25.5. SYSCTL 1



Exercise 25.1 System Tunables with sysctl

- 1. Check if you can ping your own system. (Note on RHEL 7 you must be root to run ping on most external network addresses.)
- 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.

\$ ping localhost

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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.

```
$ ping localhost
$ sysctl net.ipv4.icmp_echo_ignore_all
$ sudo sysctl net.ipv4.icmp_echo_ignore_all=1
    $ ping localhost
$ sudo sysctl net.ipv4.icmp_echo_ignore_all=0
    $ ping localhost
Add the following line to /etc/sysctl.conf:
    net.ipv4.icmp_echo_ignore_all=1
    and then do:
    $ sysctl -p
$ sysctl net.ipv4.icmp_echo_ignore_all
```

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

