Set Postman Environment and Call API Operations

Version: 20210719

Online Version

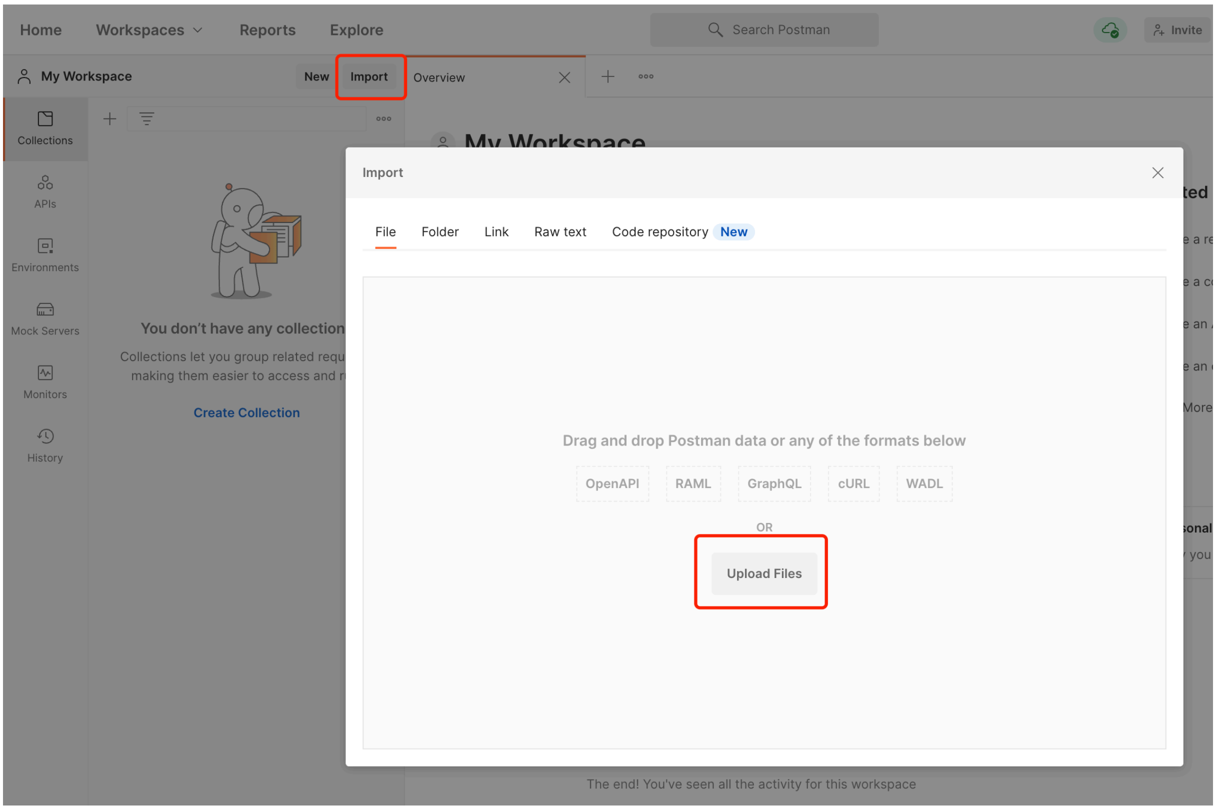
Contents

The Cloud Development Platform provides API Explorer for you to debug the APIs quickly. Also, you can use Postman to make API requests. For example, Postman can be used to get device information or control devices. This topic describes how to set the Postman environment variables that are used in the API operations of the Cloud Development Platform. It also describes the procedure to call these API operations.

1 Configure environment

1. Install Postman `v8.2.2` or later.
2. Click **Workspace** in the top-left corner of the page to select a workspace, and choose **Import** > **Upload Files** to import the Tuya Cloud API Package and Tuya Cloud API Environment Package.

