ADMINISTRATION IN THE WORLD OF SYSTEMD

CONNECTING TO THE LAB EQUIPMENT

Your instructor will give instructions on how to connect to your lab equipment.

EXERCISE 1 – MANAGING SERVICES

Perform the following steps on your virtual machine:

1. Login as **root**, with the password "**redhat**", or if you prefer, login in as **student** with the password "**student**" and become **root** in a shell.
2. Install the **httpd** package.

```
[root@serverX ~]# yum -y install httpd
```

3. Using **systemctl** verify the current state of the **httpd** daemon.

```
[root@serverX ~]# systemctl status httpd
httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled)
   Active: inactive (dead)
```

4. Start the **httpd** daemon.

```
[root@serverX ~]# systemctl start httpd
```

5. Verify the status of the **httpd** daemon.

```
[root@serverX ~]# systemctl status httpd
httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled)
   Active: active (running) since Wed 2014-04-09 22:40:09 EDT; 41s ago
 Main PID: 20587 (httpd)
   Status: "Total requests: 0; Current requests/sec: 0; Current
traffic:   0 B/sec"
   CGroup: /system.slice/httpd.service
           ├─20587 /usr/sbin/httpd -DFOREGROUND
```

```
             ├─20588 /usr/sbin/httpd -DFOREGROUND
             ├─20589 /usr/sbin/httpd -DFOREGROUND
             ├─20590 /usr/sbin/httpd -DFOREGROUND
             ├─20591 /usr/sbin/httpd -DFOREGROUND
             └─20592 /usr/sbin/httpd -DFOREGROUND

Apr 09 22:40:09 server0.example.com systemd[1]: Starting The Apache
HTTP Ser....
Apr 09 22:40:09 server0.example.com systemd[1]: Started The Apache
HTTP Server.
Hint: Some lines were ellipsized, use -l to show in full.
```

6. Ensure the **httpd** daemon will start at boot.

```
[root@serverX ~]# systemctl enable httpd
```

You've decided to configure your machine to use iptables instead of firewalld.

7. Verify firewalld is running on the system.

```
[root@serverX ~]# systemctl status firewalld
...Output Truncated...
   Active: active (running) since Tue 2014-04-16 13:51:46 EDT; 1 weeks
1 days ago
```

8. Stop and disable **firewalld**.

```
[root@serverX ~]# systemctl stop firewalld
[root@serverX ~]# systemctl disable firewalld
```

9. Apply a mask to firewalld.

```
[root@serverX ~]# systemctl mask firewalld
```

10. Unmask iptables.

```
[root@serverX ~]# systemctl unmask iptables
```

11. Start and enable iptables, then verify it's state.

```
[root@serverX ~]# systemctl start iptables
[root@serverX ~]# systemctl enable iptables
[root@serverX ~]# systemctl status iptables
```


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EXERCISE 2 – TROUBLESHOOTING A BOOT ISSUE

Perform the following steps on your virtual machine

1. Log into the machine as **root** using a password of **redhat**.
2. Run **lab-breakme setup**.
3. Upon reboot, the machine will not boot up, but instead will prompt you for the root password for maintenance mode. Log in.
4. View the boot errors on your system.

```
[root@serverX ~]# journalctl -b -p err
```

5. Resolve the issue in the /etc/fstab file.

```
[root@serverX ~]# vi /etc/fstab
```