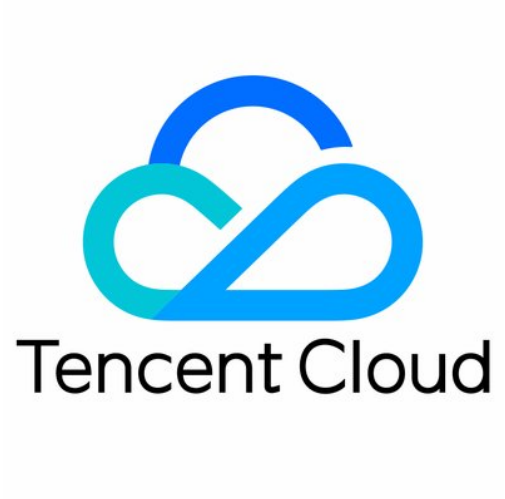
API Gateway

Getting Started

Product Documentation



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Step 1. Get the Access Permission

Last updated：2024-01-03 10:03:44

Overview

To activate the API Gateway service, you need to use resources in other Tencent Cloud services. Therefore, you must authorize API Gateway to access your Tencent Cloud resources.

Prerequisites

You have registered a Tencent Cloud account and completed identity verification.

Note:

After you register a Tencent Cloud account, the system will create a root account for you by default, which is used to quickly access Tencent Cloud resources.

Directions

1. When you log in to the API Gateway console with the **root account** for the first time, you need to click **Activate Now** on the console overview page to activate the API Gateway service.
2. Since API Gateway hasn't been granted a service role, it cannot access the resources of other Tencent Cloud services. You need to click **Authorize** to enter the CAM console for authorization.
3. Click **Agree** to authorize the API Gateway service to access your resources.

Note:

For more information on how to use API Gateway with a sub-account or collaborator, see Permission Management.

Step 2. Create a Service

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Overview

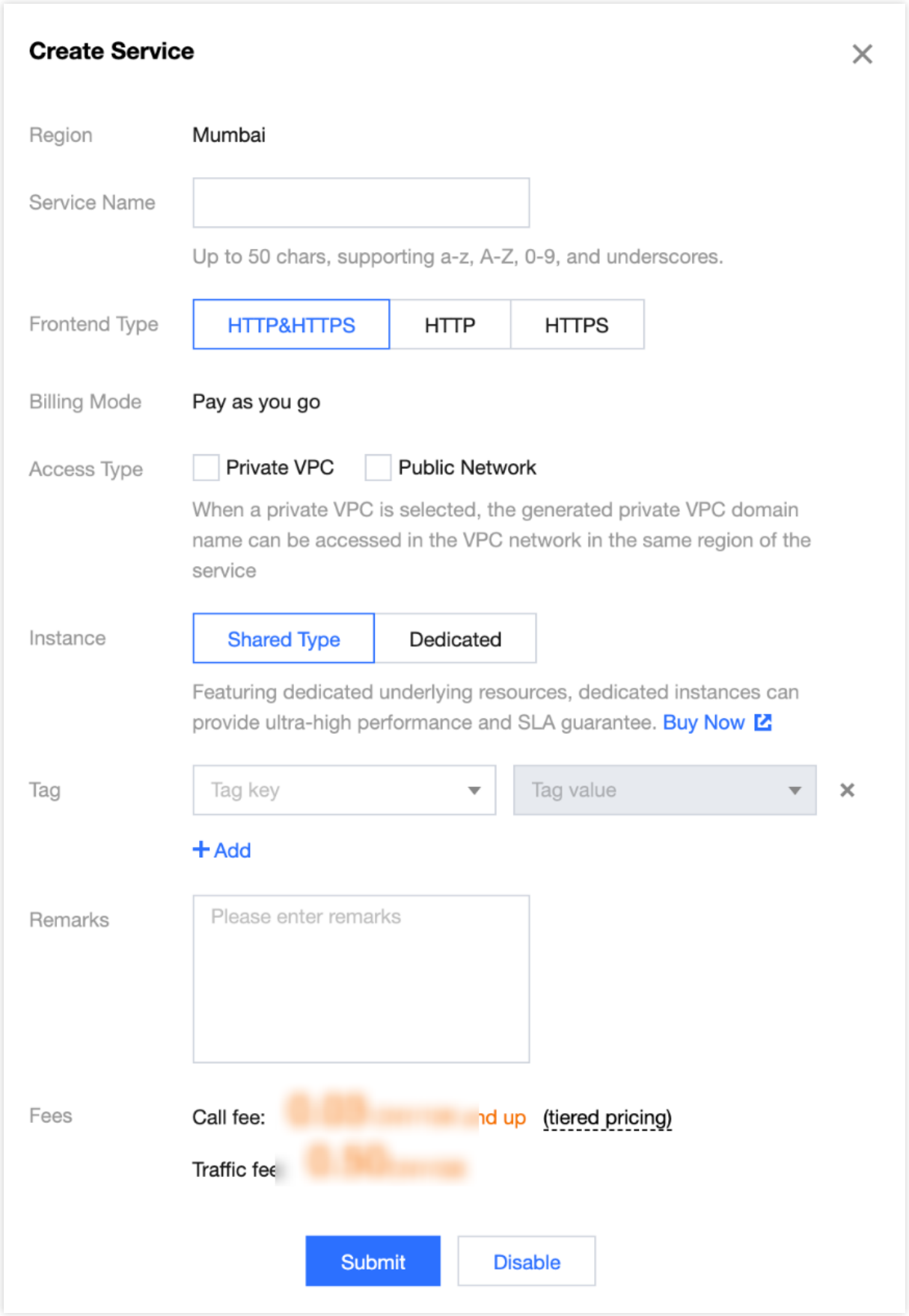
Generally, certain features are implemented through a group of correlated APIs. The service management module of API Gateway helps you manage such APIs in an efficient and convenient way. This document describes how to create a service in the API Gateway console.

