

Quick Start (application Dimension)

 $\mathsf{Open}\;\mathsf{API} > \mathsf{Quick}\;\mathsf{Start}$

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Contents Quick Start (application Dimension)

This guide is designed to help developers quickly understand how to create Apps and control devices through Tuya Cloud Platform to play smart. Let's start the application journey!



1 Operating procedures

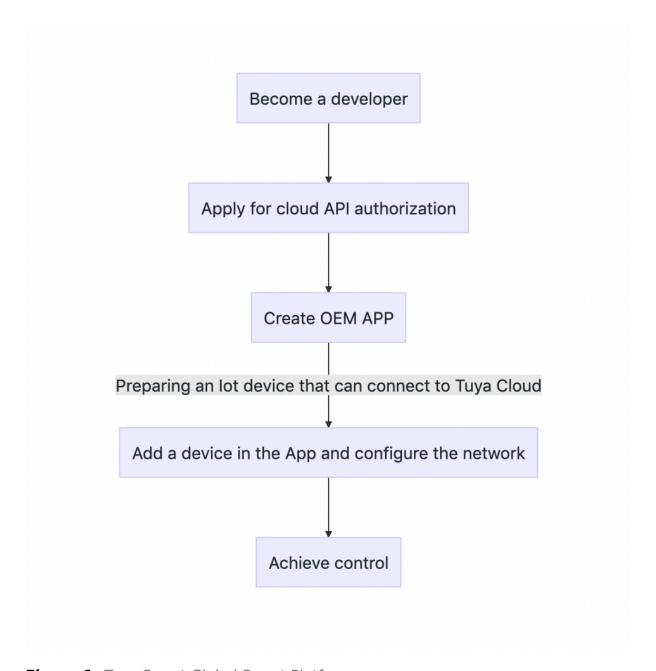


Figure 1: Tuya Smart Global Smart Platform



2 Become a Developer

Log in to Tuya Smart Development Platform https://iot.tuya.com, unregistered users sign up for a tuya account, and pass the enterprise authentication to become a platform developer.

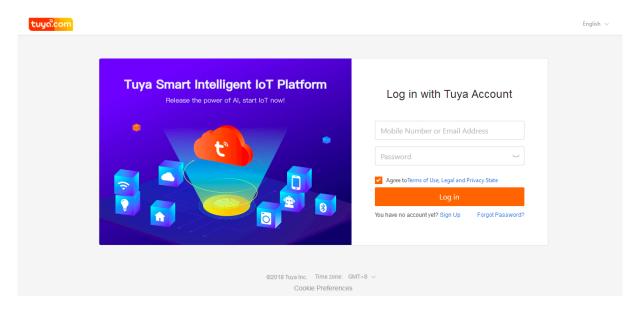


Figure 2: Tuya Smart Global Smart Platform



3 Apply for cloud API authorization

Tuya Cloud supports third-party clouds to access Tuya Cloud through HTTPS. Before connecting, Tuya Cloud must first apply for cloud API authorization. It can only be used after obtaining the AccessId and AccessKey. After logging in to the platform, click on the user's avatar, enter the "Cloud API Authorization", and click apply. After submitting the application, it will be reviewed within 1-2 working days.

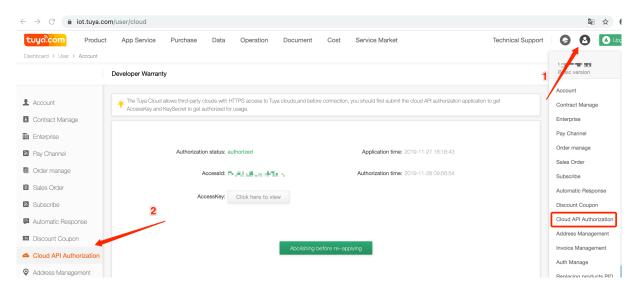


Figure 3: Cloud API Authorization

Follow-up device control depends on AccessId and AccessKey, please keep it safe!



