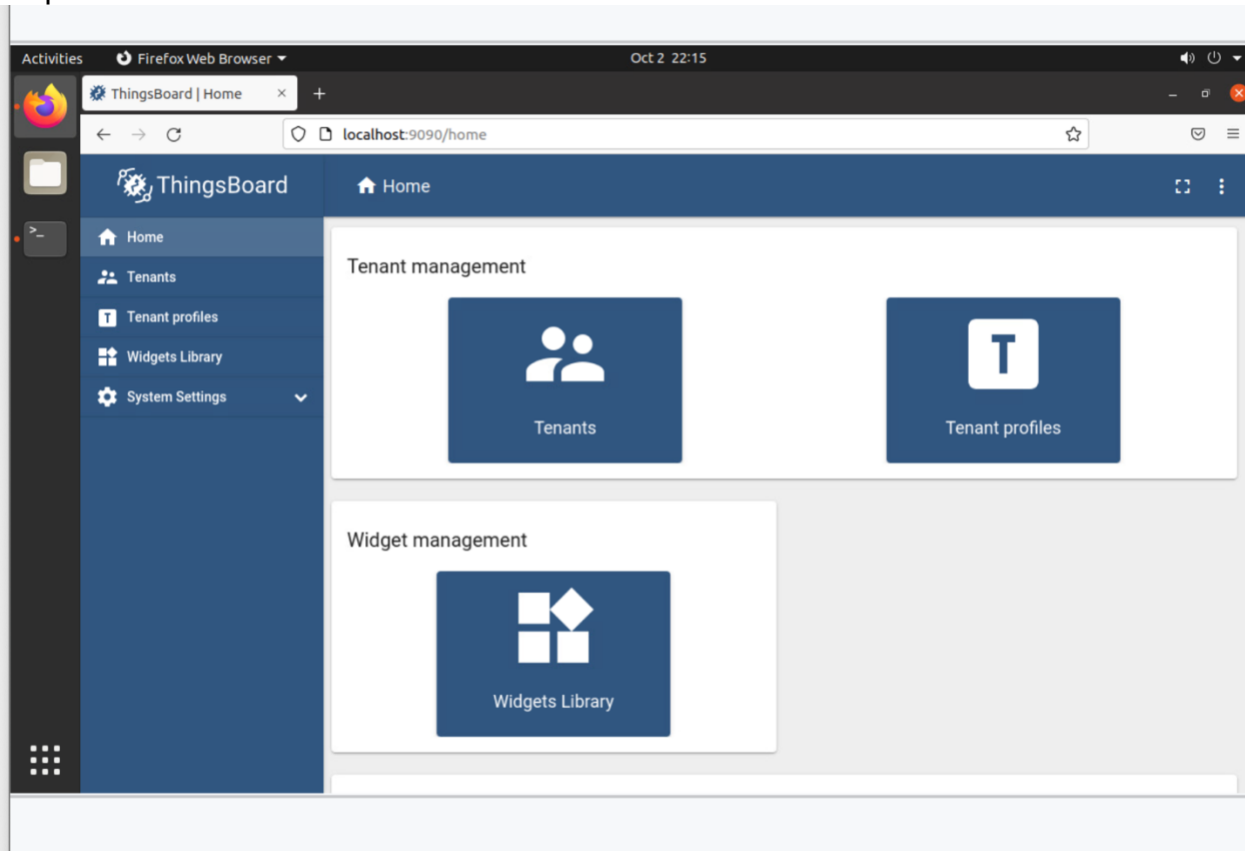


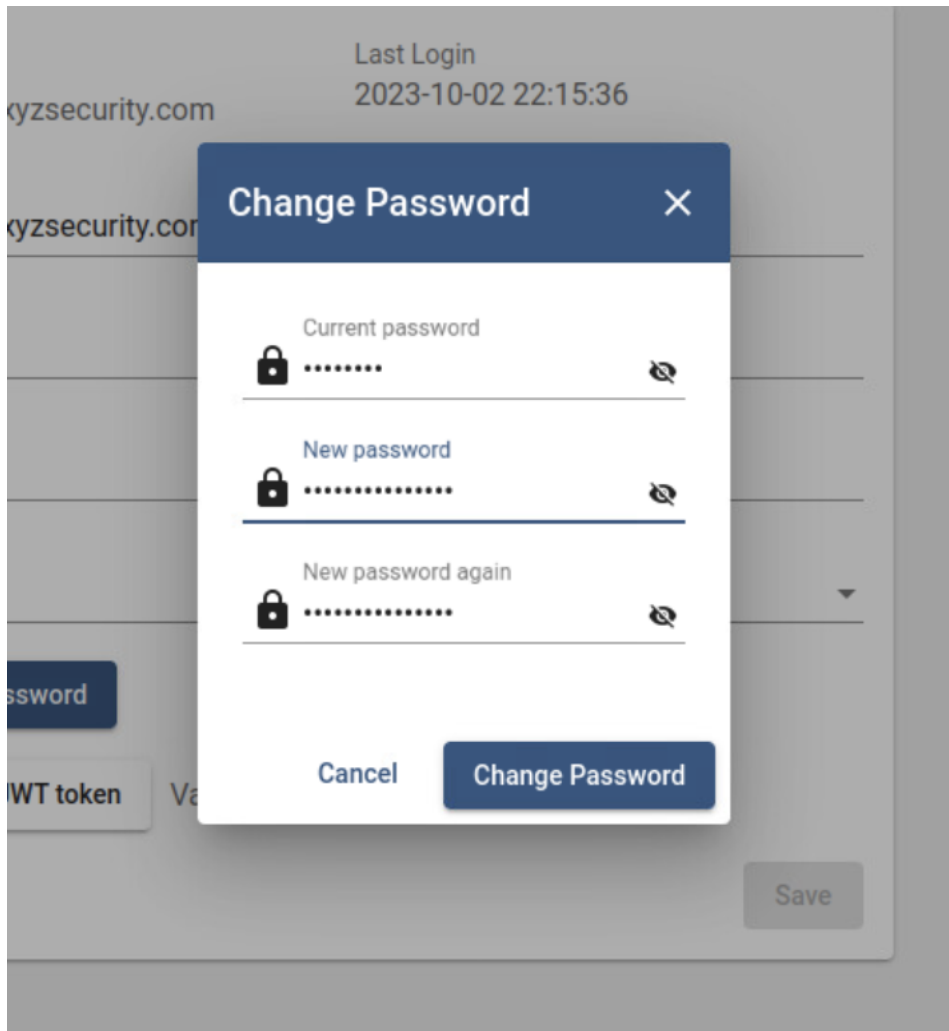
Peter Sanford
IT 2700
NetLab Lab 7
9/9/2023

1.1:

Step 7:






Step 10:

