



## Exercise 35.1: Static Configuration of a Network Interface



### Please Note

You may have to use a different network interface name than `eth0`. You can most easily do this exercise with **nmtui** or your system's graphical interface. We will present a command line solution, but beware details may not exactly fit your distribution flavor or fashion.

1. Show your current IP address, default route and **DNS** settings for `eth0`. Keep a copy of them for resetting later.
2. Bring down `eth0` and reconfigure to use a static address instead of **DCHP**, using the information you just recorded.
3. Bring the interface back up, and configure the nameserver resolver with the information that you noted before. Verify your hostname and then **ping** it.
4. Make sure your configuration works after a reboot.

You will probably want to restore your configuration when you are done.

### ✓ Solution 35.1

1. 

```
$ ip addr show eth0
$ ip route
$ cp /etc/resolv.conf resolv.conf.keep
```

or

```
$ ifconfig eth0
$ route -n
$ cp /etc/resolv.conf resolv.conf.keep
```
2. 

```
$ sudo ip link set eth0 down
```

or

```
$ sudo ifconfig eth0 down
```



### On RedHat / CentOS

Make sure the following is in `/etc/sysconfig/network-scripts/ifcfg-eth0` on **Red Hat**-based systems:



in `/etc/sysconfig/network-scripts/ifcfg-eth0`

```
DEVICE=eth0
BOOTPROTO=static
ONBOOT=yes
IPADDR=noted from step 1
NETMASK=noted from step 1
GATEWAY=noted from step 1
```



### On openSUSE , SLES, OpenSUSE, and Debian-based systems

On **SUSE**-based systems edit the file in `/etc/sysconfig/network` in the same way, and on **Debian**-based systems edit `/etc/networking/interfaces` to include:



in `/etc/sysconfig/network` or `/etc/networking/interfaces`

```
iface eth0 inet static
address noted from step 1
netmask noted from step 1
gateway noted from step 1
```

3. `$ sudo ip link set eth0 up`

or

```
$ sudo ifconfig eth0 up
```

```
$ sudo cp resolv.conf.keep /etc/resolv.conf
```

```
$ cat /etc/sysconfig/network
```

```
$ cat /etc/hosts
```

```
$ ping yourhostname
```

4. `$ sudo reboot`

```
$ ping hostname
```