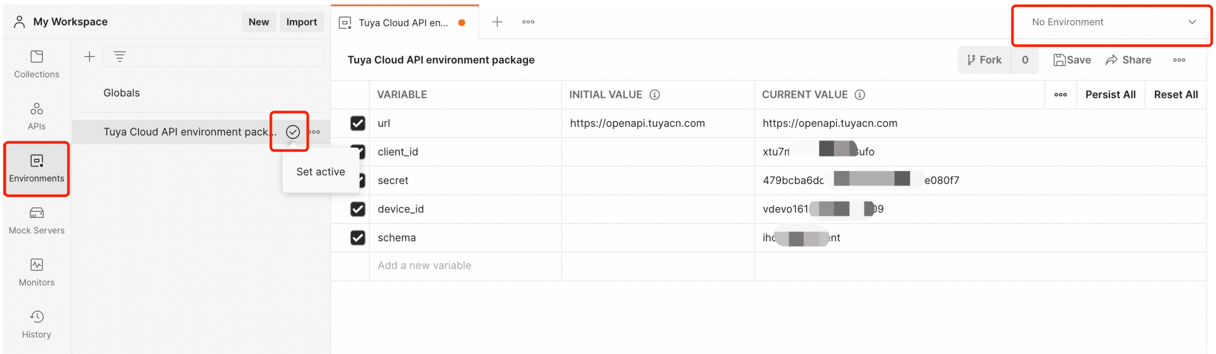
   > **Note**: If an earlier version of signature verification is used, you can download Tuya OpenAPI Package—Earlier Version.



1. Set **Postman** environment variables.

   In the left-side navigation pane, click **Environments** and double-click **Tuya Cloud API environment package** to set the parameters. Save the settings, click **Set active**, and then confirm that the **No Environment** in the top-right corner of the page is changed to **Tuya Cloud API environment package**.

Parameter	Description
`url`	The endpoint of the Tuya IoT Cloud service that you want to manage.**Note**: For example, the endpoint of the Tuya IoT Cloud service that is deployed in mainland China is set to `https://openapi.tuyacn.com`. For more information, see Endpoints .
`client_id`	The username that is authorized to access the specified cloud development project. The value is the same as the value of the `accessId` parameter on the Cloud Development Platform.
`secret`	The password for the username. The value is the same as the value of the `accessKey` parameter on the Cloud Development Platform.
`device_id` (optional)	The device ID. You can view the information about the device in the app. **Note**: Click the device that is added to the app and click the **pencil** icon in the top right corner of the page to view the device ID in the **Device Information** section.
`schema` (optional)	The channel identifier of the app. Set the value based on the app package name. For example, if your app package name is `com.aa.bb`, the value of `schema` is `aabb`.



Tuya Cloud API environment package

	VARIABLE	INITIAL VALUE	CURRENT VALUE
☑	url	https://openapi.tuyacn.com	https://openapi.tuyacn.com
☑	client_id		xtu7n [redacted] ufo
☑	secret		479bcba6dc [redacted] e080f7
☑	device_id		vdevo161 [redacted] 09
☑	schema		ihc [redacted] nt