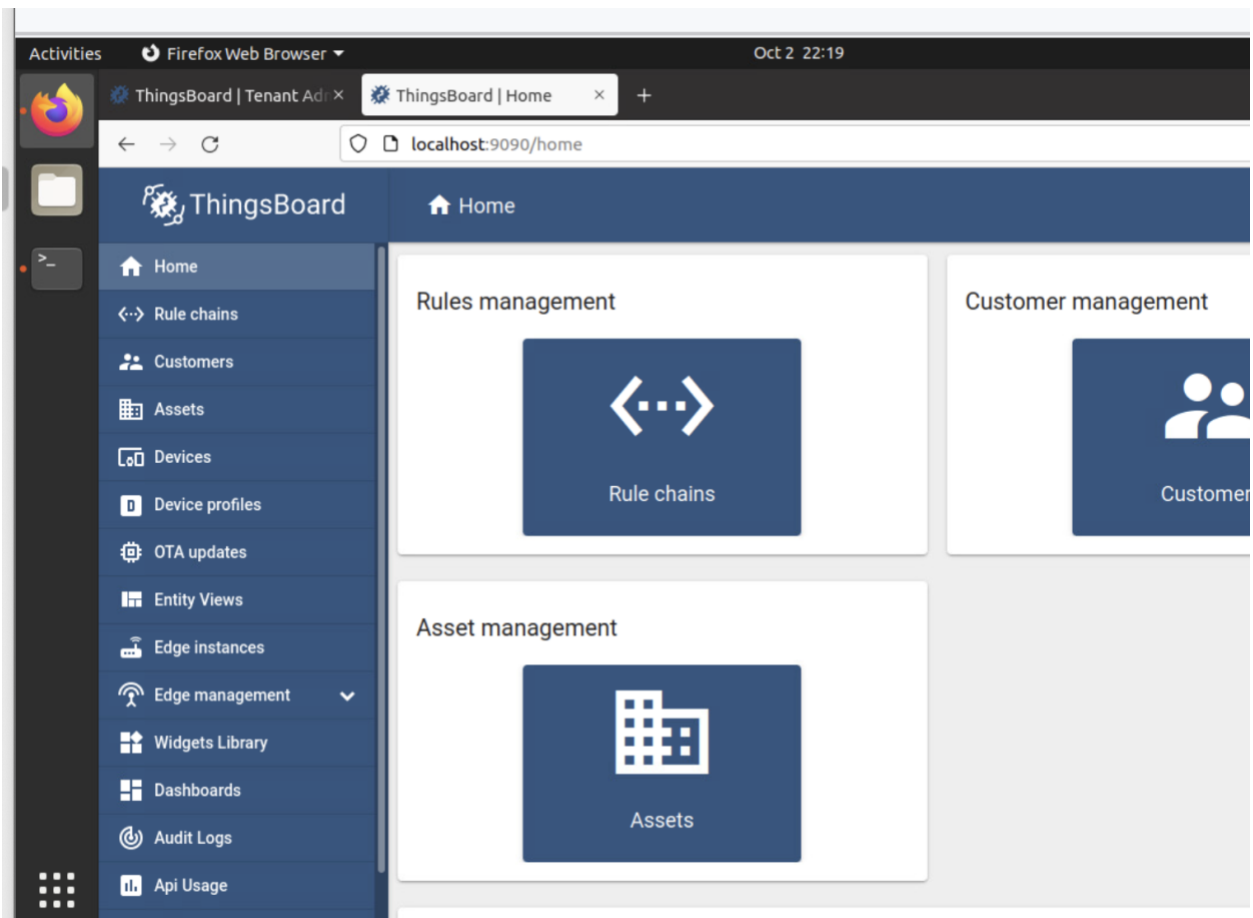


1.2:

Step 5:

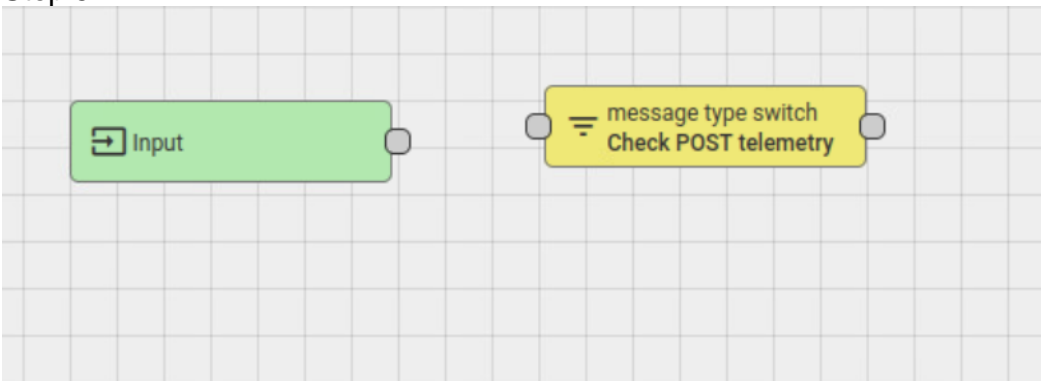
Tenants							  	
<input type="checkbox"/>	Created time ↓	Title	Tenant profile	Email	Country	City		
<input type="checkbox"/>	2023-10-02 22:17:59	netlab	Default				⋮	

Step 12:

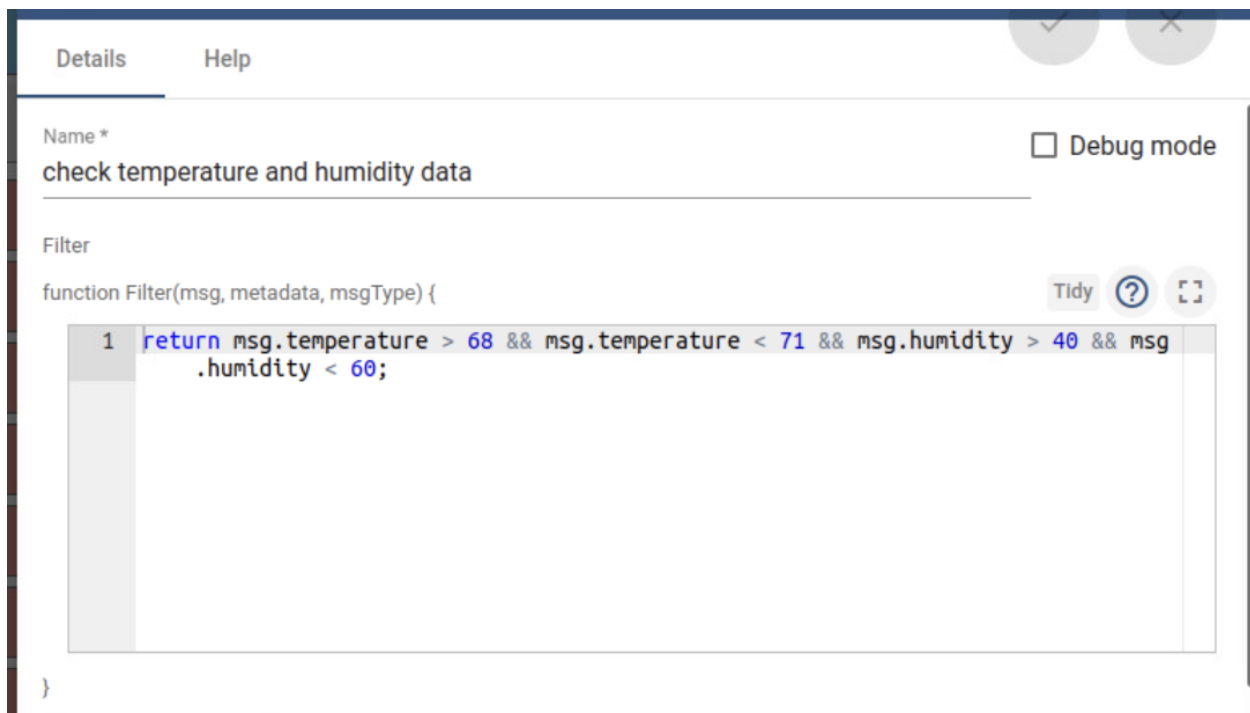


2.2:

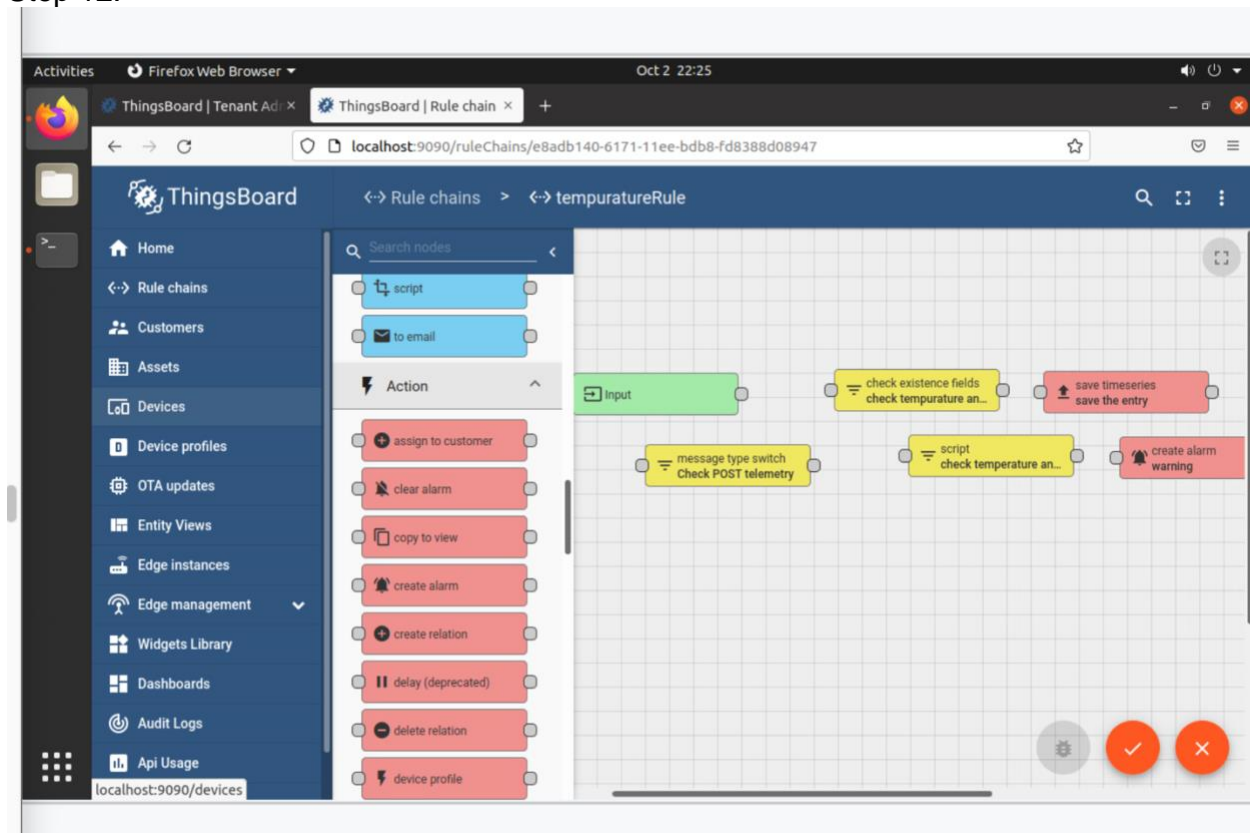
Step 5:



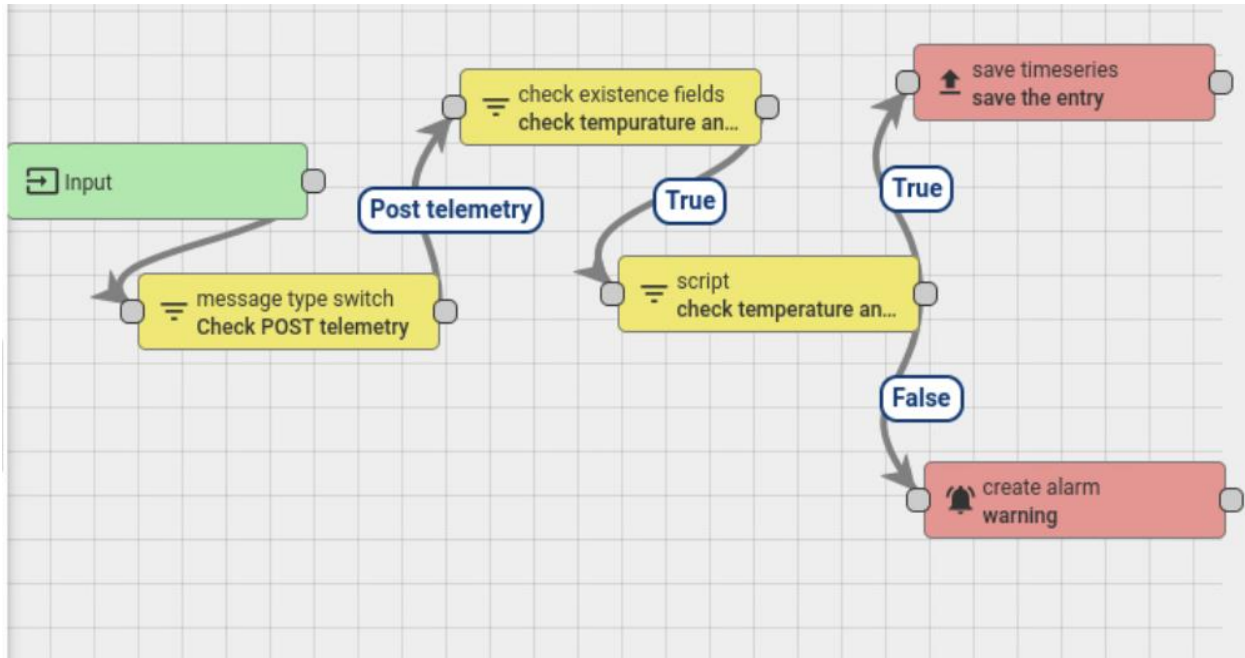
Step 9:



Step 12:



Step 20:



2.3:

Step 3:

Add new device
? ×

1 Device de...
2 Transport configur...
Optional
3 Alarm rule...
Optional
4 Device provisi...
Optional
5 Credent...
Optional
6 Custo...
Optional

Transport type *
MQTT
Enables advanced MQTT transport settings

MQTT device topic filters

Telemetry topic filter *
v1/devices/temperatureSensor/telemetry

Attributes topic filter *
v1/devices/temeratureSensor/attributes

Single [+] and multi-level [#] wildcards supported.
[+] is suitable for any topic filter level. Ex.: v1/devices/+/telemetry or +/devices/+/attributes.
[#] can replace the topic filter itself and must be the last symbol of the topic. Ex.: # or v1/devices/me/#.

MQTT device payload
JSON

Back
Next: Alarm rules

Cancel
Add

3:

Step 2:

temperatureSensor

Device details

Details

Attributes

Latest telemetry


Alarms

Events

Unassign from customer

Manage credentials

Delete device

 Copy device Id

 Copy access token

Assigned to customer

test_customer

Name

Step 5:

```
sysadmin@ubuntu: ~  
sysadmin@ubuntu:~$ mosquitto_pub -d -q 1 -h "127.0.0.1" -t "v1/devices/temperatureSensor/telemetry" -u "$t6NRjv2v8pxGjefIb233" -m '{"temperature":69,"humidity":56}'  
Client mosq-FsEdq1R8ugpjpGKKh7 sending CONNECT  
Client mosq-FsEdq1R8ugpjpGKKh7 received CONNACK (5)  
Connection error: Connection Refused: not authorised.  
Client mosq-FsEdq1R8ugpjpGKKh7 sending DISCONNECT  
sysadmin@ubuntu:~$ mosquitto_pub -d -q 1 -h "127.0.0.1" -t "v1/devices/temperatureSensor/telemetry" -u "$t6NRjv2v8pxGjefIb233" -m '{"temperature":69,"humidity":56}'  
Client mosq-kbbU5CRLyRwmaqDUjT sending CONNECT  
Client mosq-kbbU5CRLyRwmaqDUjT received CONNACK (5)  
Connection error: Connection Refused: not authorised.  
Client mosq-kbbU5CRLyRwmaqDUjT sending DISCONNECT  
sysadmin@ubuntu:~$ mosquitto_pub -d -q 1 -h "127.0.0.1" -t "v1/devices/temperatureSensor/telemetry" -u "t6NRjv2v8pxGjefIb233" -m '{"temperature":69,"humidity":56}'  
Client mosq-qeDkGoriIQRGJqUf02 sending CONNECT  
Client mosq-qeDkGoriIQRGJqUf02 received CONNACK (0)  
Client mosq-qeDkGoriIQRGJqUf02 sending PUBLISH (d0, q1, r0, m1, 'v1/devices/temperatureSensor/telemetry', ... (28 bytes))  
Client mosq-qeDkGoriIQRGJqUf02 received PUBACK (Mid: 1, RC:0)  
Client mosq-qeDkGoriIQRGJqUf02 sending DISCONNECT  
sysadmin@ubuntu:~$
```

Step 11:

Alarm details

Created time

2023-10-02 22:45:15

Originator

temperatureSensor

Start time

2023-10-02 22:45:15

End time

2023-10-02 22:45:15

Type

General Alarm

Severity

Critical

Status

Active Unacknowledged

Details

1 {

2 "temperature": 85,

3 "humidity": 50

4 }

Close

Acknowledge

Clear

Commentary:

In this lab we managed IoT devices and set up rules to have it save data or create alarms. I learned that there are ways to manage a lot of IoT devices and have them alert you if there's anything you want to know. Knowing this information, companies can manage their IoT devices all in one place, making it easier to keep in control and manage any vulnerabilities that they might introduce.