Prerequisites

You have obtained the access permission.

Directions

1. Log in to the API Gateway console.
2. On the left sidebar, click **Service** to enter the service list page.
3. Click **Create** and enter the service information.



Service Name: it is required and can contain up to 50 letters, digits, and underscores. **exampleservice** is entered here as an example.
Instance Type: for the differences between the two instance types, see Instance Specification. **Shared** is selected here as an example.
Remarks: remarks of the service. **Test** is entered here as an example.
Frontend Type: protocol type supported by the service. **HTTP&HTTPS** is selected here as an example.
Access Mode: when you select VPC, the generated VPC domain name can be accessed in VPCs in the same region as the service.
Tag: it is optional and makes it easier to categorize and manage resources.
4. Click **Submit** to create the service.

Step 3. Create an API with Mock as the Backend Type

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Overview

This document describes how to create an API connecting to Mock on the backend under a created service in the API Gateway console.

Caution:

If the API connects to Mock in the backend, only fixed data can be returned. Therefore, we recommend you use Mock for testings but not in actual business scenarios.

Prerequisites

You have created a service.

Directions

1. In the service list, click a service name to enter the API list page.
2. On the **General API** tab, select **Create** and enter the API's frontend configuration information.

API Name: name of an API. **exampleapi** is entered here as an example.

Frontend Type: HTTP and WebSocket are supported. **HTTP** is selected here as an example.

Path: access path of the API. / is entered here as an example.

