

7.5 Guided Exercise: Disabling Linux Services

Resources

Files	None
Machines	Ubuntu Server

In this exercise, you are required to disable the apache web server service.

On the Ubuntu Server run the command `netstat -tulpn` to confirm that the webserver is listening on port 80.

```
user@ubuntu:~$ netstat -tulpn
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
PID/Program name
tcp        0      0 127.0.0.53:53          0.0.0.0:*               LISTEN
-
tcp        0      0 0.0.0.0:22             0.0.0.0:*               LISTEN
-
tcp        0      0 127.0.0.1:631          0.0.0.0:*               LISTEN
-
tcp6       0      0 :::80                  :::*                     LISTEN
-
tcp6       0      0 :::22                  :::*                     LISTEN
-
```

Then run the command `systemctl status apache2`. Press the q button after the command shows the result.

```
user@ubuntu:~$ systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset:
  Drop-In: /lib/systemd/system/apache2.service.d
           └─apache2-systemd.conf
   Active: active (running) since Fri 2019-07-12 09:44:48 BST; 9min ago
     Process: 1170 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCE
   Main PID: 1626 (apache2)
       Tasks: 55 (limit: 1014)
      CGroup: /system.slice/apache2.service
              └─1626 /usr/sbin/apache2 -k start
                2130 /usr/sbin/apache2 -k start
                2131 /usr/sbin/apache2 -k start

Jul 12 09:44:37 ubuntu systemd[1]: Starting The Apache HTTP Server...
Jul 12 09:44:48 ubuntu apachectl[1170]: AH00558: apache2: Could not reliably det
Jul 12 09:44:48 ubuntu systemd[1]: Started The Apache HTTP Server.
```

Then run the command `systemctl stop apache2` to stop the service. Authentication is required so you need to enter the user password.

```
user@ubuntu:~$ systemctl stop apache2
```

Run the `systemctl status apache2` one more time to confirm that the `apache2` service has been stopped.

```
user@ubuntu:~$ systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset:
  Drop-In: /lib/systemd/system/apache2.service.d
           └─apache2-systemd.conf
   Active: inactive (dead) since Fri 2019-07-12 09:55:00 BST; 30s ago
     Process: 2589 ExecStop=/usr/sbin/apachectl stop (code=exited, status=0/SUCCESS)
     Process: 1170 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
    Main PID: 1626 (code=exited, status=0/SUCCESS)

Jul 12 09:44:37 ubuntu systemd[1]: Starting The Apache HTTP Server...
Jul 12 09:44:48 ubuntu apachectl[1170]: AH00558: apache2: Could not reliably det
Jul 12 09:44:48 ubuntu systemd[1]: Started The Apache HTTP Server.
Jul 12 09:54:50 ubuntu systemd[1]: Stopping The Apache HTTP Server...
Jul 12 09:55:00 ubuntu apachectl[2589]: AH00558: apache2: Could not reliably det
Jul 12 09:55:00 ubuntu systemd[1]: Stopped The Apache HTTP Server.
```

Run the command `sudo systemctl disable apache2` to disable the webserver. The command requires the user password and enter `Pa$ $w0rd`. That command will prevent the webserver from starting during boot time.

```
user@ubuntu:~$ sudo systemctl disable apache2
Synchronizing state of apache2.service with SysV service script with /lib/system
d/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install disable apache2
```

Run the command `netstat -tulpn` to confirm that port 80 is not listening for connections.

```
user@ubuntu:~$ netstat -tulpn
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
PID/Program name
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN
-
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN
-
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN
-
tcp6       0      0 :::22                  :::*                     LISTEN
-
tcp6       0      0 :::22                  :::*                     LISTEN
```