*25.5. LABS* 1



## **Exercise 25.1: System Tunables with sysctl**

- 1. Check if you can ping your own system.
- 2. Check the current value of net.ipv4.icmp\_echo\_ignore\_all, which is used to turn on and off whether your system will respond to ping. A value of 0 allows your system to respond to pings.
- 3. Set the value to 1 using the **sysctl** command line utility and then check if pings are responded to.
- 4. Set the value back to 0 and show the original behavior in restored.
- 5. Now change the value by modifying /etc/sysctl.conf and force the system to activate this setting file without a reboot.
- 6. Check that this worked properly.

You will probably want to reset your system to have its original behavior when you are done.

## Solution 25.1

You can use either localhost, 127.0.0.1 (loopback address) or your actual IP address for target of ping below.

- 1. \$ ping localhost
- 2. \$ sysctl net.ipv4.icmp\_echo\_ignore\_all

- 5. Add the following line to /etc/sysctl.conf:

## in /etc/sysctl.conf net.ipv4.icmp\_echo\_ignore\_all=1

and then do:

\$ sysctl -p

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Since the changes to /etc/sysctl.conf are persistent, you probably want to restore things to its previous state.

