step-by-step command list to set up Mosquitto MQTT Broker on Raspberry Pi

Update & Upgrade Raspberry Pi

sudo apt update
sudo apt upgrade

Install Mosquitto Broker and Clients

sudo apt-get install mosquitto mosquitto-clients

Enable Mosquitto to Auto-Start on Boot

sudo systemctl enable mosquitto.service

Check Mosquitto Version (to verify installation)

mosquitto -v

Allow External MQTT Connections

Edit configuration file:

sudo nano /etc/mosquitto/mosquitto.conf

At the end of the file, add these lines:

listener 1883
allow_anonymous true

Then save & exit:

Ctrl + O → Enter → Ctrl + X

Reboot Raspberry Pi

sudo reboot

Test MQTT Publish/Subscribe (using terminals)

Terminal 1 (Subscriber):

mosquitto_sub -d -t "example/integer"

Terminal 2 (Publisher):

mosquitto_pub -d -t "example/integer" -m " this is the message 1 2 2 3 4 5 "