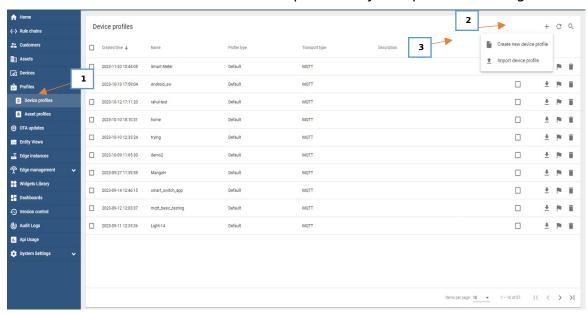
-login in phyclouds-http://phyclouds.com:8080id - students@thingsboard.orgpassword - students@sbcs

mqtt guide -

https://thingsboard.io/docs/reference/mqtt-api/ https://thingsboard.io/docs/user-guide/ui/devices/

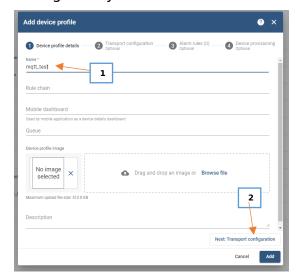
how to create device (with MQTT communication)-

1. for device we have to create device profile only one profile is enough.

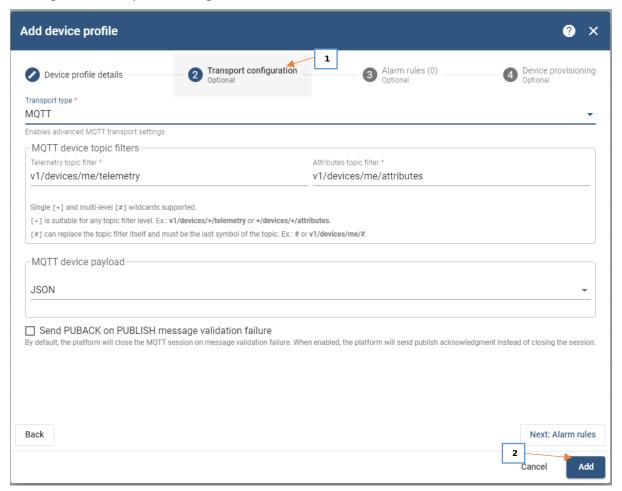


2. give all credential.

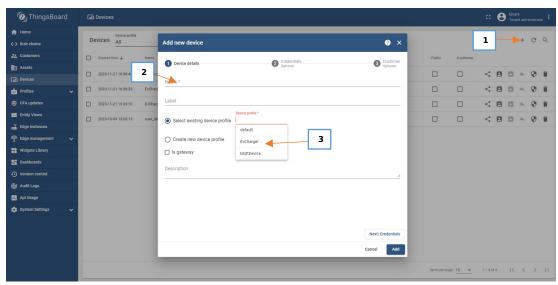
User give any name.



Next go to Transport Configuration -> Add



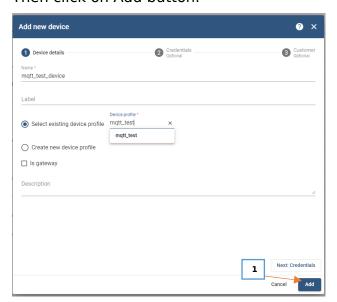
- 1. See devices on left side select then create device.
- *for communication access token we get from Devices.



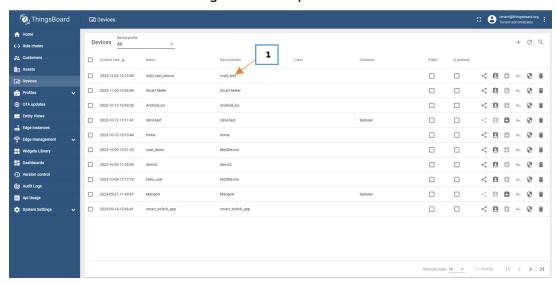
First remove default Device Profile then.

Give the Device profile what we created for mqtt communiocation.

Then click on Add button.



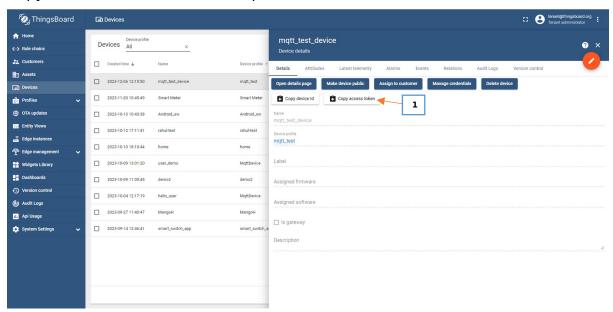
2. remember we have to give device profile in all devices what we created.



Here I am giving one python code -

```
import paho.mqtt.client as paho # mqtt library
import time
ACCESS_TOKEN = 'zaPXMf0hBbByWel7XPf7' # Token of your device
broker = "phyclouds.com" # host name
port = 1884 # data listening port
def on_publish(client, userdata, result): # create function for
    # callback
    print("data published to thingsboard \n")
client1 = paho.Client("iiscSmartSwitch") # create client object
client1.on_publish = on_publish # assign function to
# callback
client1.username_pw_set(ACCESS_TOKEN) # access token from
# thingsboard device
client1.connect(broker, port, keepalive=60) # establish connection
while True:
    payload = {"Humidity":60, "Temperature":25"}
    ret = client1.publish("v1/devices/me/telemetry", payload) # topic-
    # v1/devices/me/telemetry
    print("Please check LATEST TELEMETRY field of your device")
    print(payload)
    time.sleep(5)
```

Copy access token to connect mgtt.



To check publish data you have to go into device telemetry – *only send data into json format only.