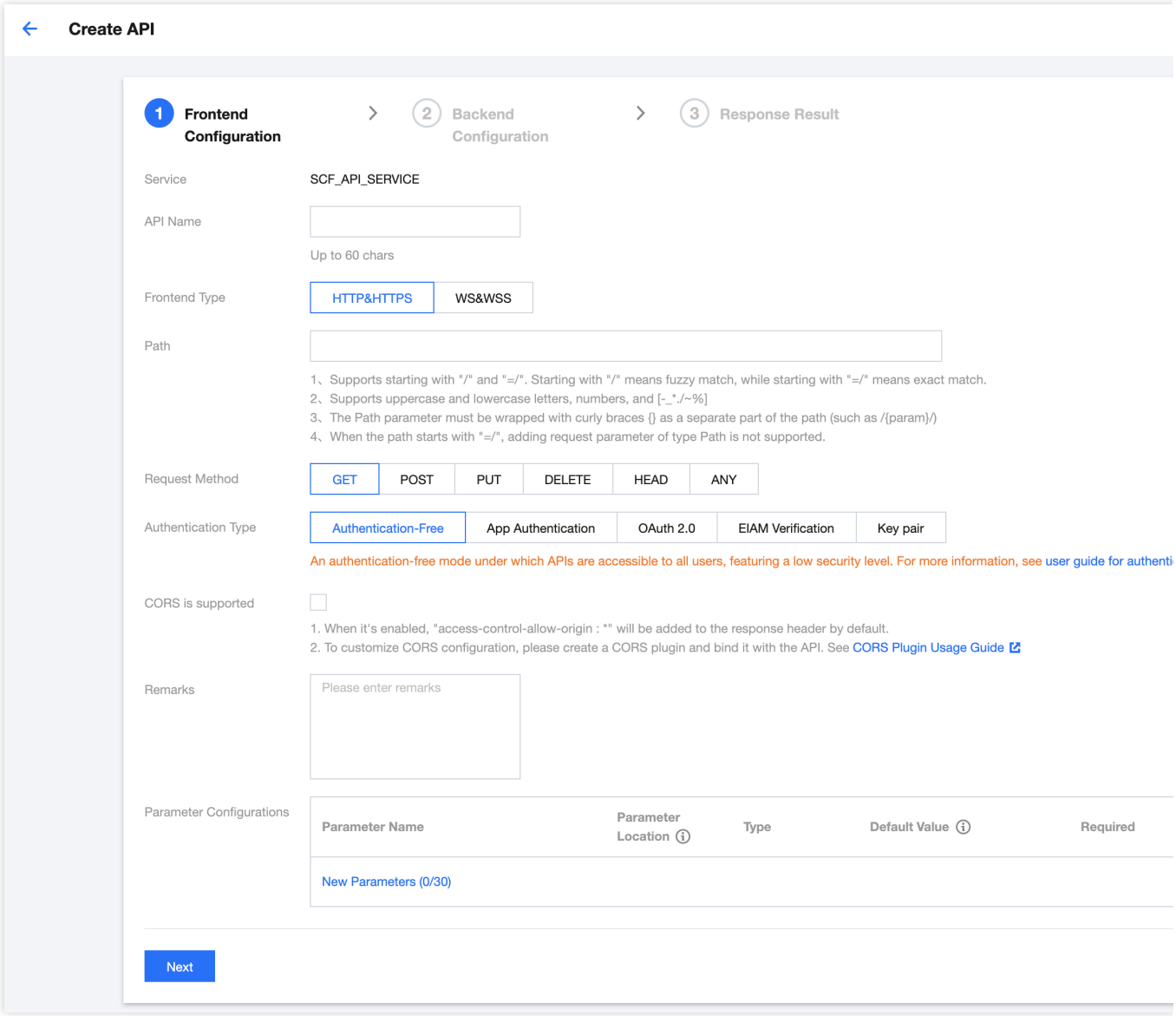
Request Method: request method of the API. **GET** is selected here as an example.

Authentication Type: authentication type of the API. **No authentication** is selected here as an example.

CORS Support: whether the API supports cross-origin resource sharing. **Yes** is selected here as an example.

Remarks: remarks of the API. **Test** is entered here as an example.