4 Create OEM App

• Enter the [App Workbench] section and click Create App

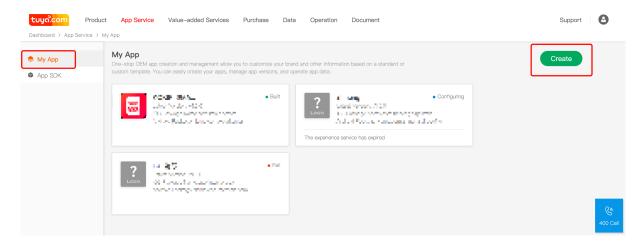
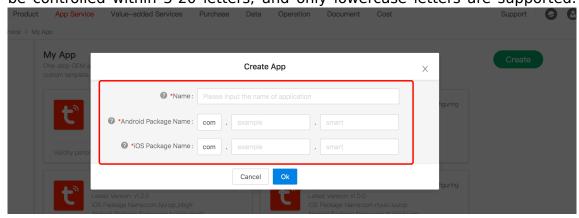


Figure 4: Create App

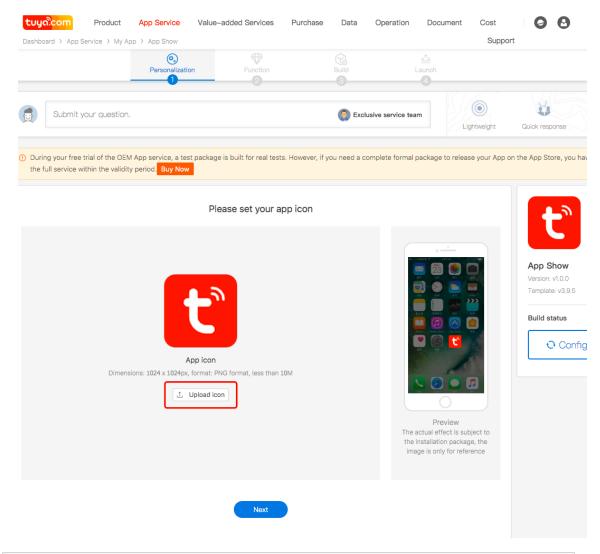
 Improve App Information - App name: The name of the App displayed on the desktop of the phone. The recommended length is 6 Chinese characters or 12 English characters. - App package name: As the unique identifier of the App, it is not allowed to be repeated. It is recommended that each paragraph be controlled within 3-20 letters, and only lowercase letters are supported.



Configure App

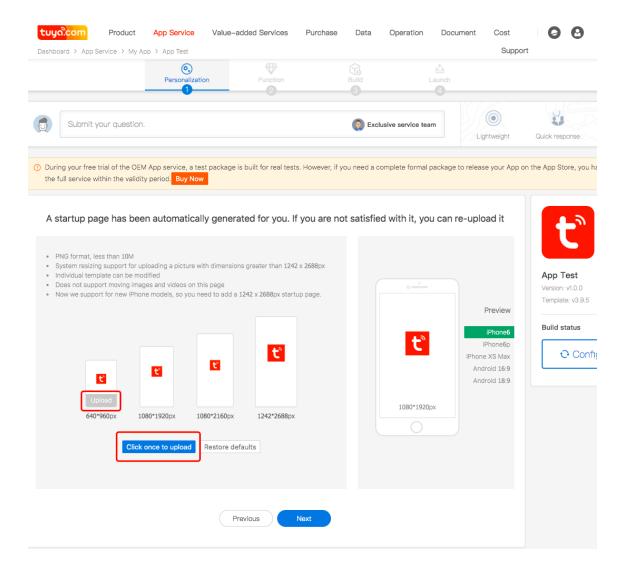
```
1 - App icon settings
2
3 Only supports png format, the size is equal to 1024 * 1024px;
```





