

Assignment 8: Web Server

Jesse Russell

Main steps:

```
Loading mirror speeds from cached hostfile
* base: mirrors.umflint.edu
* extras: mirrors.umflint.edu
* updates: mirrors.seas.harvard.edu
base | 3.6 kB 00:00
extras | 2.9 kB 00:00
updates | 2.9 kB 00:00
updates/7/x86_64/primary_db | 2.8 MB 00:03
Package httpd-2.4.6-90.el7.centos.x86_64 already installed and latest version
Nothing to do
[root@localhost ~]#
```

I installed the httpd package using yum install httpd.

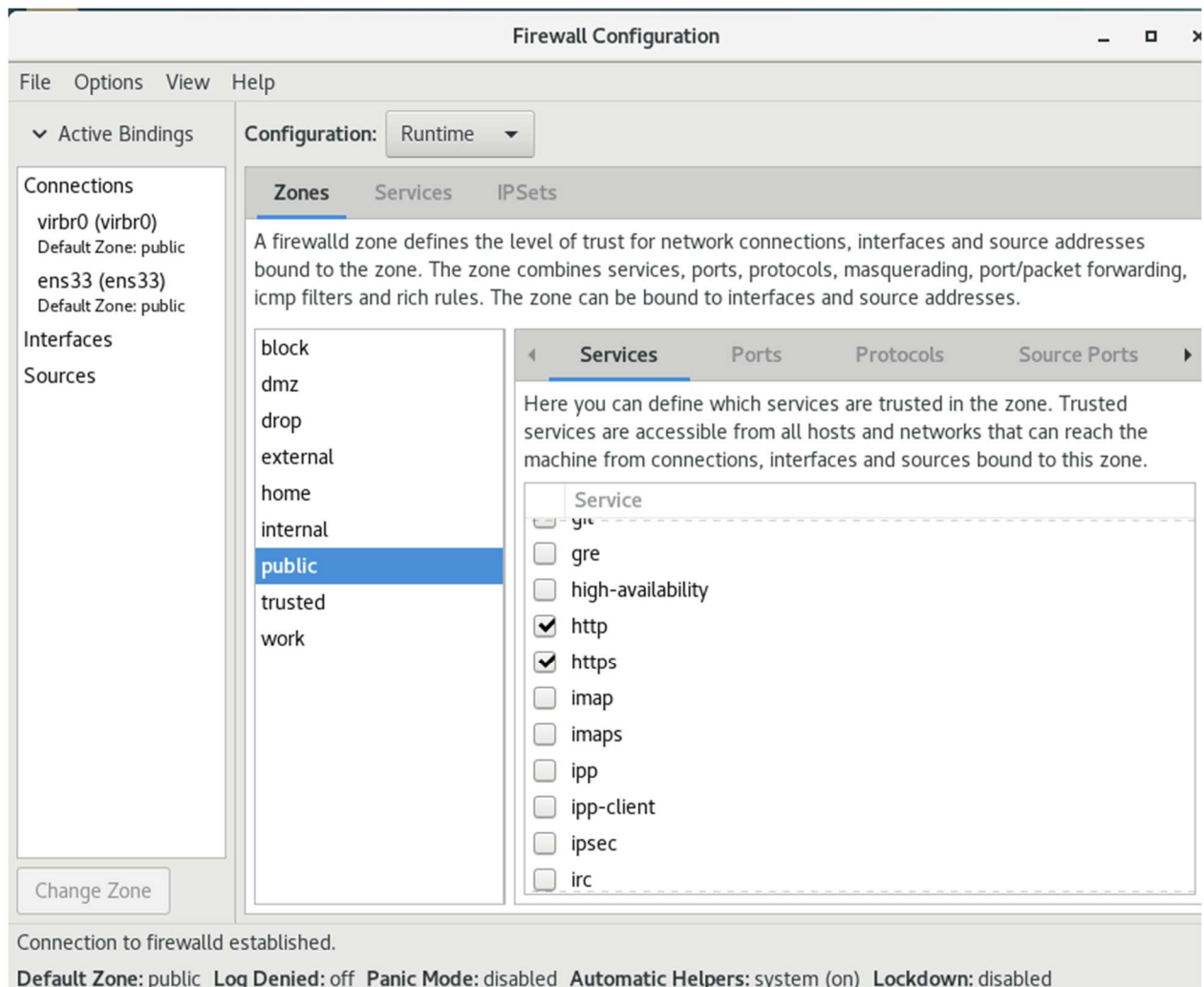
```
[root@localhost html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@localhost html]# chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@localhost html]# service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Mon 2019-11-04 19:16:38 EST; 58s ago
     Docs: man:httpd(8)
           man:apachectl(8)
   Main PID: 15366 (httpd)
   Status: "Total requests: 0; Current requests/sec: 0; Current traffic: 0 B/sec"
   CGroup: /system.slice/httpd.service
           └─15366 /usr/sbin/httpd -DFOREGROUND
             └─15370 /usr/sbin/httpd -DFOREGROUND
               └─15371 /usr/sbin/httpd -DFOREGROUND
                 └─15372 /usr/sbin/httpd -DFOREGROUND
                   └─15373 /usr/sbin/httpd -DFOREGROUND
                     └─15374 /usr/sbin/httpd -DFOREGROUND

Nov 04 19:16:38 localhost.localdomain systemd[1]: Starting The Apache HTTP Server...
Nov 04 19:16:38 localhost.localdomain httpd[15366]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using localhost.localdomain. Set the 'ServerName' dire... this message
Nov 04 19:16:38 localhost.localdomain systemd[1]: Started The Apache HTTP Server.
Hint: Some lines were ellipsized, use -l to show in full.
[root@localhost html]#
```

I started the httpd service, made sure it's turned on at each boot, and checked the status of the service.

```
# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#   enforcing - SELinux security policy is enforced.
#   permissive - SELinux prints warnings instead of enforcing.
#   disabled - No SELinux policy is loaded.
SELINUX=permissive
# SELINUXTYPE= can take one of three values:
#   targeted - Targeted processes are protected,
#   minimum - Modification of targeted policy. Only selected processes are protected.
#   mls - Multi Level Security protection.
SELINUXTYPE=targeted
```

I set the SELINUX value to permissive.



The firewall was set to include http and https.



I tested the web server with <http://localhost>

Exercise 1b: Step 1

```
root@localhost:~  
File Edit View Search Terminal Help  
GNU nano 2.3.1 File: /etc/httpd/conf.d/example.org.conf  
  
<VirtualHost *:80>  
    ServerAdmin john@example.org  
    ServerName john.example.org:80  
    DocumentRoot "/var/www/html/example.org/"  
    DirectoryIndex index.html  
</VirtualHost>  
  
[ Read 6 lines ]  
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos  
^W Exit ^M Justify ^H Where To ^V Next Page ^U Undo Text ^T To Spell
```

Here are the contents of the /etc/httpd/conf.d/example.org.conf configuration file.

Step 2

```
[root@localhost conf.d]# mkdir /var/www/html/example.org  
[root@localhost conf.d]# cd /var/www/html/example.org  
[root@localhost example.org]# touch index.html  
[root@localhost example.org]# nano index.html  
[root@localhost example.org]# cat index.html  
Welcome to the house of john.  
[root@localhost example.org]#
```

I created the directory /var/www/html/example.org. Then I created an index.html file in that directory and wrote "Welcome to the house of john." In it.

Step 3

```
GNU nano 2.3.1 File: /etc/hosts  
  
27.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4  
::1 localhost localhost.localdomain localhost6 localhost6.localdomain6 john.example.org
```

I added the john.example.org to the hosts file



The website is working as expected.