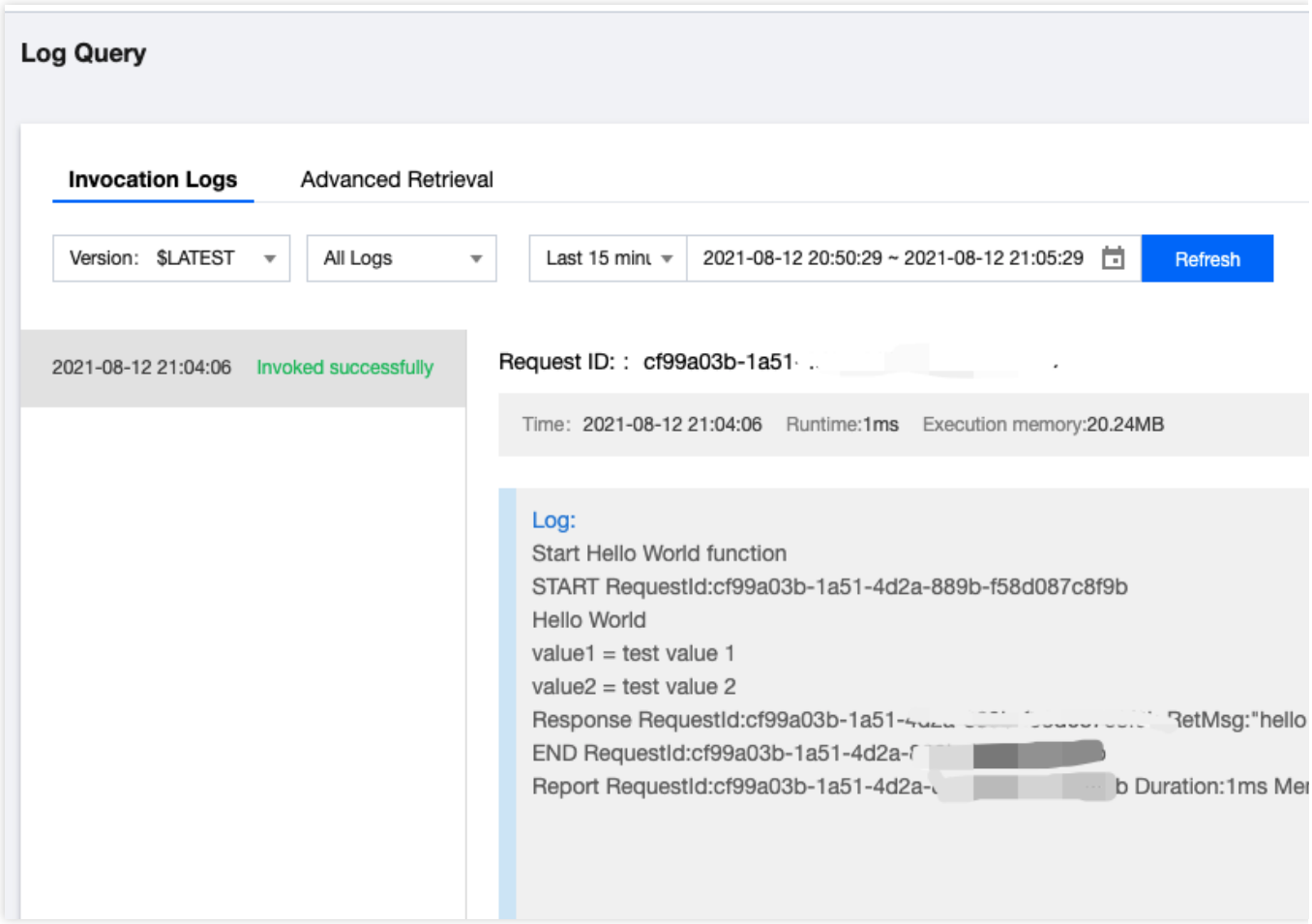
Step 6. View logs and monitoring data

View logs

View monitoring data

Configure alarms

On the details page of a created function, select **Log Query** on the left to view the detailed logs of the function as shown below:

