

Setting a Static IP on Ubuntu Server (Netplan)

Our 3 splunk clusters all need a Static IP address to avoid any new addresses assigned to our servers to mess up the configurations. This documentation will take through setting up Static IP on the 3 VMs.

NOTE: This documentation address the issues of networking and I will only show how to set a Static IP on the index VM, I will perform the same step for other 2 machines each with its own IP address assigned to it. **Before we start, i need to ssh into every machine and set the static IP address.**

step 1. Find your network interface name

run the following command to get the name of the interface:

```
ip link
```

```
[index@indexer-node]-(/etc/netplan)
> ip link
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: enp1s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP mode DEFAULT group default qlen 1000
    link/ether 52:54:00:03:c0:a0 brd ff:ff:ff:ff:ff:ff
[index@indexer-node]-(/etc/netplan)
>
```

In my case, my NIC name is **enp1s0**.

>> \$ _____ [09 April 2025]

step 2. Edit Netplan configuration file

we need to edit the netplan configuration file at the ect dicrectory using vim:

```
sudo vim /etc/netplan/50-cloud-init.yaml
```

```
network:
  version: 2
  ethernets:
    enp1s0:
      dhcp4: false
      addresses:
        - 192.168.122.10/24      #index machine IP
```

```
nameservers:
  addresses:
    - 8.8.8.8
    - 1.1.1.1
routes:
  - to: 0.0.0.0/0
    via: 192.168.122.0/24    #my phone's gateway IP
```

save the file and apply the changes with this command:

sudo netplan apply

NOTE: there's a mistake with the comment where it says "[#my phone's gateway IP](#)", It was supposed to say "[#the virtual network gateway IP](#)". QEMU creates a virtual network interface for communication .

>> \$ _____[09 April 2025]

In the YAML file, note where it says " - 192.168.122.10 [#index machine IP](#)". We gonna create edit the same file in the other 2 VMs and set the same gateway and different Static IP addresses.

For Search VM static IP:

– 192.168.122.11/[24](#)

For Forwarder VM static IP:

– 192.168.122.12/[24](#)