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Internet of Things (IoT)

Using Rules and Actions with IBM Watsc Platform Cloud Analytics

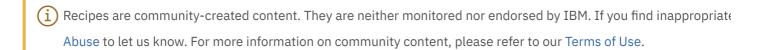
EdProsser

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Overview

Skill Level: Beginner

With IBM Watson IoT Platform you can set up rules and actions that trigger from your IoT device recipe uses a simulated device to set cloud analytics rules and actions for three metrics: temperature to set cloud analytics rules and actions for three metrics: object temperature.

Ingredients

To follow this recipe you will require:

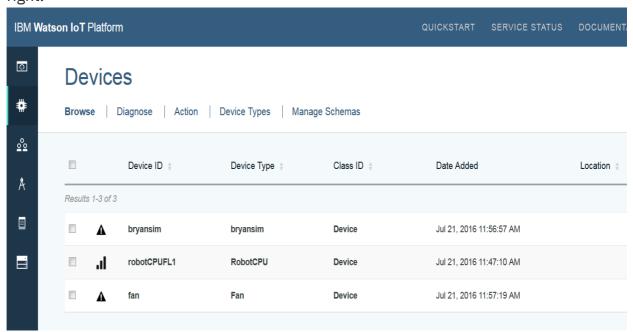
An instance of Watson IoT Platform running in Bluemix.

Step-by-step

Registering the iotsensor with Watson IoT Platform

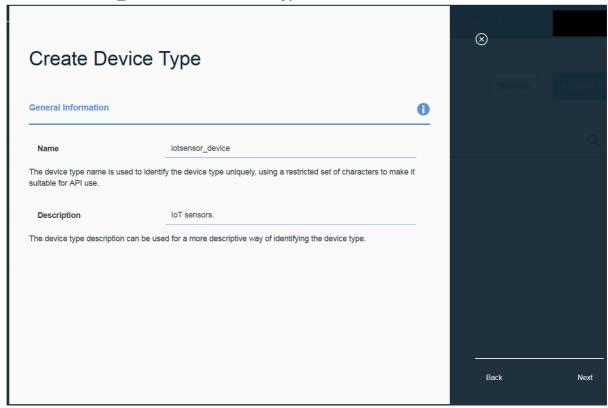
Before you can receive events and datapoints from the sensor, your must register it with Warfollowing these steps. This step is only required the first time that your follow this recipe.

1. In your Watson IoT Platform dashboard, select **Devices** from the menu pane, then click right.

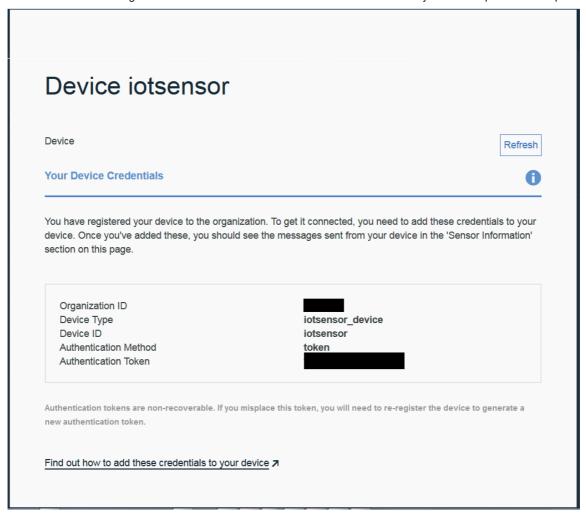


2. Click **Create device type**. Creating a device type will make it easier to find and identify after connecting it.

3. Enter iotsensor_device as the device type name then click Next and then click Create.



- 4. Click Next.
- 5. Enter **iotsensor** as the device ID.
- 6. Click Next.
- 7. Provide an authentication token, or accept an automatically generated token. Providing authentication token may be useful for recalling it later, for example "MyDevice".
- 8. Verify that the summary information shown is correct and then click Add.
- 9. In the device information page, copy and save the following device information
 - Organization ID
 - Device Type
 - Device ID
 - Authentication method
 - Authentication token

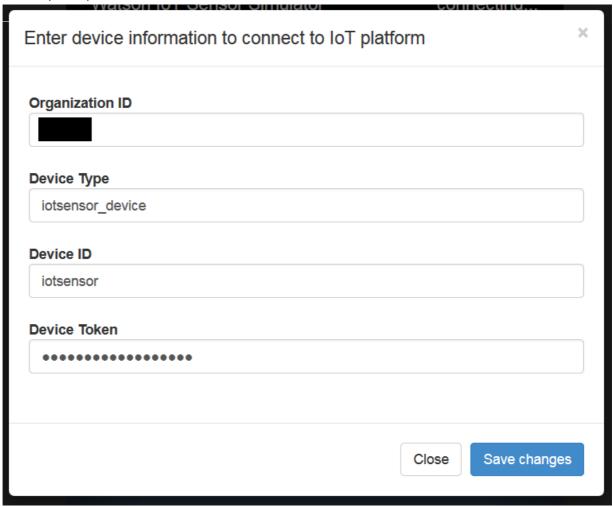


2 Connect the iotsensor to the Watson IoT Platform

This step connects the iotsensor to the registered device in your Watson IoT Platform organ

