

# **BEGIN**

## **Static IP Setup**

**Version 1.0.0**

# Contents

Copyright Notice	3
Document Revision History	4
Static IP Setup	5

## Copyright Notice

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# Document Revision History

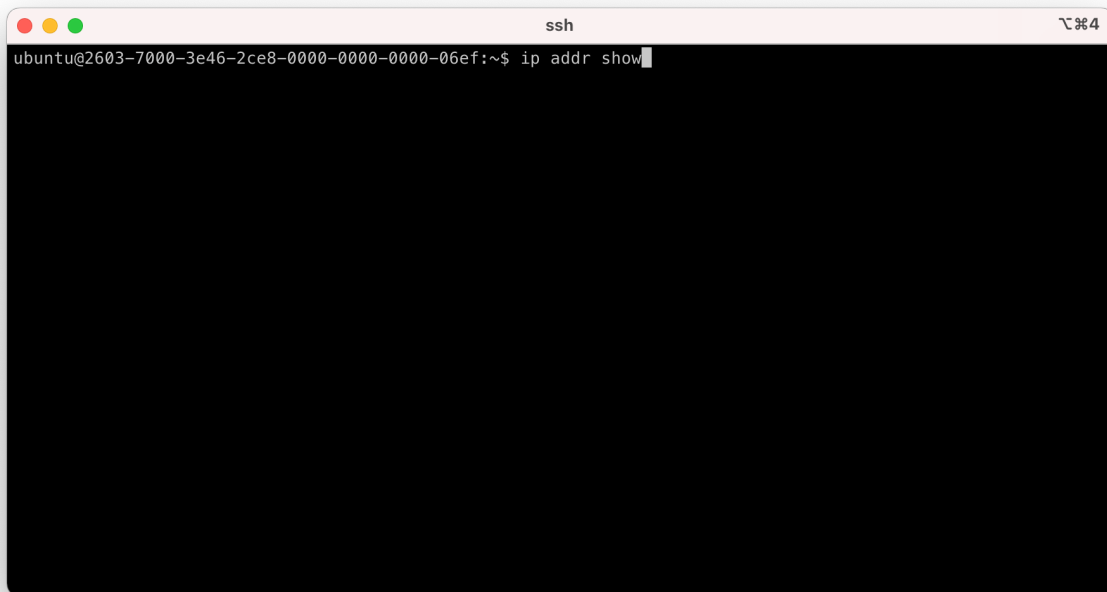
**Wednesday, May 12th, 2021**

- Initial release of documentation.

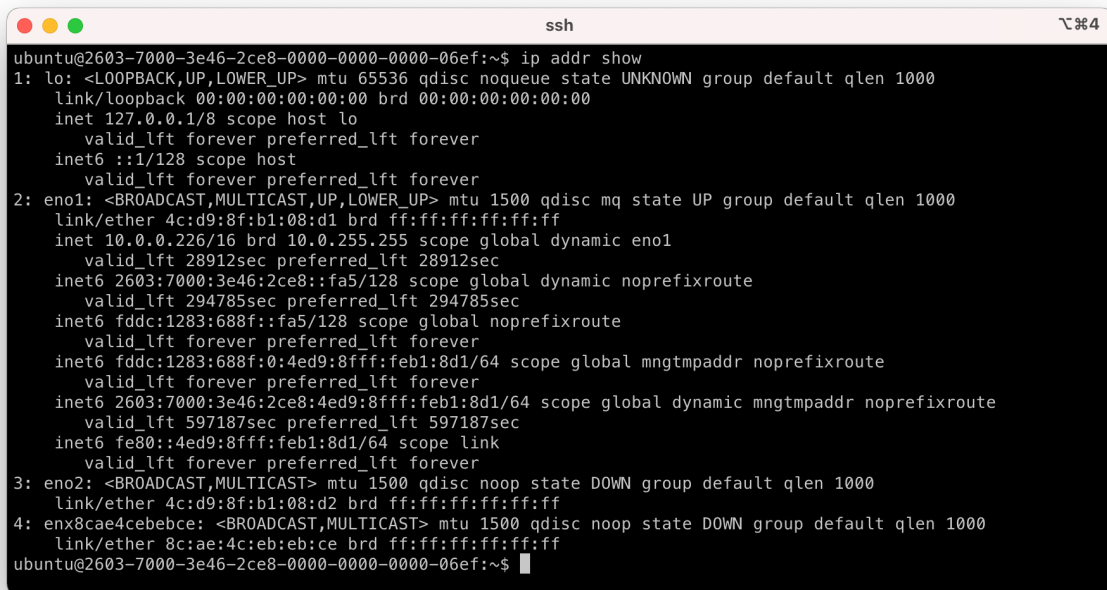
# Static IP Setup

Start an SSH session to the Begin server.