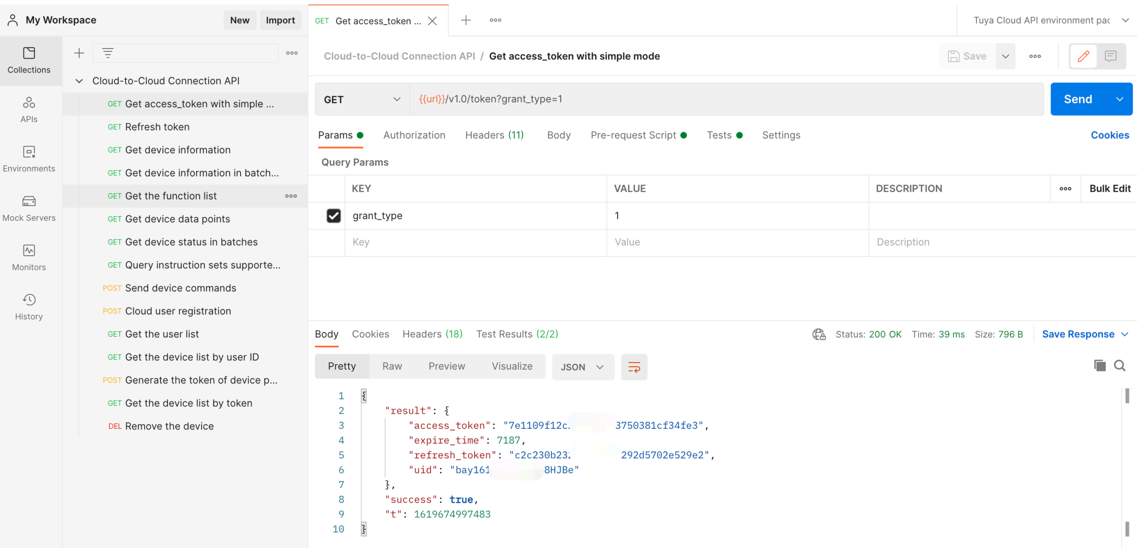
2 Call API operations

2.1 Prerequisites

- The device is linked with the Cloud Development Platform. For more information, see Link Devices.
- You are authorized to make required API requests. For more information, see Authorize projects to call the cloud product.

2.2 Procedure

1. Get a token. Call the **Get access_token with simple mode** operation to get the value of **access_token**. The value is required when you call API operations to control devices.


My Workspace
New
Import
Collections
APIs
Environments
Mock Servers
Monitors
History
Cloud-to-Cloud Connection API
GET Get access_token with simple ...
GET Refresh token
GET Get device information
GET Get device information in batch...
GET Get the function list
GET Get device data points
GET Get device status in batches
GET Query instruction sets supporte...
POST Send device commands
POST Cloud user registration
GET Get the user list
GET Get the device list by user ID
POST Generate the token of device p...
GET Get the device list by token
DEL Remove the device
GET Get access_token ...
Tuya Cloud API environment pac
Cloud-to-Cloud Connection API / Get access_token with simple mode
Save
Send
Params
Authorization
Headers (11)
Body
Pre-request Script
Tests
Settings
Cookies
Body
Cookies
Headers (18)
Test Results (2/2)
Save Response
Pretty
Raw
Preview
Visualize
JSON