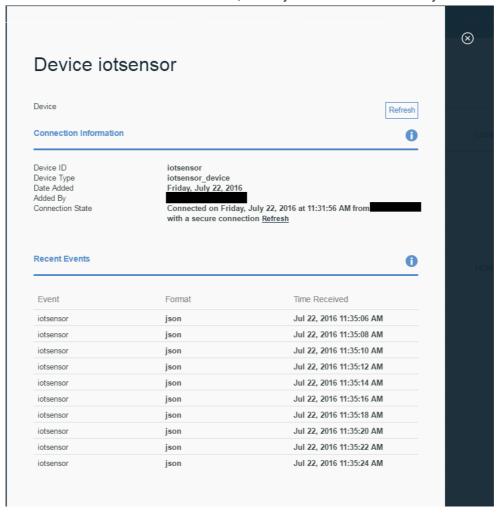
1. Go to: http://watson-iot-sensor-simulator.mybluemix.net/

2. When prompted, enter the device information to connect to Watson IoT Platform.



3. Verify that the connecting message changes to the name of your device, i.e. iotsensor. I connected to Watson IoT Platform.

4. In the Device browse dashboard, click your device and verify that data is being received



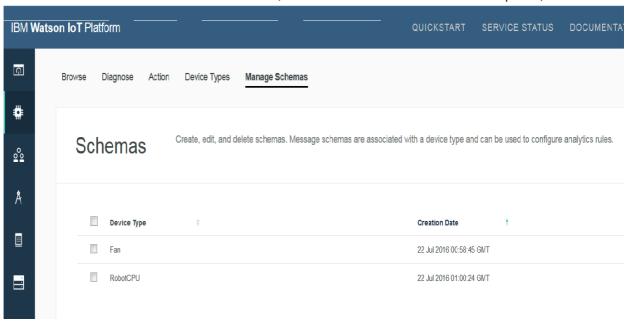
Optional step: Create a board and some cards

At this point, you can create a board and some cards from your Watson IoT Platform dashb can be used to keep track of device data, for example the temperature, humidity and objec sent by the iotsensor. To set up a new board follow these steps.

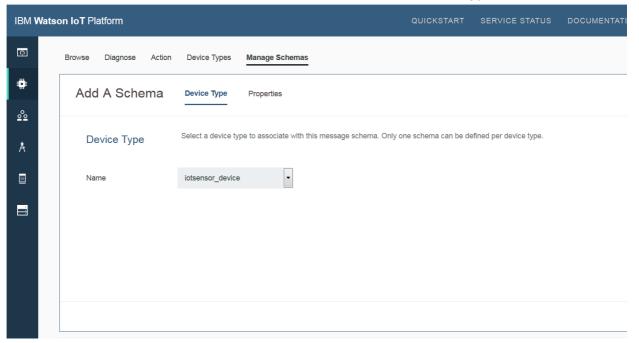
- 1. In your Watson IoT Platform dashboard click Create New Board in the upper right.
- 2. Give the board a name and description.
- 3. Click **Next** then **Create**.
- 4. Click on the board you have just created.
- 5. Click Add New Card in the upper right.
- 6. Select the style of visualization, and select the iotsensor as the data source.

4 Create an iotsensor_device Schema

To be able to create rules that are triggered based on the datapoints from your device prop these properties in a device type schema. 1. In the Watson IoT Platform dashboard, select **Devices** from the menu pane, then select