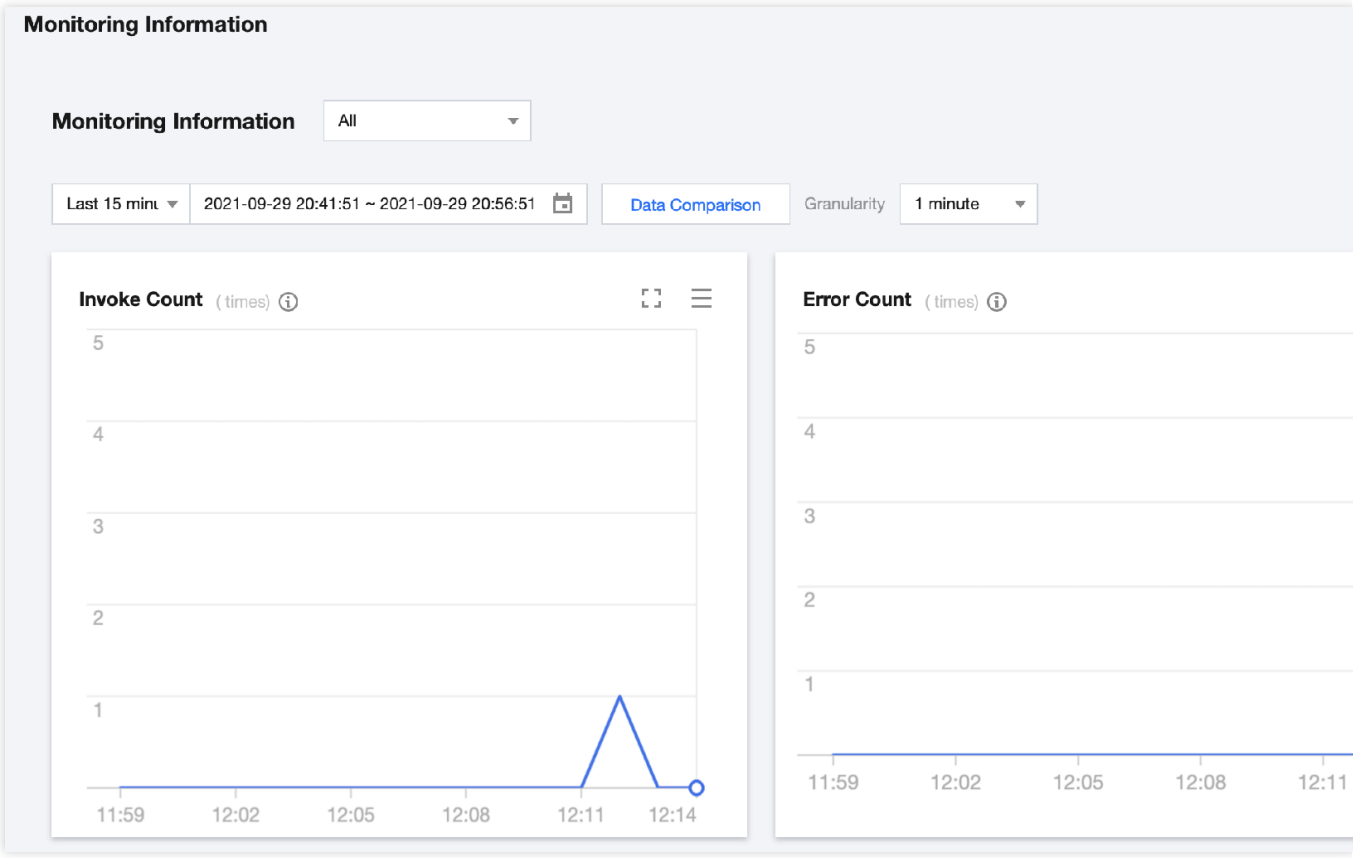


For more information on logs, see Viewing Execution Logs.

On the **Function Management** page, select **Monitoring information** of the created function to view metrics such as function invocations and execution duration as shown below:

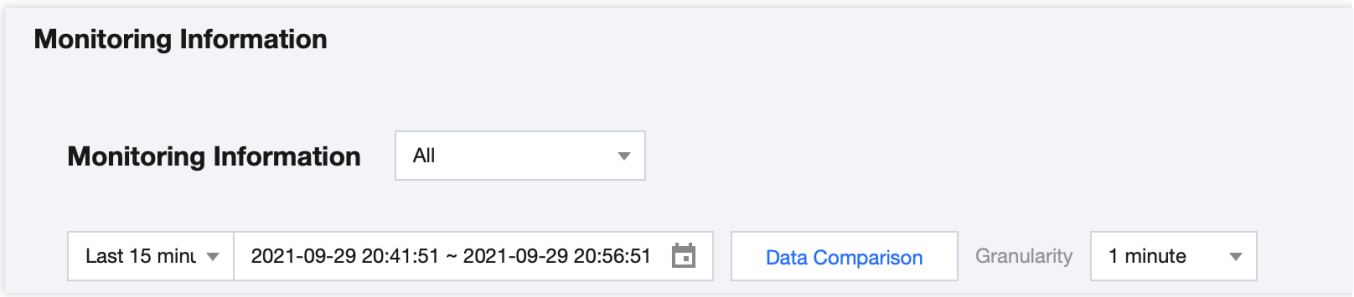
Note:

The minimal granularity of monitoring statistics collection is 1 minute. You need to wait for 1 minute before you can view the current monitoring record.



