



# 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.

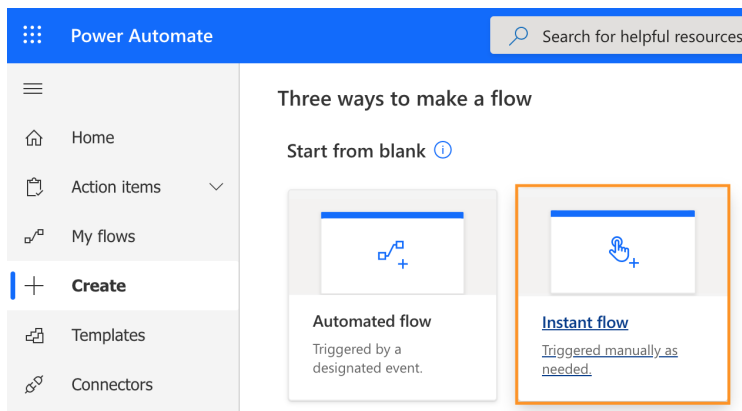
This tutorial will

## Prerequisites

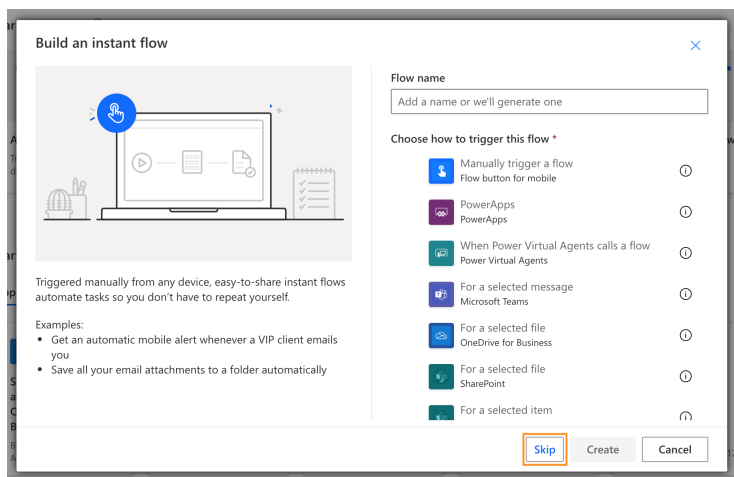
1. Get a Mi Account in [Mi Home](#)
2. Download Yeelight App  and login with Mi Account
3. Login [Microsoft Power Automate](#) with "onmicrosoft" account
4. Download Microsoft Power Automate App  and login with "onmicrosoft" account