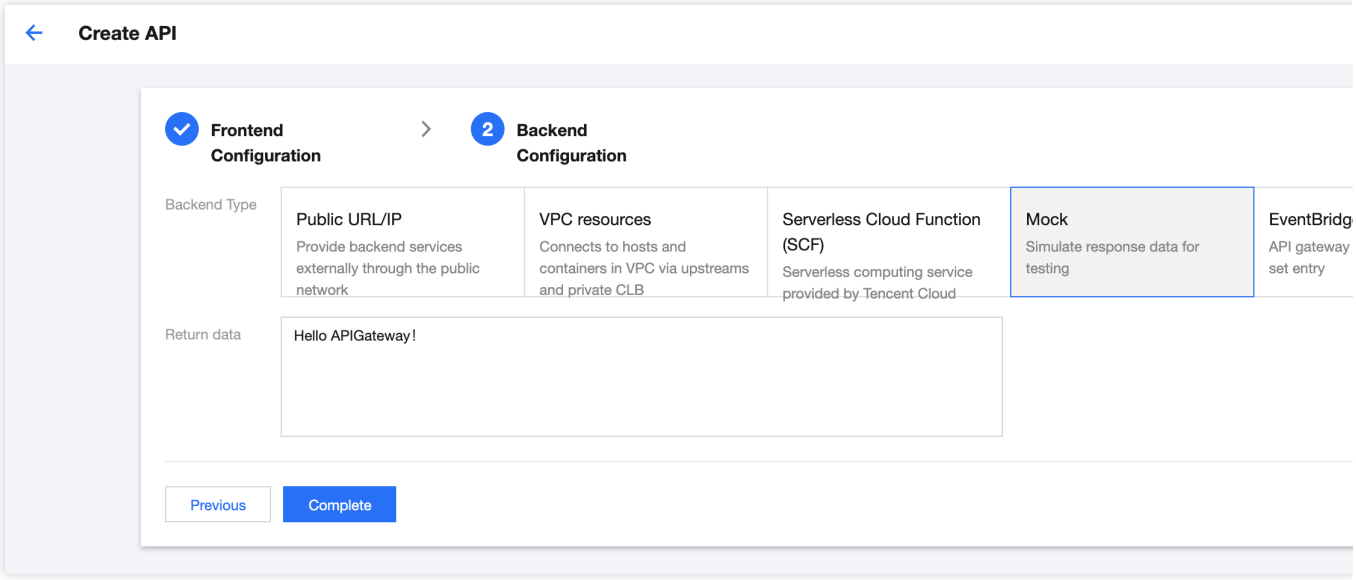
Parameter Configuration: frontend parameters of the API. Nothing is entered here.



3. Click **Next** and enter the backend configuration information of the API.

Backend Type: type of the backend service of the API. **Mock** is selected here as an example.

Returned Data: data to be returned by Mock. **hello world, hello apigateway** is entered here as an example.



