

# small docuemntation of p-node proyect

[https://p-node.org/documentation/pibox/piboxv2\\_image](https://p-node.org/documentation/pibox/piboxv2_image) and <https://www.p-node.org/documentation>

upload image

## upload image to rapsberry pi

image file in:

[http://www.p-node.org/pibox\\_img/pibox\\_V2.img](http://www.p-node.org/pibox_img/pibox_V2.img)

next use etcher

## upload image on terminal

see de devices coneted

```
df -h
```

upload iso(img)

```
sudo dd if=2018-04-18-raspbian-stretch.img of=/dev/sdb status=progress  
bs=1M
```

## manual configuration

### connet via ssh

```
ssh pi@<IP_of_the_pibox><code>  
**update**  
<code>  
cd pibox_V2  
git pull
```

if ssh dont work plese use and habiliate in raspberry pi config with , you can configurate wifi onthere:

```
sudo raspi-config<code>  
  
**change wifi (manual way)**  
<code>  
sudo nano /etc/hostapd/hostapd.conf
```

clear and preparete operating sistem

```
sudo apt-get update
sudo apt-get upgrade
sudo apt-get install git sox libav-tools oggfdw python3-pip
sudo pip3 install bs4
```

## install radio on rybn repo

```
cd
git clone http://git.rybn.org/rybn/pibox_V2.git
```

install dependencies

```
sudo apt-get install hostapd dnsmasq
```

## stop services to configure them

```
sudo systemctl stop dnsmasq
sudo systemctl stop hostapd
```

## create file to configure hospot

```
sudo nano /etc/hostapd/hostapd.conf
```

## configure network

```
interface=wlan0
driver=nl80211
ssid=myssid
hw_mode=g
channel=7
wmm_enabled=0
macaddr_acl=0
auth_algs=1
ignore_broadcast_ssid=0
```

save and close

## configure next file

```
sudo nano /etc/default/hostapd
```

## edit file

```
edit this #DAEMON_CONF="" for
  DAEMON_CONF="/etc/hostapd/hostapd.conf"
sudo cp /etc/dnsmasq.conf /etc/dnsmasq.conf_back
echo "" | sudo tee /etc/dnsmasq.conf
```

save and close

### create file for configurate hospot network

```
sudo nano /etc/dnsmasq.conf
```

copy and paste in file

```
interface=wlan0
# Use the require wireless interface - usually wlan0
dhcp-range=192.168.100.2,192.168.100.10,255.255.255.0,24h
```

save and close

### edit dhcpd.conf

```
sudo nano /etc/dhcpd.conf
```

### copy and paste this configuration

```
interface wlan0
static ip_address=192.168.100.1/24
nohook wpa_supplicant
```

now can start services

```
sudo systemctl restart dhcpd
sudo systemctl unmask hostapd
sudo systemctl start hostapd
sudo systemctl enable hostapd
sudo systemctl start dnsmasq
<code>
** set hospot name **

<code> sudo hostnamectl set-hostname "pibox"
```

put this after exit 0 sudo nano /etc/rc.local like this

```
#!/bin/sh -e
#
# rc.local
#
# This script is executed at the end of each multiuser runlevel.
# Make sure that the script will "exit 0" on success or any other
# value on error.
#
# In order to enable or disable this script just change the
execution
# bits.
#
```

```
# By default this script does nothing.
```

```
# Print the IP address
_IP=$(hostname -I) || true
if [ "$_IP" ]; then
    printf "My IP address is %s\n" "$_IP"
fi
```

```
this /usr/bin/python3 /home/pi/pibox_V2/go.py 2> /home/pi/pibox_V2/error_log.txt >/dev/null &
```

```
exit 0
```

```
/usr/bin/python3 /home/pi/pibox_V2/go.py 2> /home/pi/pibox_V2/error_log.txt >/dev/null & create rules
```

```
put this sudo nano /etc/udev/rules.d/70-persistent-net.rules
```

```
ACTION=="add", SUBSYSTEM=="net", DRIVERS=="r8188eu", NAME="wlan1"
```

```
shutdown sudo halt
```

```
wifi ssid pibox
```

```
password pnodeaccesspass
```

```
en la ip 192.168.100.1
```

<https://p-node.org/documentation/pibox/piboxv2>

[https://p-node.org/documentation/pibox/pibox\\_antenna](https://p-node.org/documentation/pibox/pibox_antenna)

From:  
<https://wiki.unloquer.org/> -

Permanent link:  
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Last update: **2021/09/11 18:19**