1 - App startup map settings

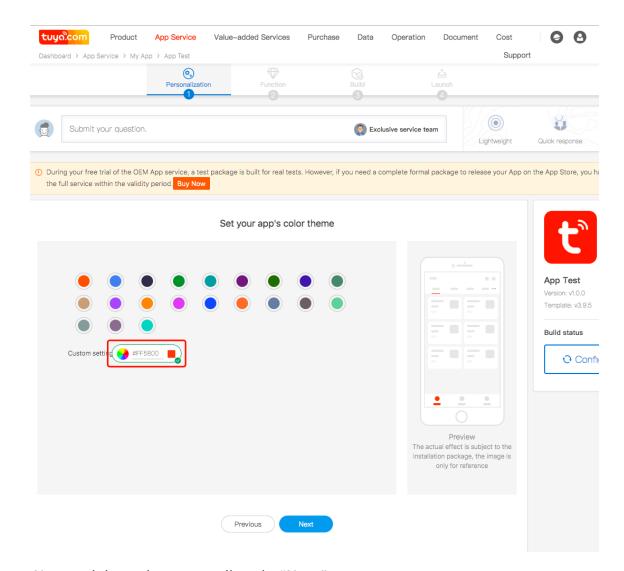




No special requirements, directly "Next"

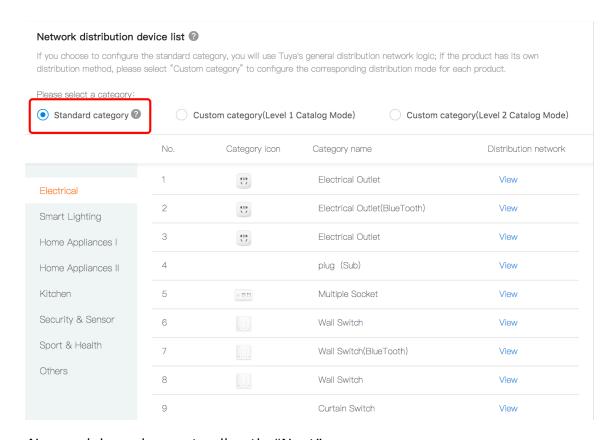
```
1 - App theme color settings
```



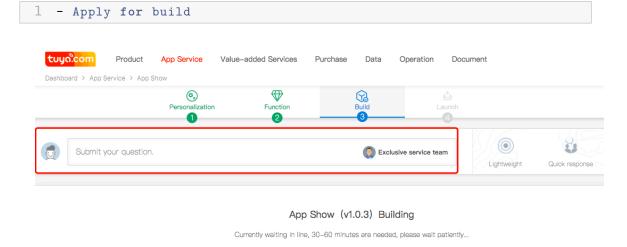


No special requirements, directly "Next"



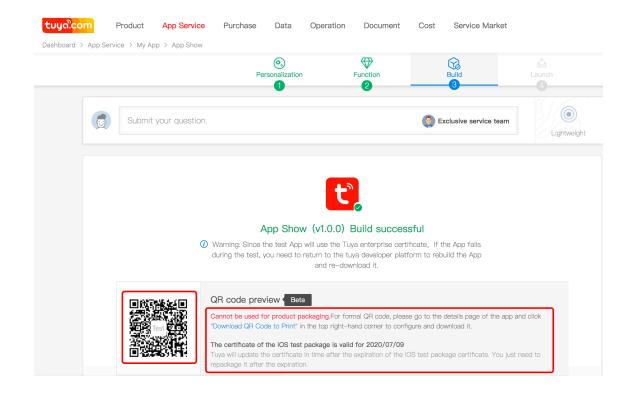


No special requirements, directly "Next"



 $1\,$ - Build completed, scan code installation







5 Prepare lot devices that can connect to Tuya Cloud

You can purchase lot devices that can be connected to Tuya Cloud from service providers, such as WiFi sockets and WiFi lighting bulbs.



6 Add devices and configure network in App

• Add device There are two ways to add devices in the App: "Manual Add" and "Auto Discovery". Here we choose "Auto Discovery".