4. Click **Complete**.

Step 4. Publish the Service

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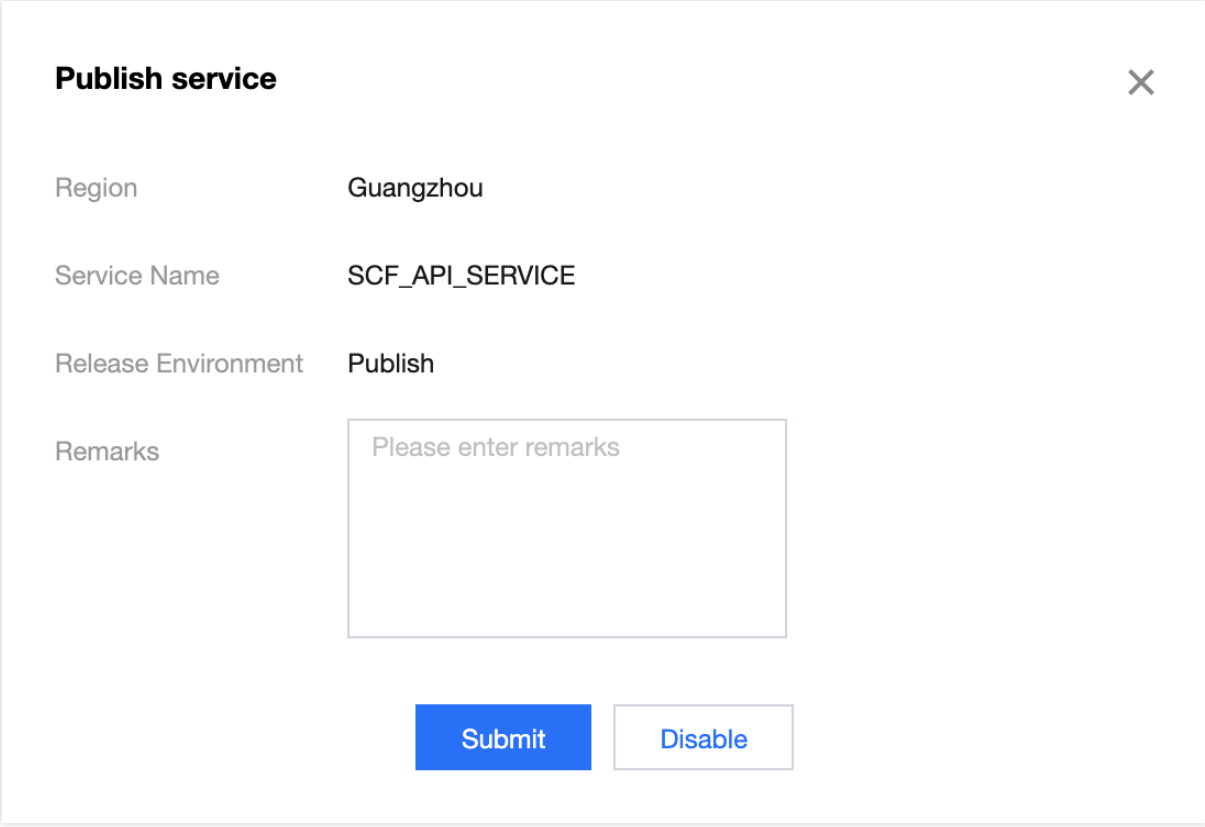
Overview

A created service is in unpublished status by default and can be normally accessed only after it is published. You can publish it after configuring the service API.

Directions

1. Find the service just created on the service list page, click **Publish** in the **Operation** column, and enter the service release information.
Environment: environment in which the service is published. The release environment is selected here.
Remarks: remarks of the service release. **Release for testing** is entered here as an example.



2. Click **Submit** to publish the service.
3. After the service is published, you can access the API at the sub-domain name provided by the service.