## Create a new flow

1. In [Power Automate](#), goto "Create" and click `Instant flow`

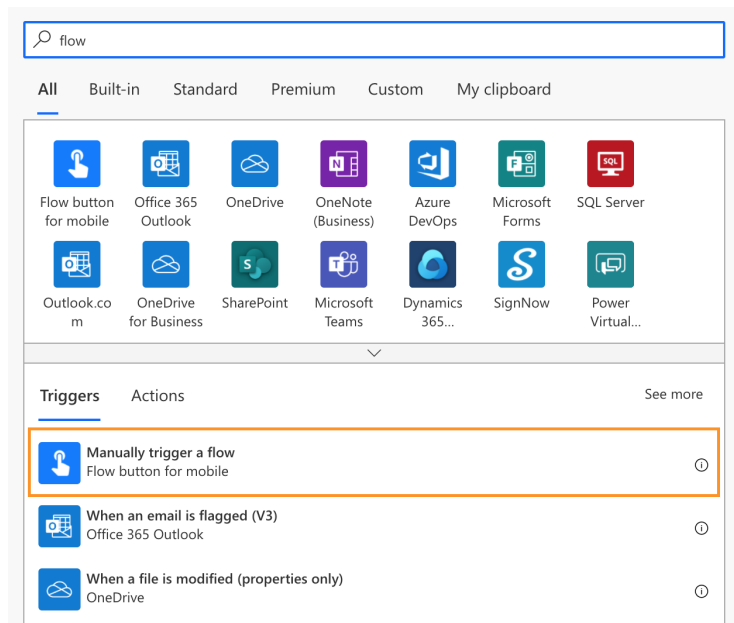


2. A "Build an instant flow" box will show, click `skip`

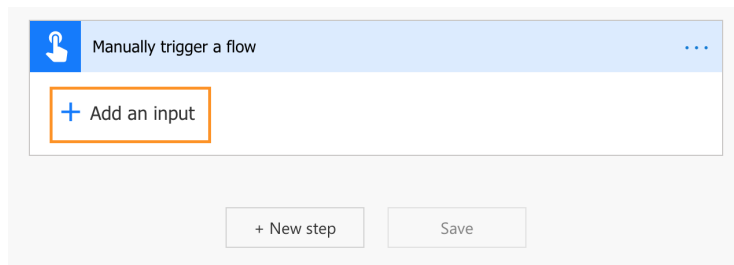


## Choose the flow trigger

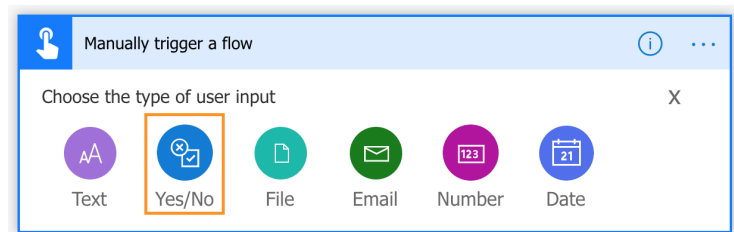
1. In search bar, type `flow` , select the trigger `Manually trigger a flow`



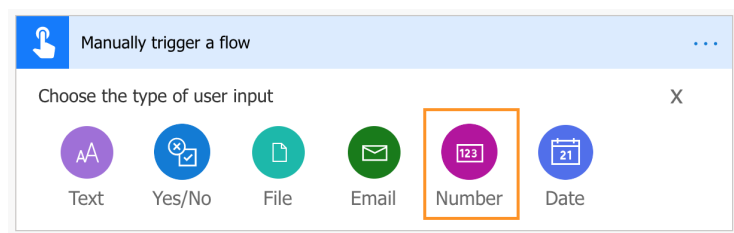
2. Click Add an input



3. Choose Yes/No for Light On option





4. Choose Number for Brightness, Red, Green, Blue options



5. Add different input options as below:


- Light On: Yes/No
- Brightness: 1-100
- Red: 0-255
- Green: 0-255
- Blue: 0-255

 Manually trigger a flow ...

 Light On


Yes/No

...

 Brightness


1-100

...

 Red


0-255

...

 Green


0-255

...

 Blue


0-255


...

