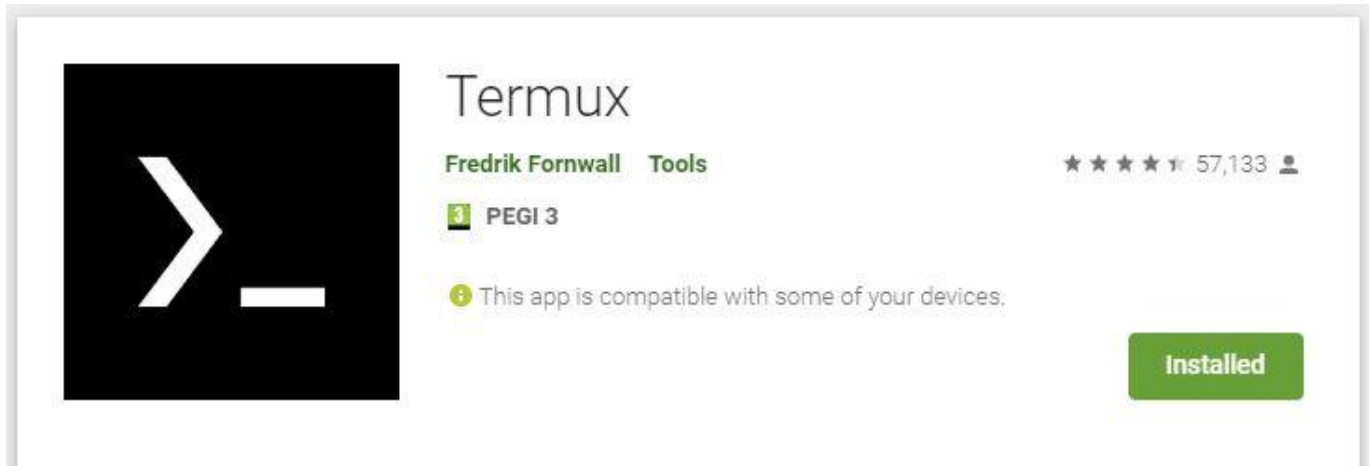


ANDROID SERVER

- To be able to use a phone or tablet with Android, it needs to be installed from Google Play - the TERMUX application.

-



We open the application after completing the installation and it is necessary to install the Node Red and MQTT Broker. Below you have the installation and configuration of these two software step by step.

1. [Node Red](#)

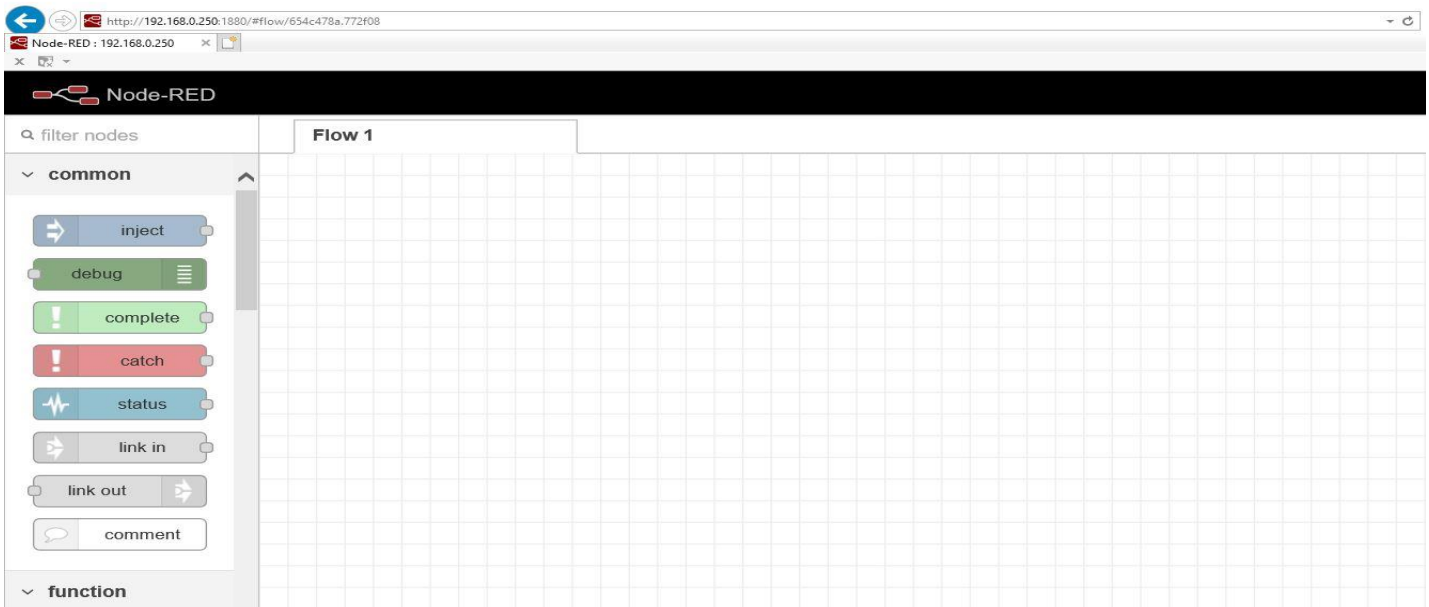
Server preparation for Node Red installation:

- ✓ Executa comanda > pkg update && pkg upgrade
- ✓ Executa comanda > pkg install coreutils nano nodejs
- ✓ Executa comanda > pkg install python2
- ✓ Executa comanda > npm install -g --unsafe-perm node-red

Start Node Red and check the connection for everything to be fine

- ✓ Executa comanda > node-red

Check the connection from another device on the same network as the server open the browser and enter the IP address of the local server followed by port 1880. Exp.
`xxx.xxx.xxx.xxx:1880`



If everything is fine we can continue with the configuration of Node Red in case the server restarts to start automatically Node Red. Back to the server.

✓ From the keyboard press > CTRL + C < to terminate the process

Next we will install Node-RED Library needed:

✓ Executa comanda > `cd ~/.node-red`



- ✓ Executa comanda > `npm install node-red-dashboard`
- ✓ Executa comanda > `npm install node-red-contrib-onvif`
- ✓ Executa comanda > `npm install node-red-node-openweathermap`
- ✓ Executa comanda > `npm install node-red-contrib-bigtimer`
- ✓ Executa comanda > `npm install node-red-contrib-moment`
- ✓ Executa comanda > `npm install node-red-contrib-throttle`

✓ Executa comanda > cd ..

2. [MQTT Broker](#)

And finally installing MQTT Broker

✓ Executa comanda > pkg install mosquitto

Close applications and reopen:

Terminal 1: executa comanda > "node-red"

Terminal 2: executa comanda > " mosquitto"

And the server configuration is complete!

Unfortunately, every time the application is restarted, the two programs must be restarted

Terminal 1: executa comanda > "node-red"

Terminal 2: executa comanda > " mosquitto"