

Lab 39.1: Static Configuration of a Network Interface

Note: you may have to use a different network interface name than eth0. Of course you can do this exercise from a graphical interface but we will present a command line solution.

- 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 39.1

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

```
2. \$ sudo if config eth0 down
```

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

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

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:

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

3. $\$ sudo if config ethO up

```
$ sudo cp resolv.conf.keep /etc/resolv.conf
$ cat /etc/sysconfig/network
$ cat /etc/hosts
$ ping yourhostname
```

4. \$ sudo reboot

\$ ping hostname

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