GET {{url}}/v1.0/token?grant_type=1

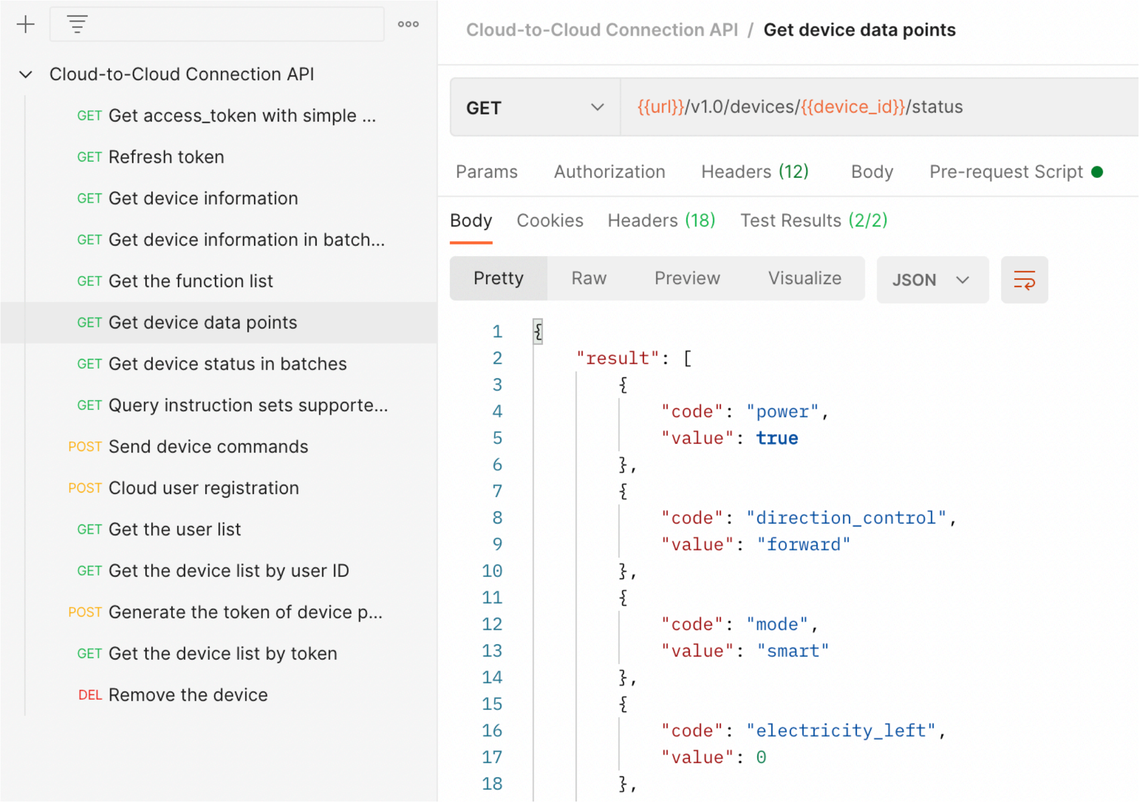
Query Params

☑	KEY	VALUE	DESCRIPTION
☑	grant_type	1	
	Key	Value	Description

Status: 200 OK Time: 39 ms Size: 796 B

```
{
    "result": {
        "access_token": "7e1109f12c[redacted]3750381cf34fe3",
        "expire_time": 7187,
        "refresh_token": "c2c230b23[redacted]292d5702e529e2",
        "uid": "bay161[redacted]8HJBe"
    },
    "success": true,
    "t": 1619674997483
}
```

1. Call the **Get device data points** operation to get the data points supported by the device. You can use them to control the device.



