# Build IoT solutions with YeeLight and Microsoft Flow

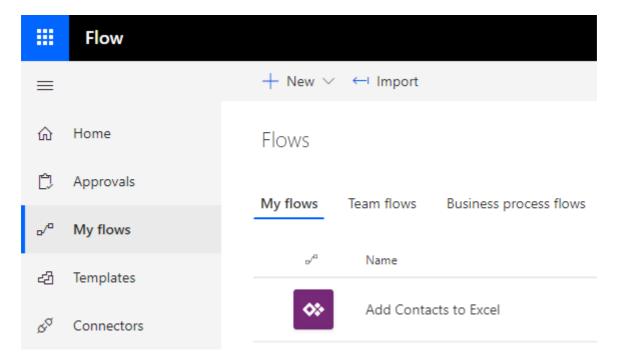
This is a tutorial to build solution with IoT light which integrate with Microsoft Flow. You can keep them around your home and track data about your daily life.

#### Prerequisites:

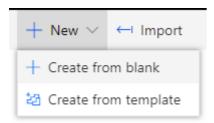
- 1. Mi Home Account
- 2. Registed YeeLight in Mi Home App
- 3. Microsoft Flow Account
- 4. Microsoft Flow App (Android/iOS)

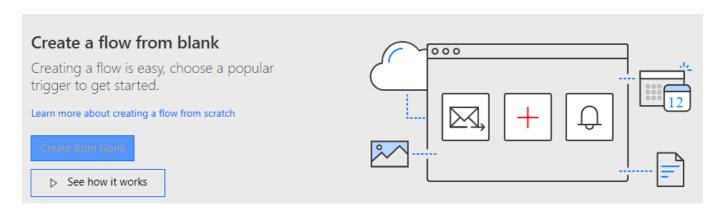
### Create a new Microsoft Flow

Sign in to Microsoft Flow and create new flow in My flows