Type **ip addr show** to see the current IP address setup.



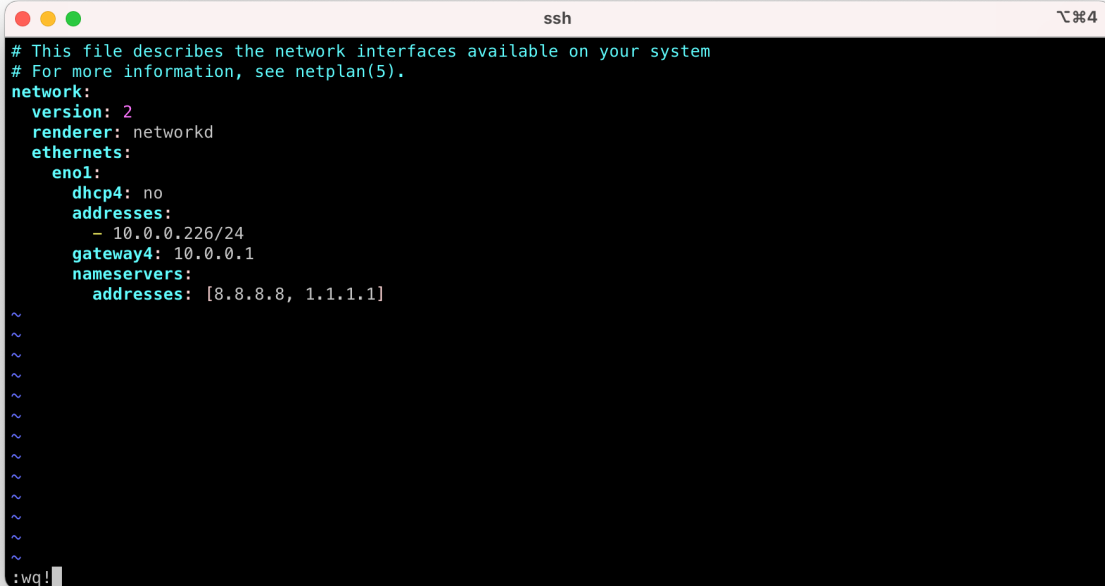
```
ssh
ubuntu@2603-7000-3e46-2ce8-0000-0000-0000-06ef:~$ ip addr show
```



```
ssh
ubuntu@2603-7000-3e46-2ce8-0000-0000-0000-06ef:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eno1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 4c:d9:8f:b1:08:d1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.226/16 brd 10.0.255.255 scope global dynamic eno1
        valid_lft 28912sec preferred_lft 28912sec
    inet6 2603:7000:3e46:2ce8::fa5/128 scope global dynamic noprefixroute
        valid_lft 294785sec preferred_lft 294785sec
    inet6 fddc:1283:688f::fa5/128 scope global noprefixroute
        valid_lft forever preferred_lft forever
    inet6 fddc:1283:688f:0:4ed9:8fff:feb1:8d1/64 scope global mngtmpaddr noprefixroute
        valid_lft forever preferred_lft forever
    inet6 2603:7000:3e46:2ce8:4ed9:8fff:feb1:8d1/64 scope global dynamic mngtmpaddr noprefixroute
        valid_lft 597187sec preferred_lft 597187sec
    inet6 fe80::4ed9:8fff:feb1:8d1/64 scope link
        valid_lft forever preferred_lft forever
3: eno2: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 4c:d9:8f:b1:08:d2 brd ff:ff:ff:ff:ff:ff
4: enx8cae4cebebc: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 8c:ae:4c:eb:eb:ce brd ff:ff:ff:ff:ff:ff
ubuntu@2603-7000-3e46-2ce8-0000-0000-0000-06ef:~$
```

A terminal window with a black background and white text. The title bar at the top shows three colored window control buttons (red, yellow, green) on the left, the text "ssh" in the center, and a zoom icon followed by the number "4" on the right. The terminal content shows a command prompt "ubuntu@2603-7000-3e46-2ce8-0000-0000-0000-06ef:~\$" followed by the command "sudo vim /etc/netplan/01-netcfg.yaml". The cursor is positioned at the end of the command line.[illegible]

Edit `/etc/netplan/01-netcfg.yaml` to include your preferred settings.