Step 5. Create a Plugin and Bind It to the API

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Overview

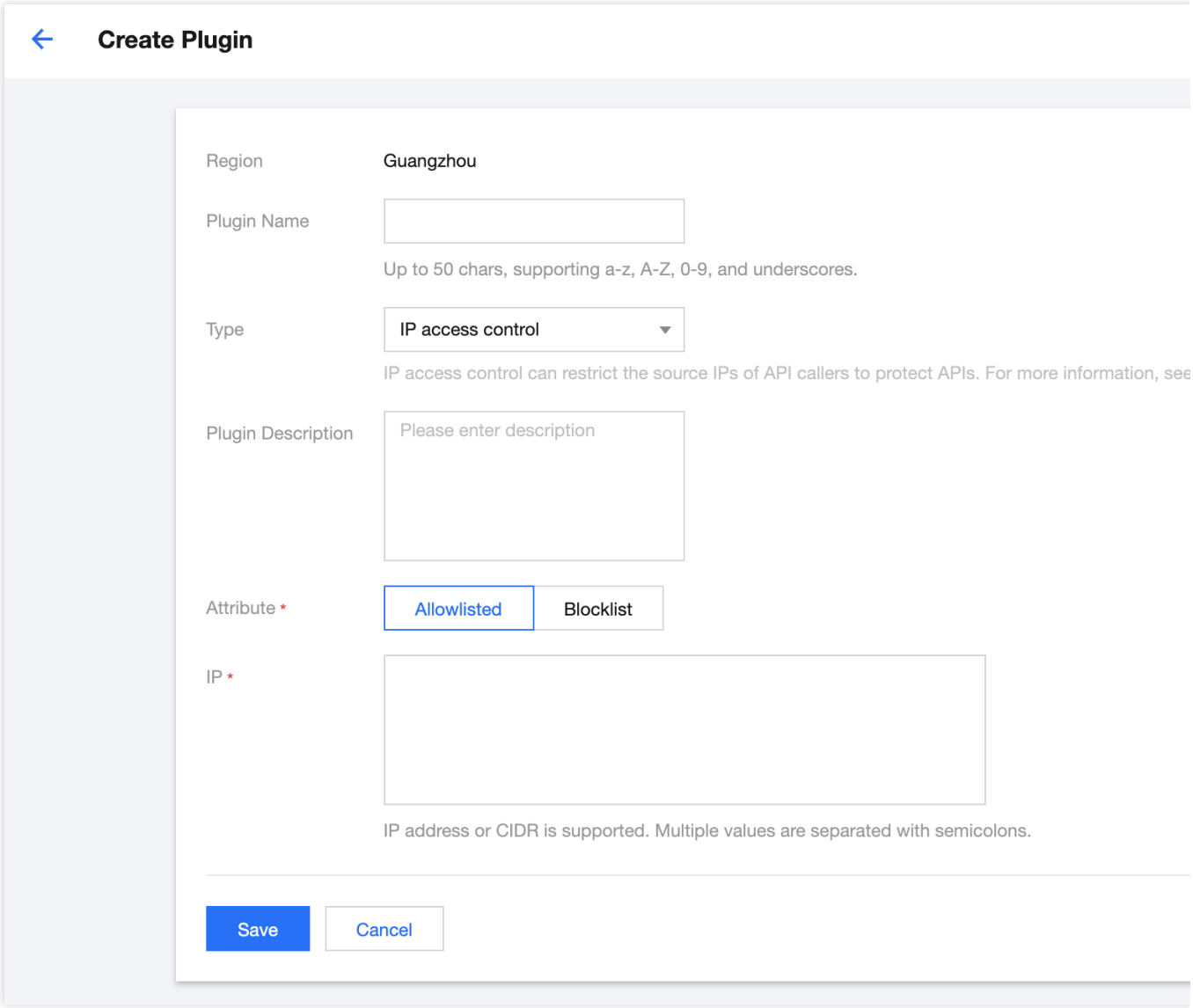
This document describes how to create a plugin and bind it to a created API in the API Gateway console.

Prerequisites

You have created an API.

Directions

1. In the API Gateway console, select **Plugin** > **System Plugin** on the left sidebar.
2. Click **Create** and enter the plugin information.



Plugin Name: it can contain up to 50 letters, digits, and underscores. **exampleplugin** is entered here as an example.

Type: select **IP access control**.

Plugin Description: description of the plugin. **Test** is entered here as an example.