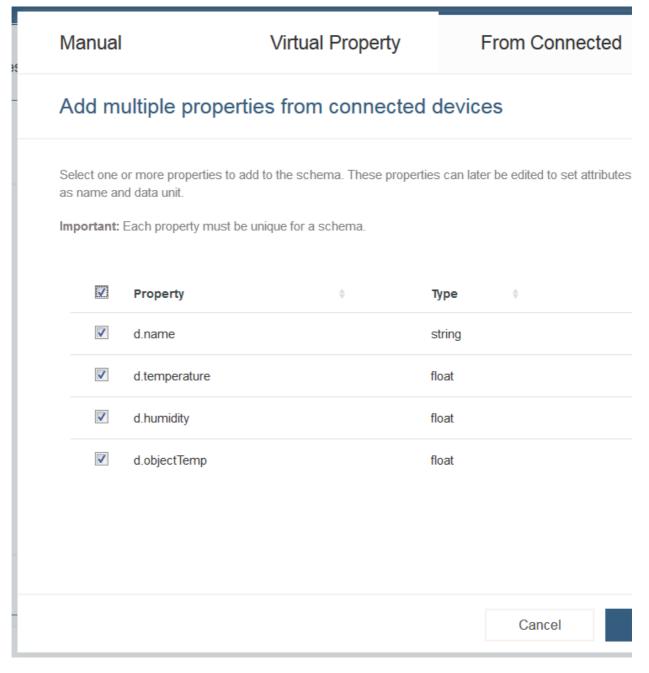


- 2. Click Add Schema.
- 3. In the Add a schema editor, select the iotsensor_device device type and click Next.



4. Click Add property.

5. Selected the **From Connected** tab.

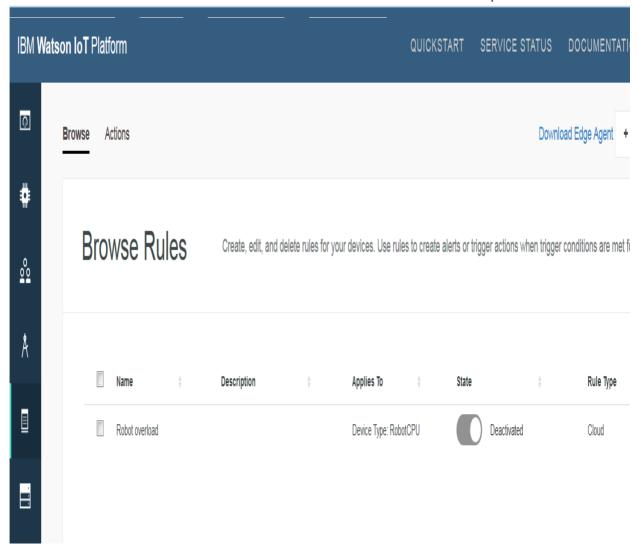


- 6. Select the following properties:
 - name
 - temperature
 - humidity
 - objectTemp
- 7. Click **OK** to save the schema.

5 Create iotsensor rules and actions

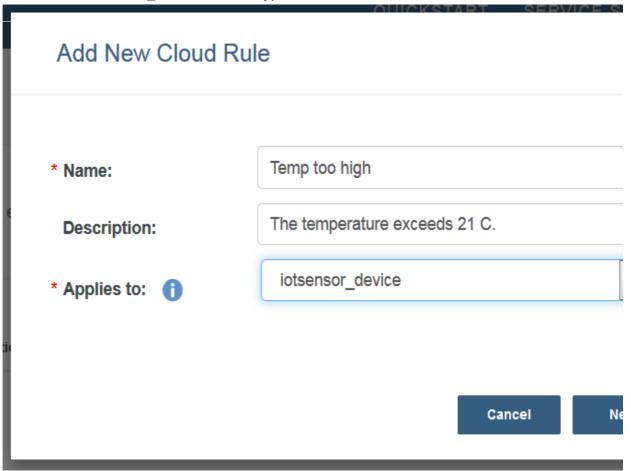
This step creates the rules and actions which will trigger based on data from the iotsensor.

1. In the Watson IoT Platform dashboard select Rules from the menu pane then click Cre

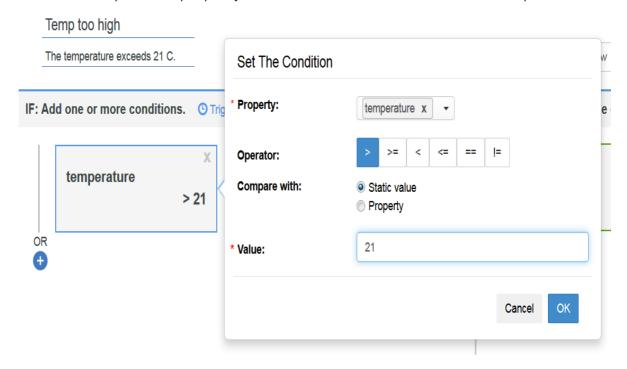


- 2. Click Create A Rule.
- 3. Name the rule **Temp too high**.