 Add an input


## Add Yeelight Discover action

1. Click + New step
2. In search bar, search Yeelight
3. Select Discover


 Choose an action ×

 Yeelight

AllBuilt-inStandardPremiumCustomMy clipboard


Yeelight

TriggersActionsSee more

Color (preview)PREMIUM


Yeelight

①

Query (preview)PREMIUM


Yeelight

①

Switch (preview)PREMIUM


Yeelight

①

Discover (preview)PREMIUM


Yeelight

①

Temperature (preview)PREMIUM

Yeelight

①

Brightness (preview)PREMIUM

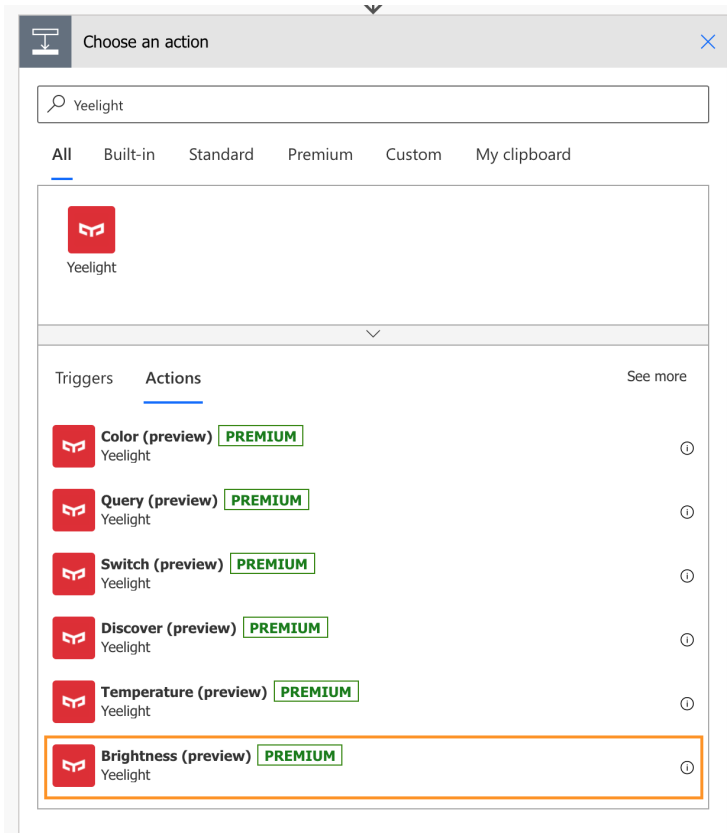
Yeelight

①

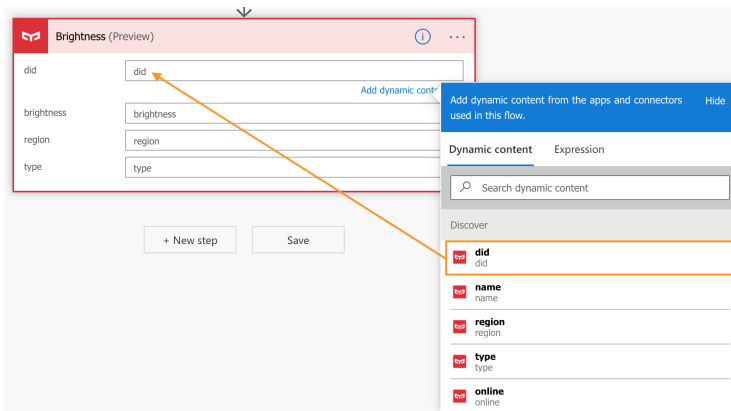
You need to sign in with your Mi Account.

## Add Yeelight Brightness action

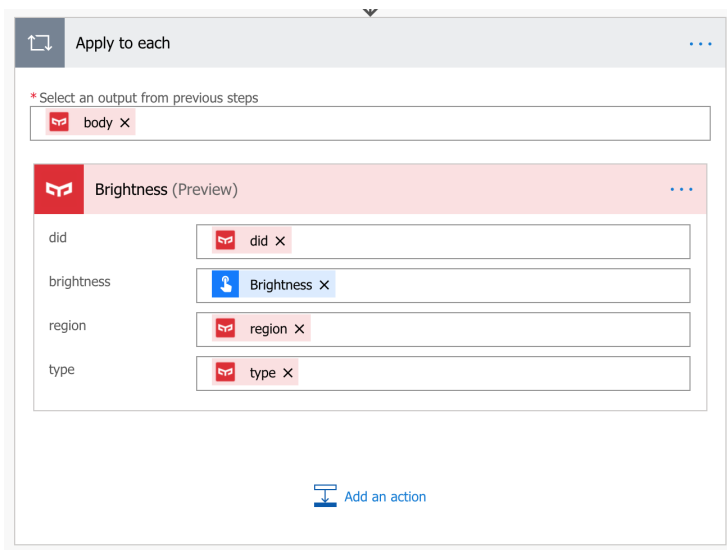
1. Click + New step
2. In search bar, search Yeelight
3. Select Brightness




4. In Dynamic content , add did under the field Discover

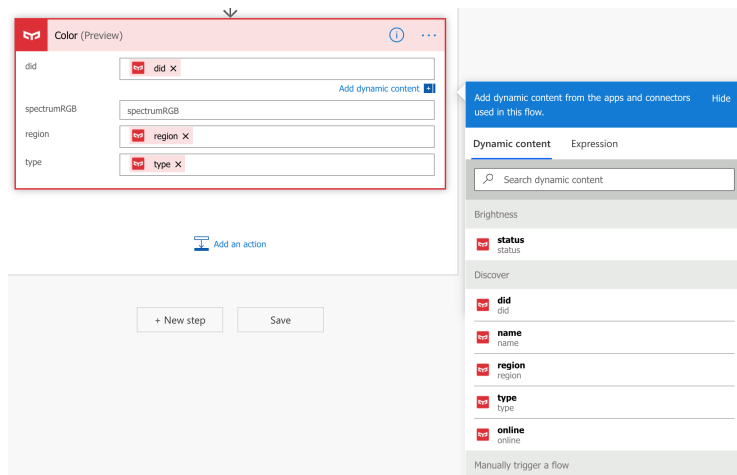


5. The block will be added into "Apply to each", click on Brightness(Preview) expend the block and add Brightness from Dynamic content: Manually trigger a flow ,add region and type from Dynamic content: Discover