For more information on monitoring, see Descriptions of monitoring metrics.

On the details page of a created function, click **click here** to configure an alarm policy for the function to monitor its running status as shown below:

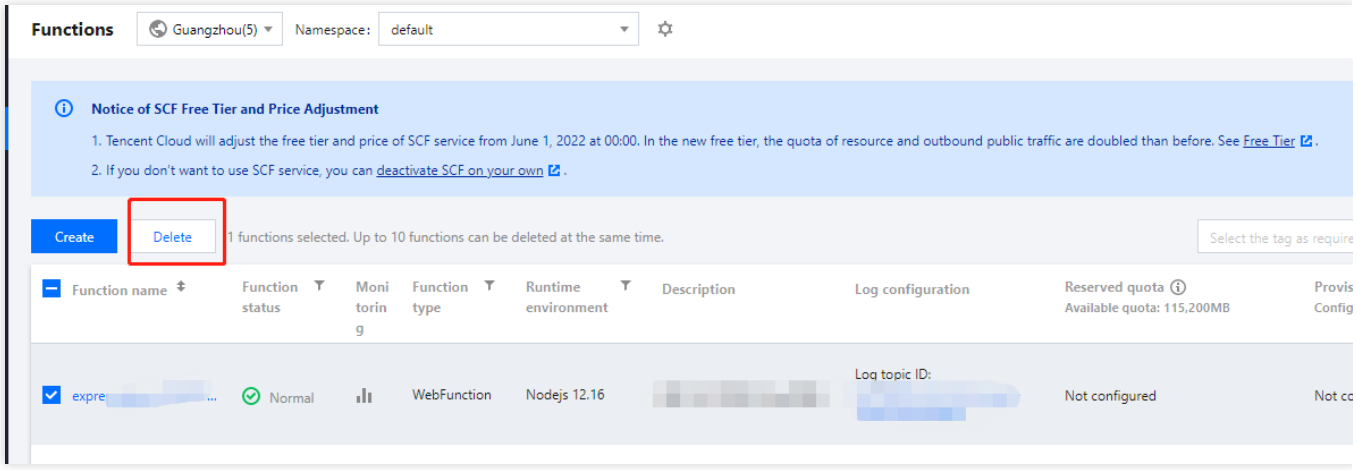


For more information on how to configure an alarm, see Configuring Alarms.

Step 7. Delete the function

After the function starts running, it consumes resources. In order to avoid unnecessary fees, this step shows you how to clear all resources.

1. Select **Functions** on the left sidebar, select the function to be deleted, and click **Delete** as shown below:



2. Confirm the information in the **Delete Function** pop-up window and click **OK**.

FAQs

See General for solutions.

If the problem persists, submit a ticket for assistance.

Creating Function with Serverless Cloud Framework

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Scenario

This document describes how to use the SCF component provided by Serverless Cloud Framework to create and deploy an SCF project. For more information, see Components Overview.

Prerequisites

Install Serverless Cloud Framework. For more information, see Installation.
Your account has the Serverless Framework permissions. For more information, see Permission Management.

Directions

Creating a function

Run the following command to create a function in the Node.js language:

```
scf init scf-nodejs --name example
```

Note:
`scf-nodejs` in the command can be replaced with a template for another programming language. SCF supports the following components: `scf-golang` , `scf-nodejs` , `scf-php` , and `scf-python` .

Deploying the function

Run the following command in the `scf-demo` directory to deploy the function:

```
scf deploy
```

A QR code will pop up. Please scan it to authorize and start deployment. After successful deployment, SCF resources will be automatically created.

Note:
If authentication fails, authorize as instructed in Account and Permission Configuration.

View function information

Run the following command to view the information of the deployed SCF resources:

```
scf info
```

Removing function

Run the following command to remove the deployed SCF resources:

```
scf remove
```

Relevant Features

To use Serverless Cloud Framework to manipulate SCF functions, see **Serverless Cloud Framework Overview**.
Serverless Web IDE is a browser-based integrated development environment. It delivers an on-cloud development experience comparable to native IDEs. For more information on its features for SCF, see Serverless Web IDE.
The SCF SDK integrates function business flow APIs, which simplifies the invocation of functions. For more information on its feature for functions, see SDK for Python and Node.js SDK.