



# Instalação do node-red

<https://nodered.org/docs/getting-started/raspberrypi>

instalação do git e de build-essential

```
sudo apt install build-essential git
```

Download e run do script de instalação do node red (ambos os termos devem ser aceites com Y)

```
bash <(curl -sL https://raw.githubusercontent.com/node-red/linux-installers/master/deb/update-nodejs-and-nodered)
```

o script seguinte será iniciado

```
Running Node-RED install for user pi at /home/pi on raspbian

This can take 20-30 minutes on the slower Pi versions - please wait.

Stop Node-RED                      ✓
Remove old version of Node-RED     ✓
Remove old version of Node.js      ✓
Install Node.js LTS
Clean npm cache
Install Node-RED core
Move global nodes to local
Install extra Pi nodes
Npm rebuild existing nodes
Add shortcut commands
Update systemd script

Any errors will be logged to /var/log/nodered-install.log
```

This script will:

- remove the pre-packaged version of Node-RED and Node.js if they are present
- install the current Node.js LTS release using the [NodeSource](#). If it detects Node.js is already installed from NodeSource, it will ensure it is at least Node 8, but otherwise leave it alone

- install the latest version of Node-RED using npm
- optionally install a collection of useful Pi-specific nodes
- setup Node-RED to run as a service and provide a set of commands to work with the service



a partir do comando `<apt-get install nodered>` pode ser instalado o nodered com os packages apropriados para o raspberry no entanto o npm não será instalado, pelo que é recomendado a utilização do script anterior

iniciar o node-red no boot do raspberry (altamente recomendado)

```
sudo systemctl enable nodered.service
```

Remover o node-red do boot do raspberry

```
sudo systemctl disable nodered.service
```

The following commands are provided to work with the service:

- `node-red-start` - this starts the Node-RED service and displays its log output. Pressing `Ctrl-C` or closing the window does *not* stop the service; it keeps running in the background
- `node-red-stop` - this stops the Node-RED service
- `node-red-restart` - this stops and restarts the Node-RED service
- `node-red-log` - this displays the log output of the service

flows para instalar em node red

- <https://flows.nodered.org/node/node-red-contrib-ttn>
- <https://flows.nodered.org/node/node-red-node-mysql>
- <https://flows.nodered.org/node/node-red-dashboard>

```
npm install node-red-dashboard node-red-contrib-ttn node-red-node-mysql
```