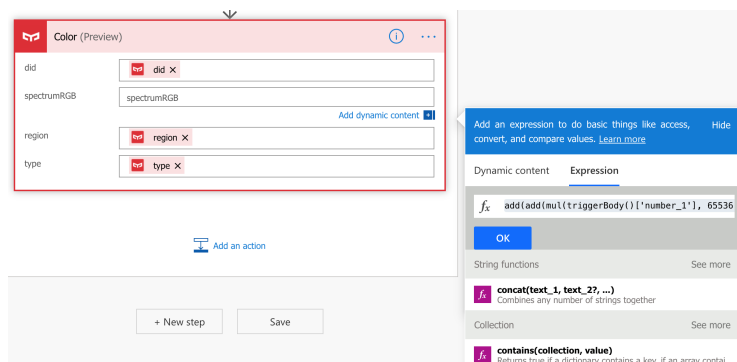
## Add Yeelight Color action

1. Inside the "Apply to each", click  Add an action
2. In search bar, search Yeelight
3. Select color
4. Fill in did , region and type from Dynamic content: Discover as below:



5. In spectrumRGB , click the tab Expression
6. In fx field, copy and paste the formula<sup>#1</sup>:


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

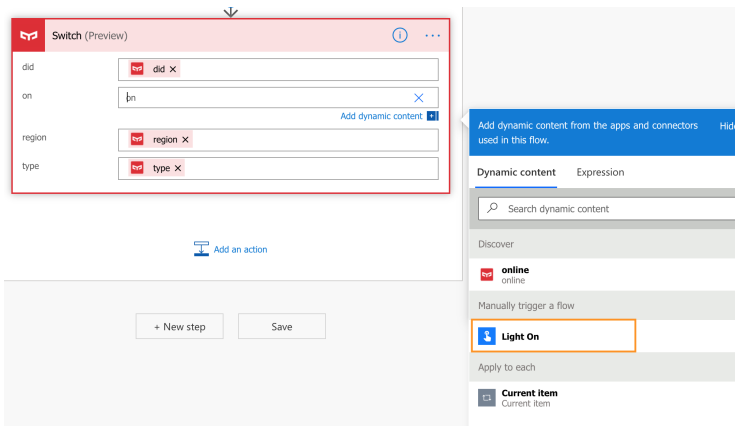


7. Click ok



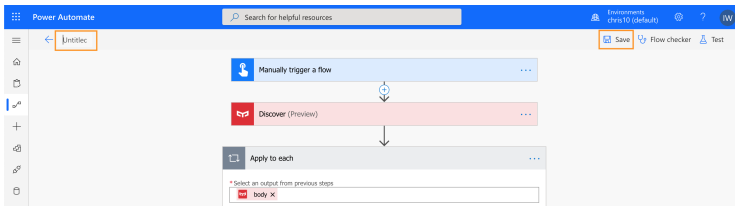
## Add Yeelight Switch action

1. Inside the "Apply to each", click  Add an action
2. In search bar, search Yeelight
3. Select Switch
4. Fill in did , region , type form Dynamic content: Discover
5. In the field on , click Enter custom value then select Light On from Dynamic content: Manually trigger a flow




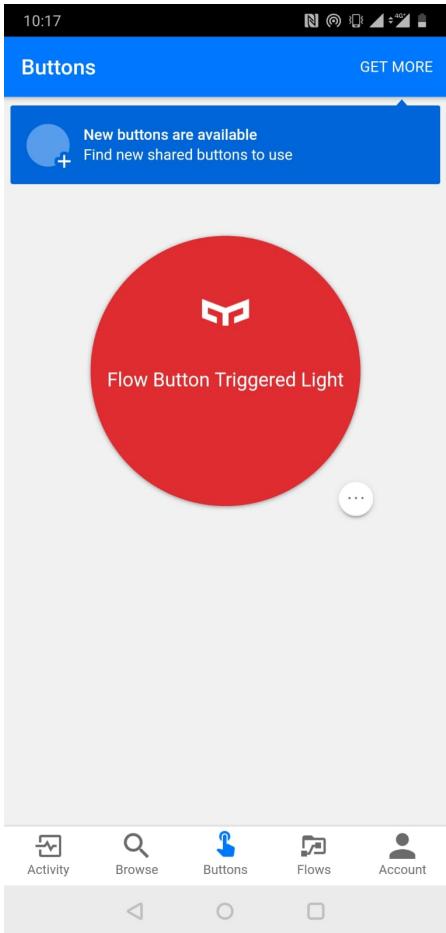
## Name and save the flow

1. Click `Untitled` on the left hand top to change your flow's name
2. Click `save` on the right hand top to save all the changes



## Test Microsoft Flow

1. Open Microsoft Power Automate App  and login with "onmicrosoft" account
2. Click `Buttons` tab and you will see your flow button on the screen



3. Click the flow button and try to control your light

10:18

← Flow Button Triggered Light DONE

Light On  
Yes/No

Brightness  
1-10

Red  
1-255

Green  
1-255

Blue  
1-255

#1 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.