

Set a static IP address with nmtui on Raspberry Pi OS 12 'Bookworm'

This Wikipage has been integrated by aeoneros from the Original Source: [jeffgeerling](#)

Old advice for setting a Raspberry Pi IP address to a static IP on the Pi itself said to edit the `/etc/dhcpd.conf` file, and add it there.

But on Raspberry Pi OS 12 and later, `dhcpd` is no longer used, everything goes through Network Manager, which is configured via `nmcli` or `nmtui`. If you're booting into the Pi OS desktop environment, [editing the IP settings there is pretty easy](#).

You can also configure a static IP entirely via `nmcli` without using the UI; see [this article on nmcli](#) from Cyberciti.biz.

But setting a static IP via the command line is a little different.

Install `nmtui`

The `nmtui` Command is Part of the Network-Manager Package, to install use this Commands:

```
# For Debian-based distributions
sudo apt-get install network-manager

# For RPM-based distributions
sudo yum install NetworkManager-tui
```

Check for Device Status

First, get the interface information—you can get a list of all interfaces with `nmcli device status`:

DEVICE	TYPE	STATE	CONNECTION
eth0	ethernet	connected	Wired connection 1
docker_gwbridge	bridge	connected (externally)	docker_gwbridge
lo	loopback	connected (externally)	lo
docker0	bridge	connected (externally)	docker0
wlan0	wifi	disconnected	--

In my case, I want to set an IP on `eth0`, the built-in Ethernet.

Set static IPv4 Address

I can get all the current information about that port with `nmcli device show eth0`, and I can edit the connection using the terminal UI (`nmtui`):

```
$ sudo nmtui edit "Wired connection 1"
```

Go through each setting adding in at least an IPv4 address, Gateway, and DNS Server, for example:

Edit Connection

Profile name: Wired connection 1
Device: eth0 (2C:CF:67:33:5D:4A)

= ETHERNET <Show>
= 802.1X SECURITY <Show>

= IPv4 CONFIGURATION <Manual> <Hide>
Addresses: 192.168.0.0 <Remove> <Add...>
Gateway: 192.168.0.0
DNS servers: 192.168.0.0 <Remove> <Add...>
Search domains: <Add...>

Routing (No custom routes) <Edit...>
[] Never use this network for default route
[] Ignore automatically obtained routes
[] Ignore automatically obtained DNS parameters
[] Require IPv4 addressing for this connection

= IPv6 CONFIGURATION <Automatic> <Show>
[X] Automatically connect
[X] Available to all users

<Cancel> <OK>

The IP's are just for Show. Change them to fit your Setup.
Then go down to the bottom and select 'OK'.

This saves the static IP configuration, but doesn't *apply* it immediately. To apply the changes, you need to restart NetworkManager:

```
$ sudo systemctl restart NetworkManager
```

Then if you run `nmcli device show eth0`, you should see the new IP address (the old one might still be attached to the interface at the same time until you reboot):

```
root@swarmpi1:~# nmcli device show eth0
GENERAL.DEVICE:           eth0
GENERAL.TYPE:             ethernet
GENERAL.MTU:              1500
GENERAL.STATE:            100 (connected)
GENERAL.CONNECTION:       Wired connection 1
GENERAL.CON-PATH:         /org/freedesktop/NetworkManager/ActiveConnection/2
WIRED-PROPERTIES.CARRIER: on
IP4.ADDRESS[1]:           192.168.0.0/24
IP4.GATEWAY:              192.168.0.0
```

You successfully changed the IPv4 Address from your PI :)

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