A terminal window titled 'ssh' with a terminal icon and '4' in the top right corner. The window displays the contents of the file /etc/netplan/01-netcfg.yaml. The text is as follows:

```
# This file describes the network interfaces available on your system
# For more information, see netplan(5).
network:
  version: 2
  renderer: networkd
  ethernets:
    enol:
      dhcp4: no
      addresses:
        - 10.0.0.226/24
      gateway4: 10.0.0.1
      nameservers:
        addresses: [8.8.8.8, 1.1.1.1]
```

On the left side of the terminal, there is a vertical column of tilde (~) characters. At the bottom left, the prompt ':wq!' is visible with a cursor.


Type **sudo netplan apply** to apply the settings.

A terminal window titled 'ssh' with a terminal icon and '4' in the top right corner. The window has a light pink title bar with three colored window control buttons (red, yellow, green) on the left. The terminal content shows a prompt 'ubuntu@2603-7000-3e46-2ce8-0000-0000-0000-06ef:~\$' followed by the command 'sudo netplan apply' with a cursor at the end. The terminal background is black, and the text is white.

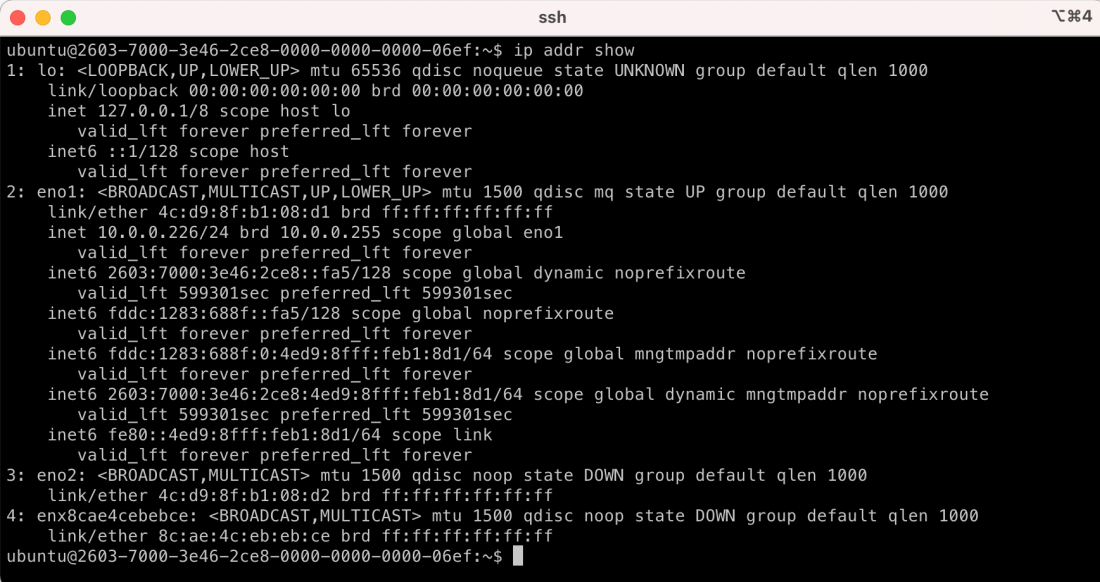
```
ubuntu@2603-7000-3e46-2ce8-0000-0000-0000-06ef:~$ sudo netplan apply
```



Type `ip addr show` to confirm the new settings.



```
ssh
ubuntu@2603-7000-3e46-2ce8-0000-0000-0000-06ef:~$ ip addr show
```



```
ssh
ubuntu@2603-7000-3e46-2ce8-0000-0000-0000-06ef:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eno1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 4c:d9:8f:b1:08:d1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.226/24 brd 10.0.0.255 scope global eno1
        valid_lft forever preferred_lft forever
    inet6 2603:7000:3e46:2ce8::fa5/128 scope global dynamic noprefixroute
        valid_lft 599301sec preferred_lft 599301sec
    inet6 fddc:1283:688f::fa5/128 scope global noprefixroute
        valid_lft forever preferred_lft forever
    inet6 fddc:1283:688f:0:4ed9:8fff:feb1:8d1/64 scope global mngtmpaddr noprefixroute
        valid_lft forever preferred_lft forever
    inet6 2603:7000:3e46:2ce8:4ed9:8fff:feb1:8d1/64 scope global dynamic mngtmpaddr noprefixroute
        valid_lft 599301sec preferred_lft 599301sec
    inet6 fe80::4ed9:8fff:feb1:8d1/64 scope link
        valid_lft forever preferred_lft forever
3: eno2: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 4c:d9:8f:b1:08:d2 brd ff:ff:ff:ff:ff:ff
4: enx8cae4cebebc: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 8c:ae:4c:eb:eb:ce brd ff:ff:ff:ff:ff:ff
ubuntu@2603-7000-3e46-2ce8-0000-0000-0000-06ef:~$
```