## Renee Ammerman

ITON1748

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## Lab 5

1. Yum-I used the commands "yum search httpd" and "yum list |grep httpd". The search command shows the package name and description for the Apache Web Server, the grep command shows the available installs for the package.

```
user1@server11:/
  **Table Constitution of the Apache HTTPD : as Keycloak client : as Keycloak client : as Keycloak client httpd-devel.x86_64 : Development interfaces for the Apache HTTP server httpd-tools.x86_64 : Tools for use with the Apache HTTP Server httpd-tools.x86_64 : Tools for use with the Apache HTTP server httpd-tools.x86_64 : Lightweight library for embedding a webserver in : applications libmicrohttpd.x86_64 : Lightweight library for embedding a webserver in : applications httpd-filesystem.noarch : The basic directory layout for the Apache HTTP server ** Summary Matched: httpd ** Server ** Summary Matched: httpd ** Server *
      [user1@server11 /]$
                                                                                                                                                      user1@server11:/
       [userl@serverl1 /]$ yum list |grep httpd
Warning: failed loading '/etc/yum.repos.d/dvd.repo', skipping.
centos-logos-httpd.noarch 80.5-2.el8
                                                                                                     dvd-Base0S
       httpd.x86_64
2+15b0afa8
                                                                                                                                                                                                                                      2.4.37-21.module_el8.2.0+38
                                                                                                  dvd-AppStream
        httpd-devel.x86_64
2+15b0afa8
                                                                                                                                                                                                                                      2.4.37-21.module el8.2.0+38
                                                                                                   dvd-AppStream
                                                                                                                                                                                                                                     2.4.37-21.module el8.2.0+38
       2+15b0afa8
httpd-manual.noarch
                                                                                                   dvd-AppStream
       2+15b0afa8
                                                                                                   dvd-AppStream
       httpd-tools.X86_64
2+15b0afa8 dvd-AppStream
keycloak-<mark>httpd</mark>-client-install.noarch
dvd-AppStream
                                                                                                                                                                                                                                     1.0-2.el8
                                                                                                                                                                                                                                      1:0.9.59-2.el8
                                                                                                   dvd-Base0S
                                                                                                 dvd-Base0S
                                                                                                  d-client-install.noarch
dvd-AppStream
       python3-keycloak-http
                                                                                                                                                                                                                                      1.0-2.el8
```

2. Installing package-I typed "yum install httpd" to install the Apache server. To run the package I typed "systemctl start httpd" and to ensure it was running I typed "systemctl status httpd".

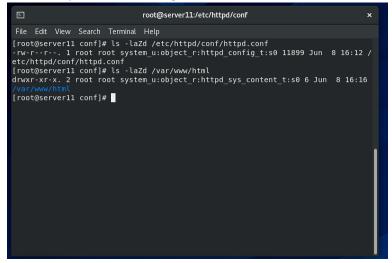
```
File Edit View Search Terminal Help

mod_http2-1.11.3-3.module_el8.2.0+307+4d18d695.x86_64

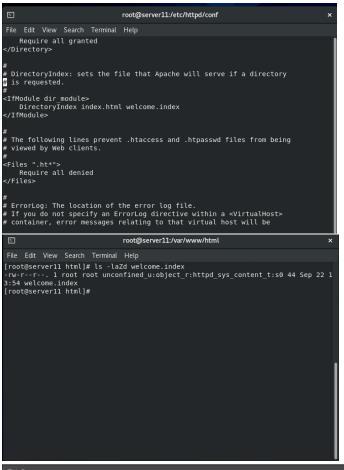
Complete!
[root@server11 ~]# systemctl start httpd
[root@server11 ~]# systemctl starts httpd
| httpd.service - The Apache HTTP Server
| Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor prescative (running) since Tue 2020-09-22 10:32:15 EDT; 10s ago
| Docs: man:httpd.service(8)
| Main PID: 289514 (httpd)
| Status: "Running, listening on: port 80"
| Tasks: 213 (limit: 4863)
| Memory: 22.1M
| CGroup: /system.slice/httpd.service
| ~289514 /usr/sbin/httpd -DFOREGROUND
| ~289515 /usr/sbin/httpd -DFOREGROUND
| ~289516 /usr/sbin/httpd -DFOREGROUND
| ~289518 /usr/sbin/httpd -DFOREGROUND
```

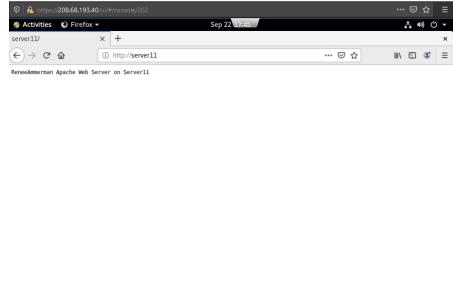
3. Using Yum- I used the command "yum groups list hidden", I then typed "yum info 'basic web server'. After ensuring Apache was a part of this package, I typed "yum groupinstall 'basic web server'.

4. Permissions- I used the command "Is -laZd" to view the permissions and the SELinux associated with the Apache main config file and the document root.

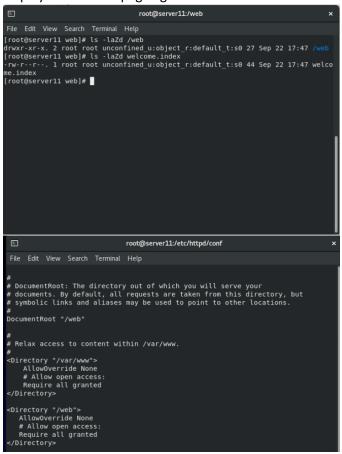


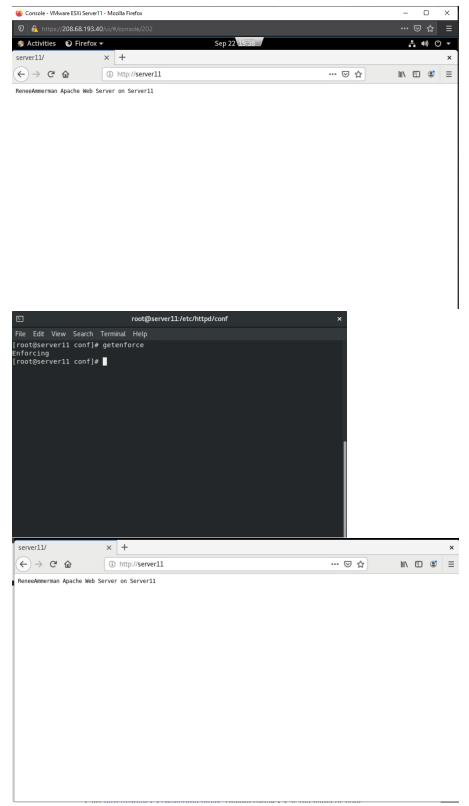
5. Configuration- By using "vi httpd.conf" I was able to edit the configuration file. I added welcome.index to the Directory Index field. After this is typed the command "Is -laZd wlcome.index" to view the permissions/SELinux. The file was changed to from "system" to "unconfined".





6. Configuration- I created the "/web" directory using "mkdir /web", I copied the "welcome.index" file to the /web directory using "cp /var/www/html/welcome.index /web". The SELinux is different than step 4 because it has changed the type to default. The /web directory has the same permissions as the /var/www/html directory. I went back to the configuration file and added /web to the Document root, and added a directory block for /web. I went back to the web browser and it did display the home page. I used "getenforce" to get the SELinux status. I displayed the homepage again in the web browser.





7. Client- I typed "curl http://server11/welcome.index", It returned the contents of the welcome.index file.