Cloud-to-Cloud Connection API
GET Get access_token with simple ...
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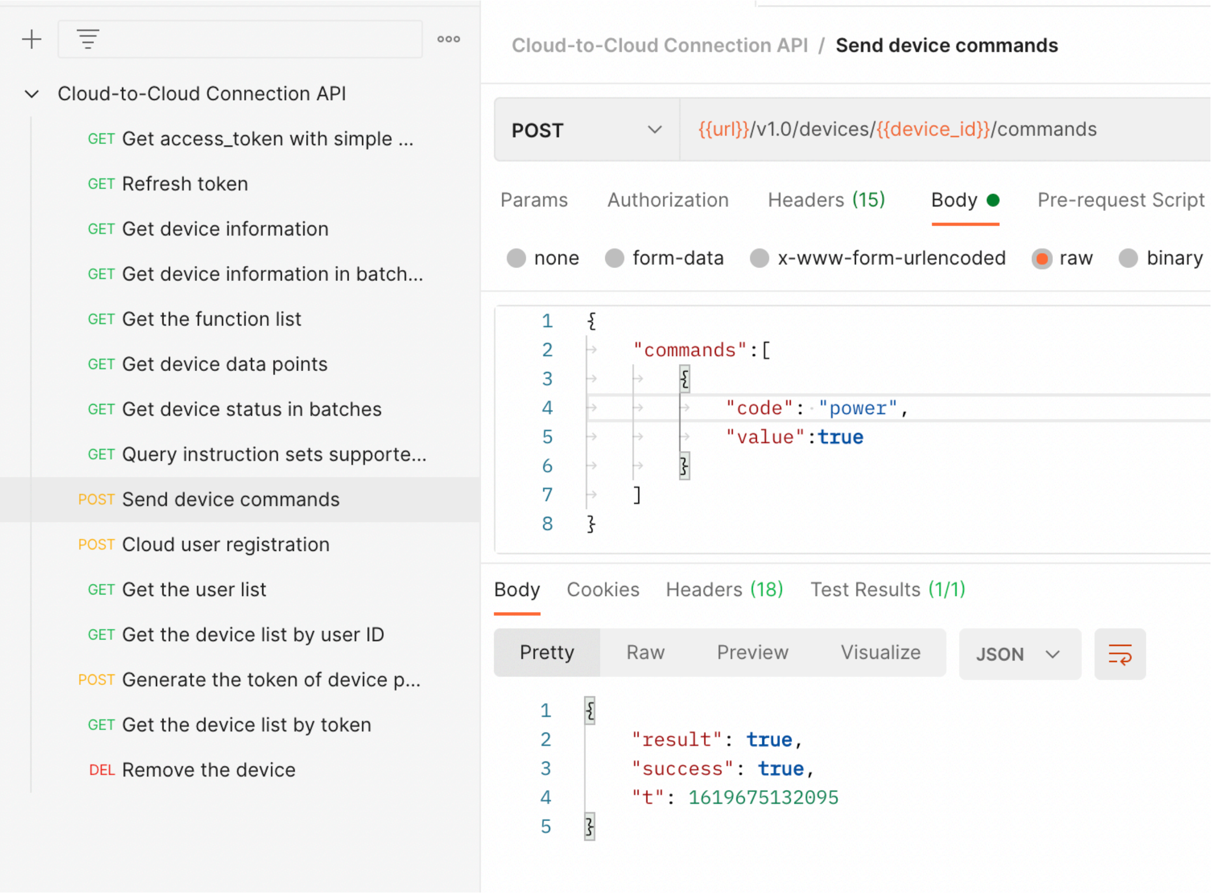
Cloud-to-Cloud Connection API / Get device data points
GET
Params
Authorization
Headers (12)
Body
Pre-request Script ●
Body
Cookies
Headers (18)
Test Results (2/2)
Pretty
Raw
Preview
Visualize
JSON

GET {{url}}/v1.0/devices/{{device_id}}/status

```
{
    "result": [
        {
            "code": "power",
            "value": true
        },
        {
            "code": "direction_control",
            "value": "forward"
        },
        {
            "code": "mode",
            "value": "smart"
        },
        {
            "code": "electricity_left",
            "value": 0
        },
```

1. Call the **Send device commands** operation to control the device. You can send a command that is supported by the device to achieve the required effect.


Cloud-to-Cloud Connection API
GET Get access_token with simple ...
GET Refresh token
GET Get device information
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GET Get the function list
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GET Get device status in batches
GET Query instruction sets supporte...
POST Send device commands
POST Cloud user registration
GET Get the user list
GET Get the device list by user ID
POST Generate the token of device p...
GET Get the device list by token
DEL Remove the device
Cloud-to-Cloud Connection API / Send device commands
Params
Authorization
Headers (15)
Body ●
Pre-request Script
○ none
○ form-data
○ x-www-form-urlencoded
● raw
○ binary
Body
Cookies
Headers (18)
Test Results (1/1)
Pretty
Raw
Preview
Visualize
JSON

POST {{url}}/v1.0/devices/{{device_id}}/commands

```
{
    "commands":[
        {
            "code": "power",
            "value":true
        }
    ]
}
```

```
{
    "result": true,
    "success": true,
    "t": 1619675132095
}
```

The following code block in the API request body shows how to start a robot vacuum:

```
{
    "commands":[
        {
            "code": "power",
            "value":true
        }
    ]
}
```

3 Operation result

The robot vacuum is started to run as expected.