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How to configure static IP address on Ubuntu 18.10 Cosmic Cuttlefish Linux

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Contents

Objective

The objective is to configure static IP address on Ubuntu 18.10 Cosmic Cuttlefish Linux

Operating System and Software Versions

- **Operating System:** - Ubuntu 18.10 Cosmic Cuttlefish Linux

Requirements

Privileged access to Ubuntu 18.10 system will be required.

Difficulty

EASY

Conventions

- **#** - requires given linux commands (/linux-commands) to be executed with root privileges either directly as a root user or by use of `sudo` command
- **$** - requires given linux commands (/linux-commands) to be executed as a regular non-privileged user

Instructions

Ubuntu Desktop

The simplest approach on how to configure a static IP address on Ubuntu 18.10 Desktop is via GNOME graphical user interface:

[(/images/01-configure-static-ip-ubuntu-18.10-cosmic.png)](/images/01-configure-static-ip-ubuntu-18.10-cosmic.png)

Click on the top right network icon and select settings of the network interface you wish to configure to use a static IP address.

[(/images/02-configure-static-ip-ubuntu-18.10-cosmic.png)](/images/02-configure-static-ip-ubuntu-18.10-cosmic.png)

Click on the settings icon to start configuration.

[(/images/03-configure-static-ip-ubuntu-18.10-cosmic.png)](/images/03-configure-static-ip-ubuntu-18.10-cosmic.png)

Select `IPv4` tab.

[(/images/04-configure-static-ip-ubuntu-18.10-cosmic.png)](/images/04-configure-static-ip-ubuntu-18.10-cosmic.png)

Select manual and enter your desired static IP address, netmask, gateway and DNS settings. Once ready click `Apply` button.

[(/images/05-configure-static-ip-ubuntu-18.10-cosmic.png)](/images/05-configure-static-ip-ubuntu-18.10-cosmic.png)

Turn OFF and ON switch to apply your new network configuration settings.

(/images/06-configure-static-ip-ubuntu-18.10-cosmic.png)

Click on the network settings icon once again to confirm your new IP address settings.

Ubuntu Server

To configure a static IP address on your Ubuntu 18.10 server you need to modify a relevant netplan network configuration file within `/etc/netplan/` directory.

For example you might find there a default netplan configuration file called `50-cloud-init.yaml` with a following content using the `networkd` deamon to configure your network interface via DHCP:

```
 1   # This file is generated from information p
 2   # the datasource.   Changes to it will not p
 3   # To disable cloud-init's network configurc
 4   # /etc/cloud/cloud.cfg.d/99-disable-network
 5   # network: {config: disabled}
 6   network:
 7       ethernets:
 8           enp0s3:
 9               addresses: []
10               dhcp4: true
11       version: 2
12
```

 (/images/07-configure-static-ip-ubuntu-18.10-cosmic.png)

Default dynamic IP address settings on Ubuntu 18.10 Server

To set your network interface `enp0s3` to static IP address `192.168.1.233` with gateway `192.168.1.1` and DNS server as `8.8.8.8` and `8.8.4.4` replace the above configuration with the one below.

> **WARNING**:
> *You must adhere to a correct code indent for each line of the block. In other words the prefix number of spaces for each line is important. Othersiwe you may end up with an error message similar to:* **Invalid YAML at //etc/netplan/01-netcfg.yaml line 7 column 6: did not find expected key**

```
1   # This file is generated from information p
2   # the datasource.  Changes to it will not p
3   # To disable cloud-init's network configurc
4   # /etc/cloud/cloud.cfg.d/99-disable-network
5   # network: {config: disabled}
6   network:
7     version: 2
8     renderer: networkd
9     ethernets:
10      enp0s3:
11        dhcp4: no
12        addresses: [192.168.1.233/24]
13        gateway4: 192.168.1.1
14        nameservers:
15          addresses: [8.8.8.8,8.8.4.4]
```

[(/images/08-configure-static-ip-ubuntu-18.10-cosmic.png)](/images/08-configure-static-ip-ubuntu-18.10-cosmic.png)
Ubuntu 18.10 server configured with static IP address.

Once ready apply changes with:

```
$ sudo netplan apply
```

In case you run into some issues execute:

```
$ sudo netplan --debug apply
```

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