4. Select the **iotsensor_device** device type and then click **Next**.

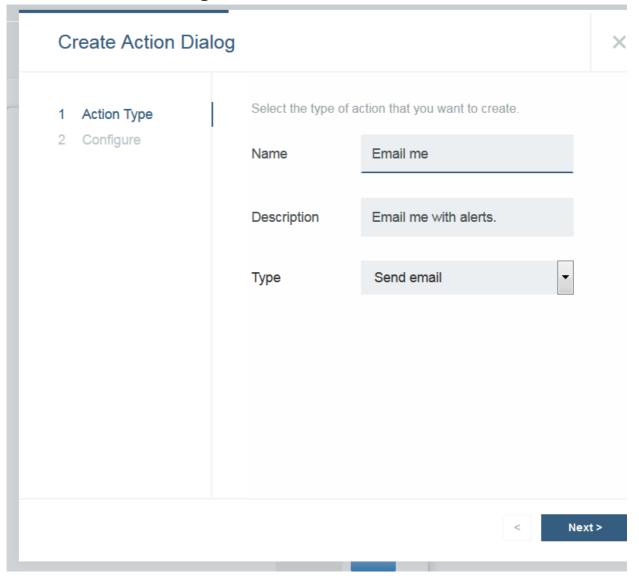


- 5. In the rule builder, click **New Condition** rule block to edit it.
- 6. Select the temperature property and enter 21 as the static value to compare to.



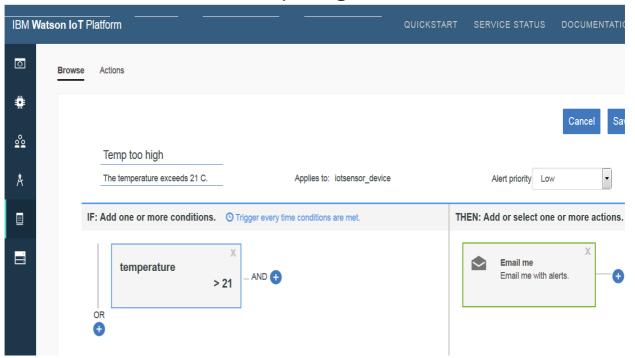
- 7. Click **OK** to save the condition.
- 8. Click the New Action block.

9. In the **Set The Action** dialog, click **Add action**.



- 10. Add the email action and click **OK**.
- 6 Activate the rule and send some data to test the rule

1. In the Rules browser, activate the Temp too high rule.



2. Open the iotsensor at http://watson-iot-sensor-simulator.mybluemix.net/ Note: If you a you must reconnect by using the same credentials as in step 2.

3.



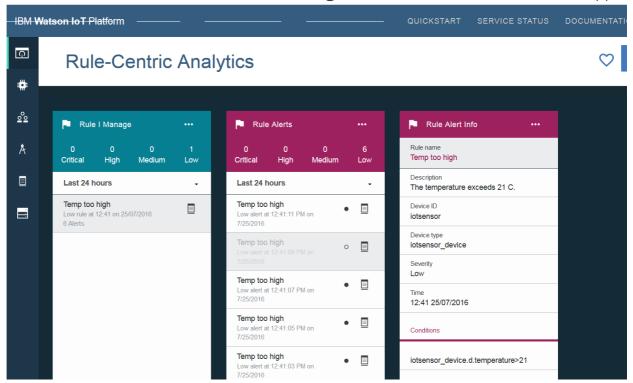
Use the up arrow to raise the temperature to 22 degrees.

⁷ View the dashboard alert and the email alert

Overview 1. In the Watson IoT Platform dashboard select **Boards** from the menu pane, the select the card to open it.

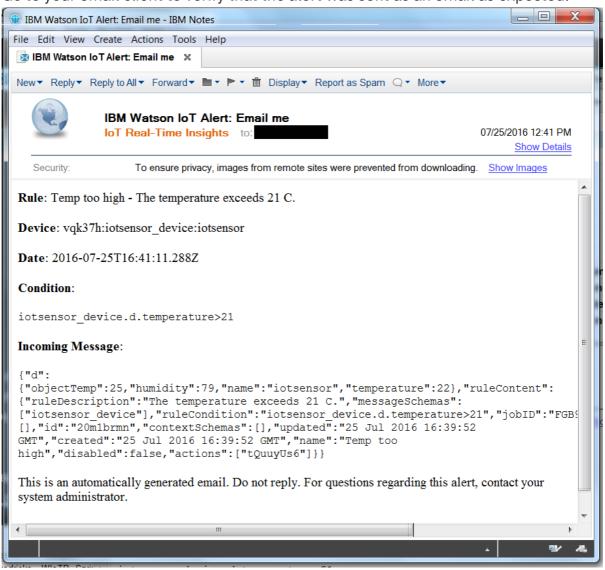
Ingredients

2. The rule is now included in the Rules I Manage card and alerts from this rule will appear



3. Select an alert instance to see the alert details, the triggering condition, the property darule was triggered, and the action that was taken.

4. Go to your email client to verify that the alert was sent as an email as expected.



TAGS ANALYTICS, IOT, IOT PLATFORM, REAL-TIME, REAL-TIME ANALYTICS, REAL-TIME INSIGHTS, RTI, RULES, WATSON IOT

by EdProsser

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