

Writing notification rules

Notification rules allow devices to send a notification on a certain trigger condition. You have the option to specify any trigger condition that you may like.

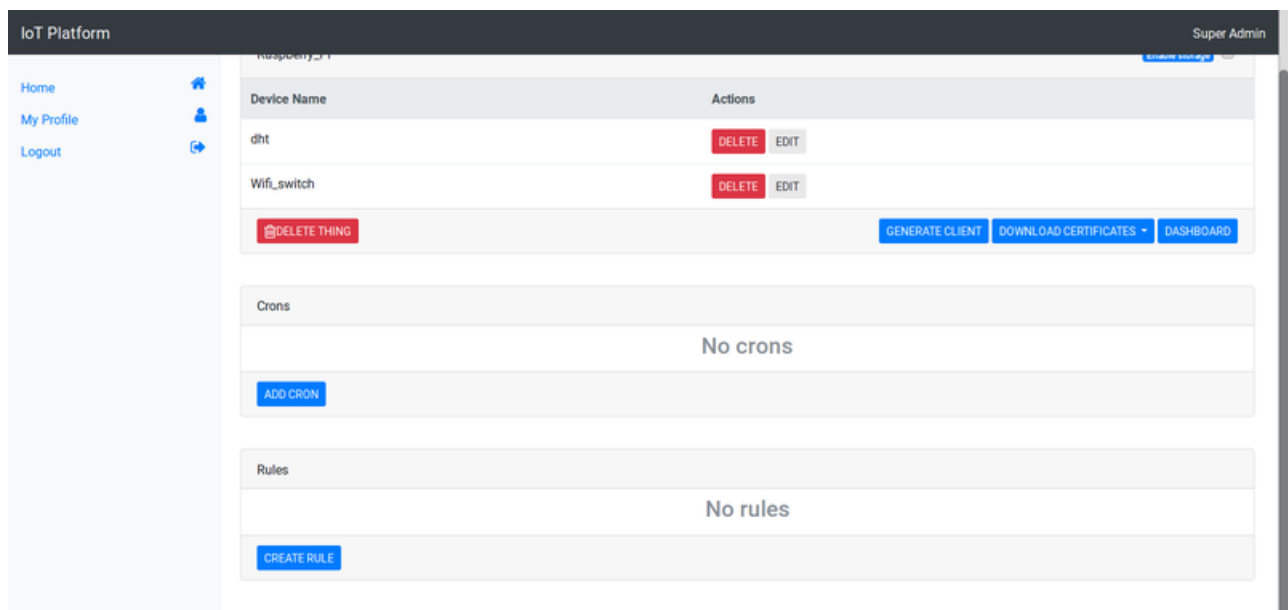
For example, you might want to be notified if temperature on your sensor goes above some X degrees. You can create an SNS rule with the condition for temperature greater than X and message you want to send. You can also add subscribers by email, sms*, etc. to receive this notification.

Prerequisites

1. Creating **organizational units or using-iot-platform.pdf** with actuators in IoT Platform.
2. **Connecting a thing using python or mongoose OS** to IoT Platform and make it trigger actions (like LED on/off, etc).

Steps

1. Login to *e-Yantra IoT Platform*.
2. Select the *thing* you wish to create a notification rule on.
3. Find the *Rules* section and click on *Create rule* button.



4. You will see a modal like below. Following are the fields:
 1. **Name** is the name of your rule. It CANNOT BE SPACE SEPERATED. You should use hypens or underscores if you inted to create multi-word string.
 2. **Description** is the description of what your rule does.
 3. **Data** is how much of your data from the device should be used for making decisions and sending. If you want to select all the data, you can use "*" for ALL.
 4. **Condition** is trigger condition on which the rule executes the action (in our case sends an email/sms). You can only put condition on any of the fields filtered due by data parameter.

IoT Platform

Super Admin

Home My Profile Logout

Device Name

dht

Wifi_switch

Crons

Rules

No rules

CREATE RULE

Create Rule

Name: temperature_rule

Type: [Dropdown]

Description: Rule to send notifications via SMS

Data: e.g. * or state.reported.deviceXX.XX, ...

Condition(Optional): e.g. where state.reported.deviceXX.XX > 50

Save Close

5. We will create a rule named Temperature rule. Fill the values like shown below. **Note:** We have to use *get* method to fetch value from device shadow of the temperature field. You should use *generate client* window to find out which field represents temperature values.

IoT Platform

Super Admin

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Device Name

dht

Wifi_switch

Crons

Rules

No rules

CREATE RULE

Create Rule

Name: temp_rule

Type: [Dropdown]

Description: A rule to notify if temperature goes above 30

Data: *

Condition(Optional): get(device.reported, 'device16.44') > 30

Save Close

6. Select SNS in Type and fill the details like below. Following are what the fields mean:
1. **SNS Topic** on which you want to publish this message. It CANNOT BE SPACE SEPERATED. You should use hypens or underscores if you inted to create multi-word string.
 2. **Subject** for notifications that *support subject field* like emails.
 3. **Message** to send as a payload in emails/sms.

4. **Interval** is minimum time before another notification is sent.

The screenshot shows the 'Create Rule' dialog in the IoT Platform. The dialog has the following fields and values:

- Name: temp_rule
- Type: SNS
- Description: A rule to notify if temperature goes above 30
- Data: *
- Condition(Optional): get(device.reported, 'device16.44') > 30
- SNS Topic: temperature-notifier
- Subject: Temperature is above 30
- Message: Too hot. Temperature is above 30.
- Interval(in minutes): 15

Buttons: Save, Close

7. Save your rule and that's it. The rule has been created but there are no subscribers for your rule.
8. Click on the details button on the rule and you would see this window. It shows you subscription details:

SNS Settings	
Name	Value
SNS Topic	temperature-notifier
Topic ARN	arn:aws:sns:ap-southeast-1:362702149756:temperature-notifier

SNS Subscriptions	
Protocol	Value
email	manjrekaron@gmail.com

Note: If you have not added any subscriptions yet you would be presented with "no subscriptions" message. In my case, I had created one already.

9. Select *add subscription* and the details like below. In the protocol, type "email" and use your email ID as "endpoint".
10. Click save and you'll see the email ID you used, in the table below.
11. You should check your email inbox for a subscription email from AWS. Once you confirm, you will start receiving messages.