

How to assign IP for your network card

The basics for any network based on *nix hosts is the Transport Control Protocol/ Internet Protocol (TCP/IP) combination of three protocols. This combination consists of the Internet Protocol (IP), Transport Control Protocol (TCP), and Universal Datagram Protocol (UDP).

By Default most of the users configure their network card during the installation of Ubuntu. You can however, use the `ifconfig` command at the shell prompt or Ubuntu's graphical network configuration tools, such as `network-admin`, to edit your system's network device information or to add or remove network devices on your system

Configure Network Interface Using Command-Line

You can configure a network interface from the command line using the networking utilities. You configure your network client hosts with the command line by using commands to change your current settings or by editing a number of system files.

Configuring DHCP address for your network card

If you want to configure DHCP address you need to edit the `/etc/network/interfaces` and you need to enter the following lines replace `eth0` with your network interface card

```
sudo vi /etc/network/interfaces
```

```
# The primary network interface - use DHCP to find our address  
auto eth0  
iface eth0 inet dhcp
```

Configuring Static IP address for your network card

If you want to configure Static IP address you need to edit the `/etc/network/interfaces` and you need to enter the following lines replace `eth0` with your network interface card

```
sudo vi /etc/network/interfaces
```

```
# The primary network interface
```

```
auto eth0  
iface eth0 inet static  
address 192.168.3.90
```

```
gateway 192.168.3.1  
netmask 255.255.255.0  
network 192.168.3.0  
broadcast 192.168.3.255
```

After entering all the details you need to restart networking services using the following command

```
sudo /etc/init.d/networking restart
```

How to assign static IP address using *ifconfig* command (*temporary IP*)

You can set temporary static IP address for you network card using `ifconfig` command . You do not need to restart the networking service in `/etc/init.d` and whenever you log off your current account the IP address that had set before resets . The following syntax is to do this task.

```
sudo ifconfig eth0 192.168.3.90 netmask 255.255.255.0
```

You can set the default gateway using the ***route*** command and the following is the syntax to do the task.

```
sudo route add default gw 192.168.3.1
```

These are some other cammands that you can also use them:

- *ifconfig*
- *ifup*
- *ifdown*
- *dhclient*
- *route*