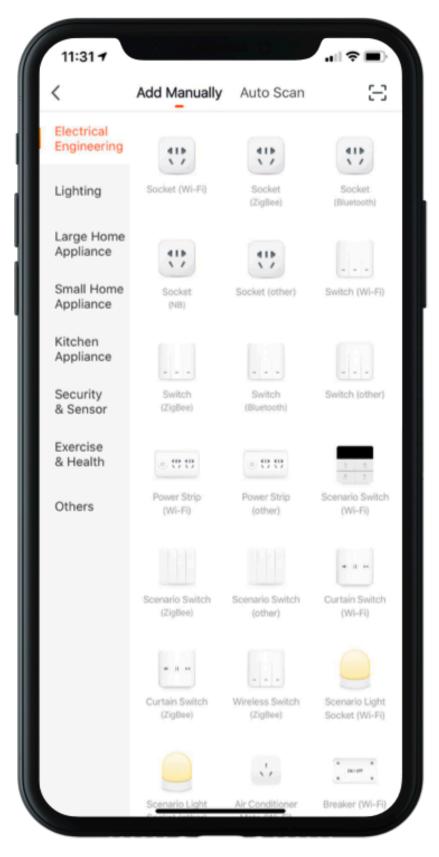
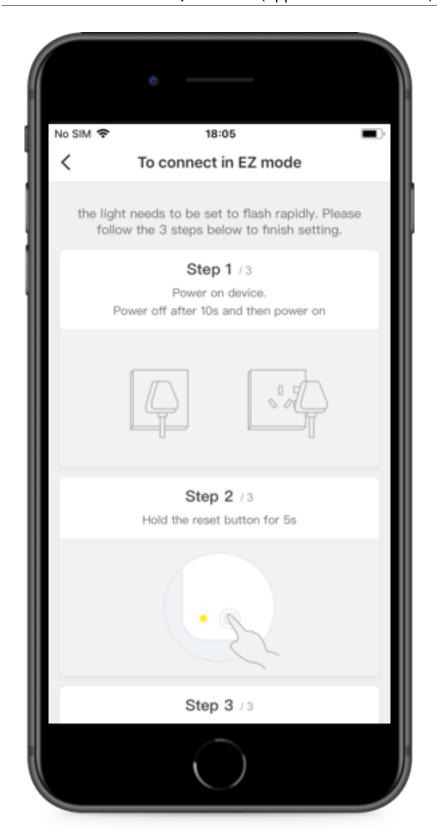


Figure 5: Build



- Equipment distribution After "auto-discovering" the device, configure the network according to the relevant instructions.
 - Power on the device
 - Long press the reset button (switch) for 5 seconds
 - Make sure the indicator flashes quickly









- 1 > Wi-Fi socket is used as an example for current network configuration. Different products have different network configurations. Please follow the corresponding network configuration instructions to configure the network.
 - After the device is successfully networked, you can operate the device through the App.

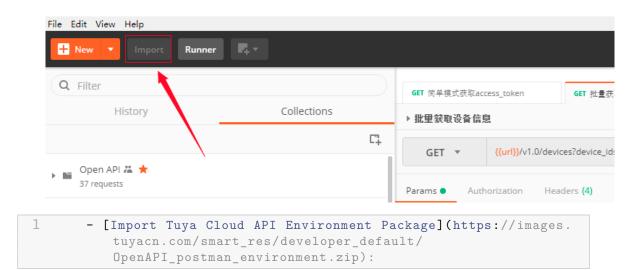


7 Use Postman to simulate OpenApi to control the device

The App created through the Tuya cloud platform has a built-in Tuya SDK, which can control the device interactively with Tuya cloud platform. Next, we call OpenApi through Postman to simulate the control device.

Environmental preparation

```
- Meet Postman
 2
 3
       Postman is a powerful Chrome plugin for webpage debugging and
           sending HTTP requests for webpages.
 5
       Portal: https://www.jianshu.com/p/0c247b351f08
 7
   - Set up Postman environment
8
9
       To be good at work, we must first sharpen our tools. Before we
            begin, we must prepare the postman and Tuya cloud-related
           environments.
10
       - Download postman: https://www.getpostman.com
11
           > Postman version is preferably 7.12.0 and above
12
       - [Import Tuya Cloud API Interface Package] (https://images.
           tuyacn.com/smart res/developer default/
           OpenAPI_postman_collection.zip):
```





