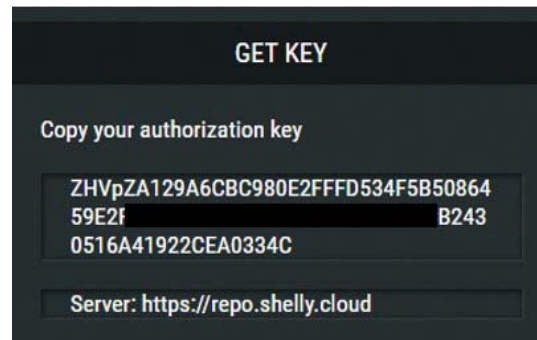# Shelly cloud API access

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 We have added a secure external API to the Shelly cloud, something many customers have requested. This will allow 3rd party programs which you authorize to control your Shelly devices from anywhere through the Shelly cloud.

1. To use 3rd party cloud API you must to create account in Shelly cloud App or http://my.shelly.cloud

2. Associate your Shelly devices to it.

3. Generate auth_key in Shelly APP.

4. Copy your server location link

```
Important:
API is limited to 1 request per second at the moment. For professional or comercial
usage contact Shelly Team.
```


How to generate auth_key in Shelly APP:

Login in to Shelly APP, go to User Settings. Click on auth_key. Copy and paste the CloudKey. Copy and paste your server location link

```
IMPORTANT:
Do not show this auth_key and/or server location to anyone, if anyone else has it, they
can control your devices!
If you change your account password, the auth_key will be changed too.
```

How to use auth_key

 You can execute commands using cloud Key and change ANY device settings.

For Shelly1, Shelly1PM, Shellu2, Shelly2.5, Shelly4pro:

The syntax of the parameters of the POST command is:

```
POST link: https://[server location link]/device/relay/control/

Keys:
channel=[channel number] - you can check the channel from
                           Settings->Device informationkey

turn=[command]
id=[deviceID] - you can check the channel from  Settings->Device informationkey
auth_key=[auth_key]
```

Where:

channel number: 0-3 (0 i channel 1, 3 is channel 4)

commands:on or off

deviceID: device id which you want to control. You can copy it from Settings -> Device info

auth_key: The key which you copy paste from your accoun

Example:

Post command Example

For Shelly2 and 2.5 in roller shutter mode:

The syntax of the command for **open and close** is:

```
POST link: https://[server location link]/device/relay/roller/control/
Keys: direction=[command]id=[deviceID] - you can check the channel from
Settings->Device informationkey auth_key=[auth_key]
```
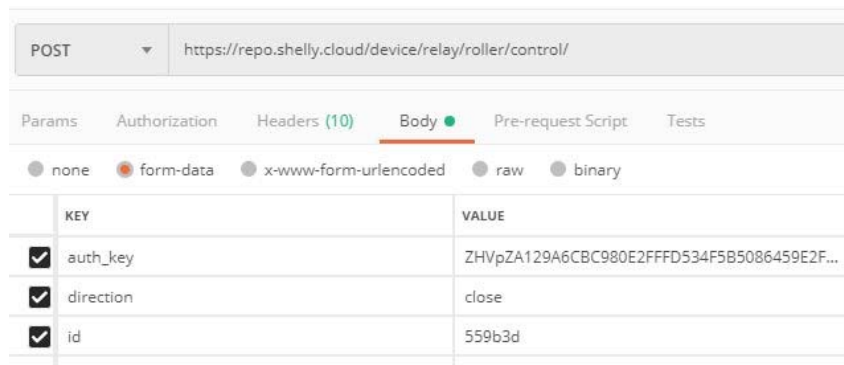
Where:

directions: open, close, stop

deviceID: device id which you want to control. You can copy it from Settings -> Device info

auth_key: The key which you copy paste from your account.

Example:

POST ▼ https://repo.shelly.cloud/device/relay/roller/control/

| Params | Authorization | Headers (10) | Body ● | Pre-request Script | Tests |

○ none ● form-data ○ x-www-form-urlencoded ○ raw ○ binary

	KEY	VALUE
☑	auth_key	ZHVpZA129A6CBC980E2FFFD534F5B5086459E2F...
☑	direction	close
☑	id	559b3d