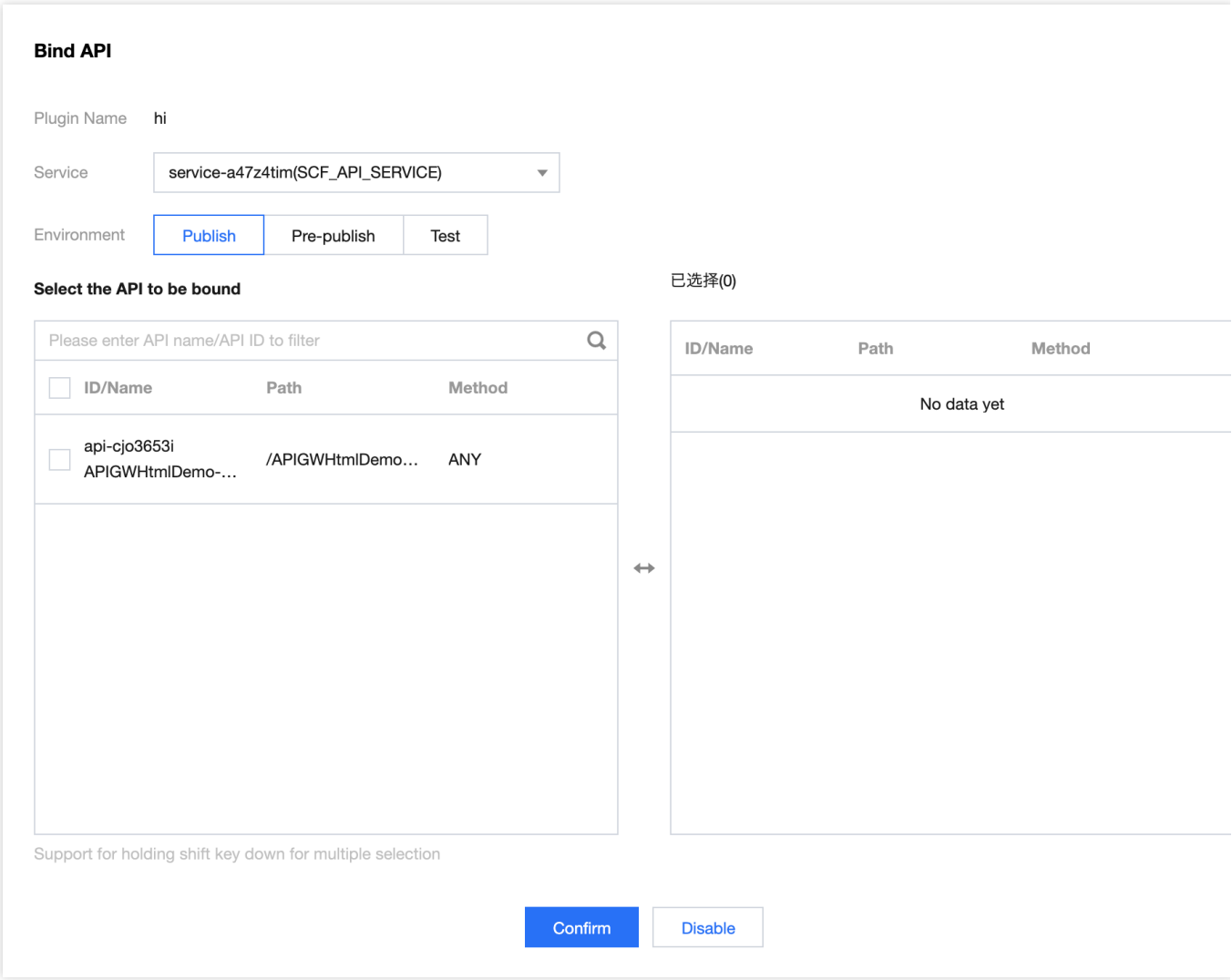
Attribute: blocklist or allowlist. **Allowlist** is selected here as an example.

IP: enter the IP address or CIDR block that can access the API.

Tag: it is optional and makes it easier to categorize and manage resources.

3. Click **Save**.

4. On the plugin list page, click **Bind API** in the **Operation** column of the just created plugin.



Service: select the just created **exampleservice** service.

Select Environment: select **Release**.

Select APIs to bind: select the just created **exampleapi** API.

5. Click **OK**.

Step 6. Debug the API

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Overview

The API debugging page allows you to verify the correctness of an API immediately after completing its configuration by initiating a simulated API call and viewing the specific request response. If the API fails to work as expected, you can modify the configuration according to the response to make it meet your design expectations.

Prerequisites

You have created an API .

Directions

1. Find the API just created in step 3 on the API list page and click **Debug** in the **Operation** column to enter the API debugging page.
2. Select `application/x-www-form-urlencoded` as the `Content-Type` .
3. Click **Send Request** and view the result returned after debugging.