

Exercise 39.1 Static Configuration of a Network Interface

Note: you may have to use a different network interface name than etho. 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.

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

\$ cat /etc/sysconfig/network

\$ cat /etc/hosts
\$ ping yourhostname

Solution 39.1

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1. $ ip addr show eth0
  $ ip route
  $ cp /etc/resolv.conf resolv.conf.keep
  $ ifconfig eno1
  $ route -n
  $ cp /etc/resolv.conf resolv.conf.keep
2. $ sudo ip link set eth0 down
  $ sudo ifconfig 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 ip link set eth0 up
  or
  $ sudo ifconfig eth0 up
```