Open and Close example

The syntax of the command for open and close by percentage is:

```
POST link: https://[server location link]/device/relay/roller/settings/toposkey

Keys:
pos=[value]
id=[deviceID] - you can check the channel from Settings->Device information
auth_key=[auth_key]
```
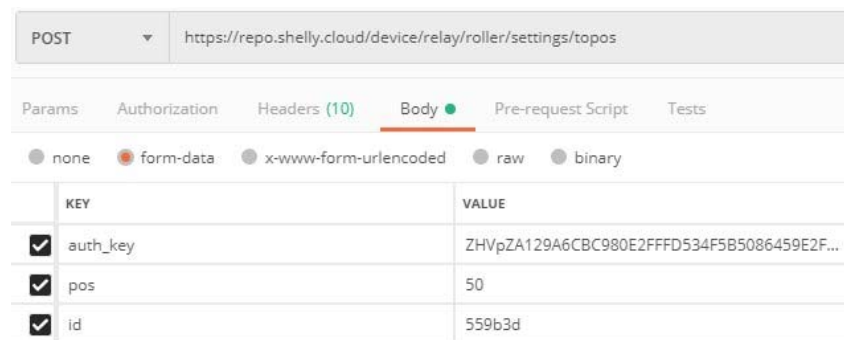
Where:

pos value: 0-100

deviceID: device id which you want to control. You can copy it from Settings -> Device info

auth_key: The key which you copy paste from your account.

Example:

POST ▼ https://repo.shelly.cloud/device/relay/roller/settings/topos

| Params | Authorization | Headers (10) | Body ● | Pre-request Script | Tests |

○ none ● form-data ○ x-www-form-urlencoded ○ raw ○ binary

	KEY	VALUE
☑	auth_key	ZHVpZA129A6CBC980E2FFFD534F5B5086459E2F...
☑	pos	50
☑	id	559b3d

Open/Close by percentage

For ShellyRGBW2, Bulb and RGBW in color mode

The syntax of the command is:

```
POST link: https://[server location link]/device/light/control
Keys:
turn=[command]
white=[value]
red=[value]
green=[value]
blue=[value]
```

```
gain=[value]
key id=[deviceID] - you can check the channel from Settings->Device information
key auth_key=[auth_key]
```

Where:

turn: on or off
optional:
white, red, green and blue value: 0 - 255
gain value: 0 - 100 it's only for RGB color

Examples:

Turn device ON with last set values

Set white to 30%

KEY	VALUE
☑ auth_key	ZHVpZA129A6CBC980E2FFFD534F5B5086459E2F...
☑ id	2b8f54
☑ white	30
☑ turn	on

Turn On and Set white to 30%

KEY	VALUE
☑ auth_key	ZHVpZA129A6CBC980E2FFFD534F5B5086459E2F...
☑ id	2b8f54
☑ white	30
☑ turn	on
☑ red	20
☑ blue	50
☑ green	70
☑ gain	50

Turn On and Set all colors + gain of the RGB

For ShellyRGBW2, Bulb and RGBW in white mode

The syntax of the command is:

```
POST link: https://[server location link]/device/light/control Keys: channel=[channel
number]
turn=[command]brightness=[value]id=[deviceID] - you can check the channel from
Settings->Device informationkey
auth_key=[auth_key]
```

Where:
channel=0-4
turn: on or off
brightness=0-100

Example:

Turn On and set brightenn to 50

How to control device from IFTTT Webhook ?

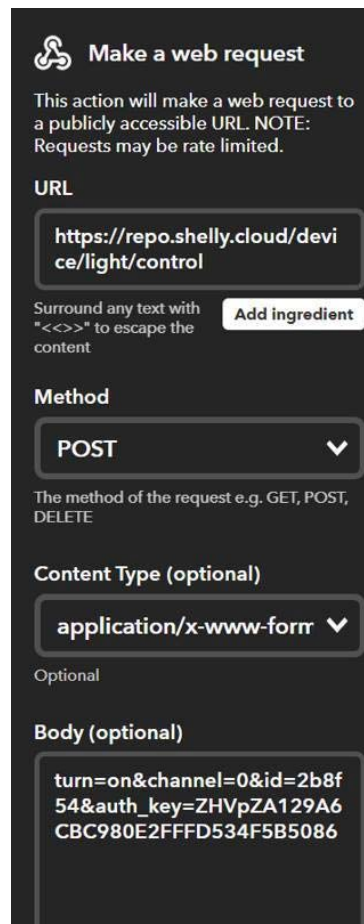To control Shelly devices from IFTTT you need to set Webhook as result of the conditions.
In URL you need to enter the https://[server location link]/[device specific link]
Method:POST
Content type: application/x-www-form-urlencoded
Body: all device specific parameters with "&" between them.

Example:

Webhook example