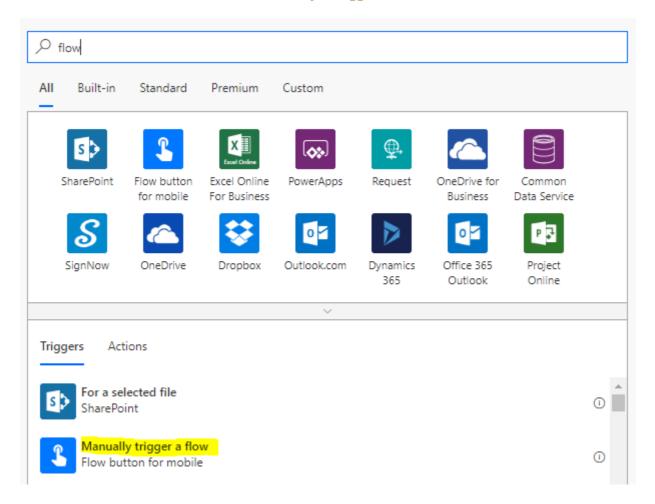
#### Click Create from black



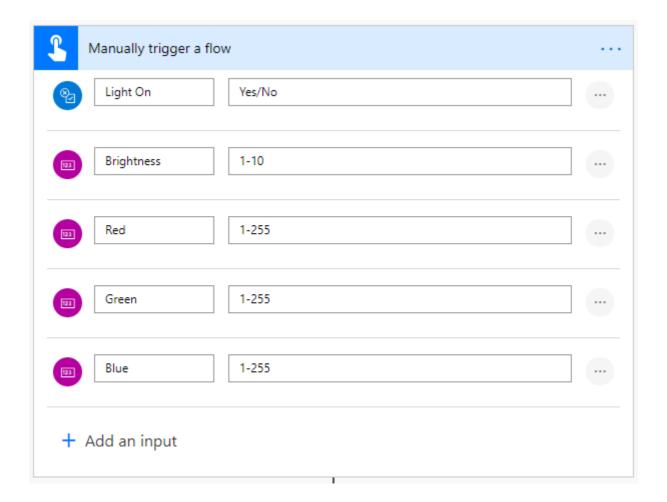


## Add Microsoft Flow trigger

Search flow in search bar, then select Manually trigger a flow

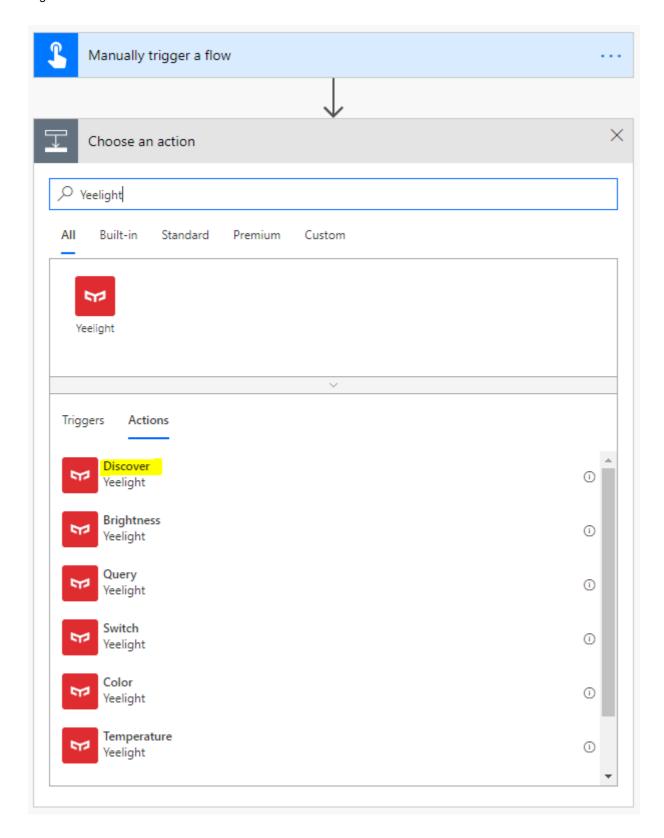


Add inputs as below (Light On: Yes/No, Brightness: number, Red: number, Green: number, Blue: number)

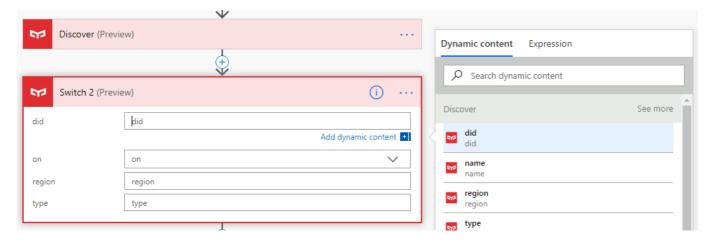


### Add Microsoft Flow action

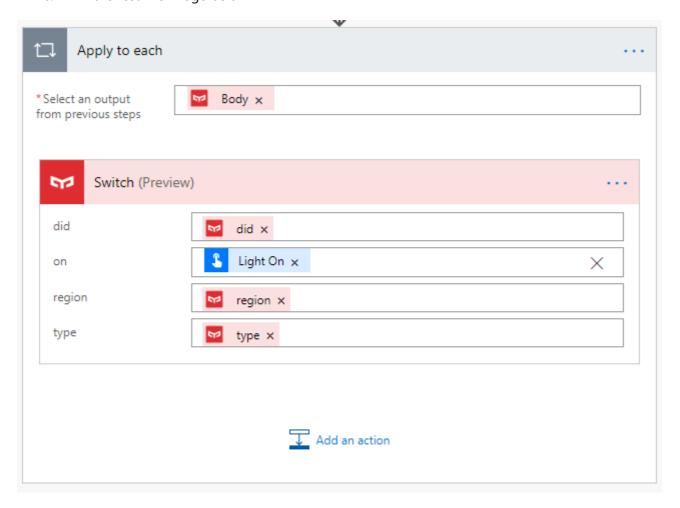
- 1. Click + below the trigger
- 2. create an action
- 3. Search Yeelight
- 4. Select Discover