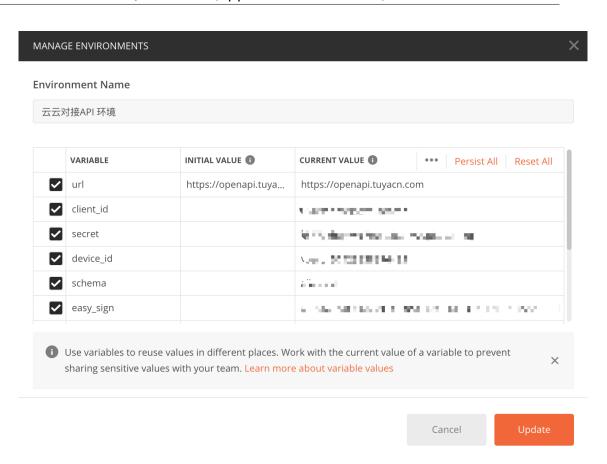
7 USE ROOGAN BANKIT (DASIMINICALITATE OPENASION) CONTROL THE DEVICE







7 USE POOSTANISATAINT (DASAMINI DEVICE



```
- OpenApi settings
 2
 3
        - Request method
4
5
            - Supported request methods are as follows:
6
7
                - GET
8
                - PUT
9
                - POST
10
                - DELETE
11
12
        > Please note: When the request method is `POST`, Content-Type
            needs to use `application / json`
```



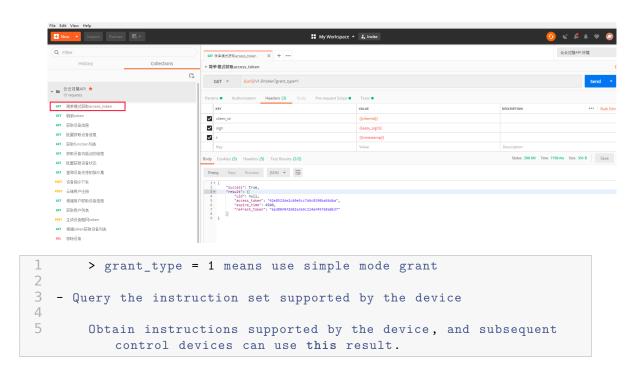
```
- Request header settings
2
3
       Any interface needs to add the following parameters to the header:
4
5
         Parameter | Type | Parameter position | Description | Required
       |-----|----|
       | client id | String | header | client id | Yes |
            sign | String | header | Signature calculated using the
          specified signature algorithm: token related interface, business
          related interface | Yes |
       | sign_method | String | header | Signature Digest Algorithm, HMAC-
          SHA256 | Yes |
10
       | t | Long | header | 13-bit standard timestamp | Yes |
11
       | lang | String | header | language, default en | No |
```

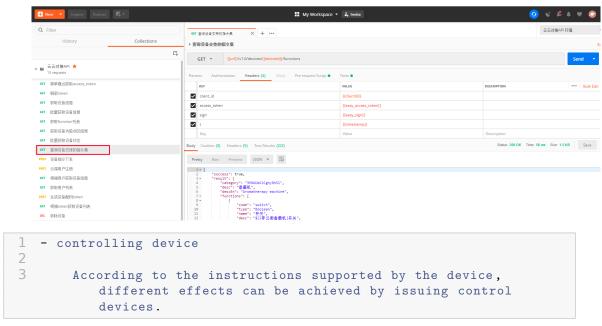
- Signature method Tuya Cloud currently provides two sets of signature algorithms according to different application scenarios:
 - Token related interface (v1.0 / token & v1.0 / token / {refresh_token}): sign
 HMAC-SHA256 (client_id + t, secret) .toUpperCase ()
 - Business interface (non-token interface): sign = HMAC-SHA256 (client_id + access_token + t, secret) .toUpperCase ()
- Postman control equipment in action

```
1 - Add products and network in the App
2
3 > Take Wi-Fi socket as an example, refer to the distribution network
4
5 - Get token
6
7 Apply for a token to Tuya Cloud first, and then use this token to request other APIs, otherwise there will be permission problems.
```



7 USE POOSTING THE DEVICE







7 USE POOSTING THE DEVICE