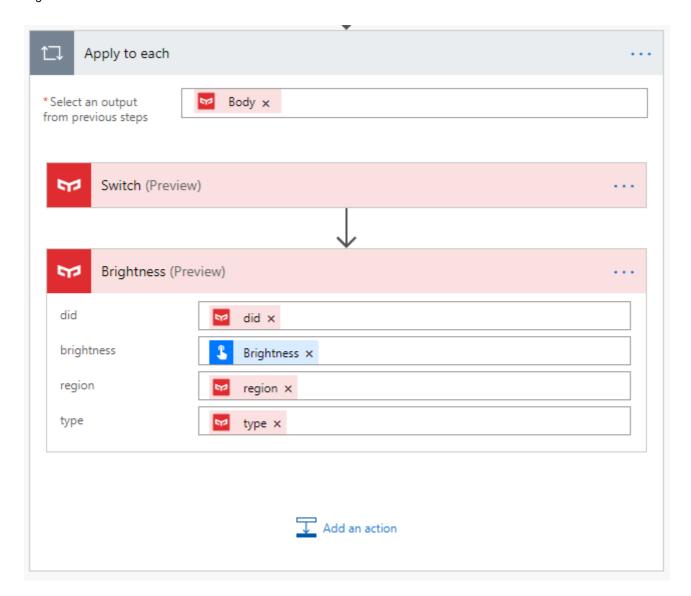
- 5. Repeat **1-4**
- 6. Select Switch
- 7. Click did text field and select did in dynamic content



8. Fill in the rest like image below

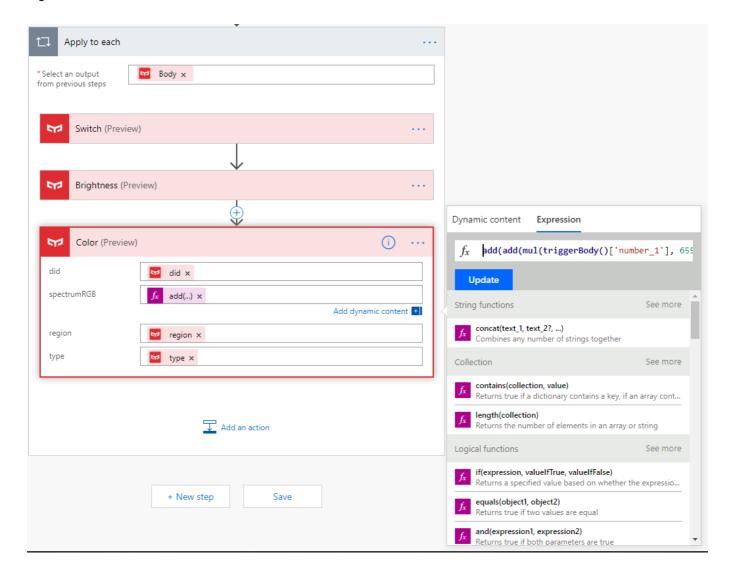


- 9. Repeat **1-4**
- 10. Select Brightness
- 11. Fill in the rest like image below



- 9. Repeat **1-4**
- 10. Select Color
- 11. Fill in the rest like image below. The fomula is

```
add(add(mul(triggerBody()['number_1'], 65536), mul(triggerBody()['number_2'], 256)),
triggerBody()['number_3'])
```



RGB (Red, Green, Blue) are 8 bit each. The range for each individual colour is 0-255 (as  $2^8 = 256$  possibilities). The combination range is 256256256.

### Test Microsoft Flow

Open Microsoft Flow App in mobile phone and test