

**Week 4 Lab
Assignment**

CIT 217

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BCTC
Spring 2020

February 6, 2020

Chapter 5 Questions

0.0.1

Run the `firewall-cmd --list-all` with the necessary privilege escalation. Output Provided on Pg. 2 See Fig 1a

0.0.2

Switch user to root. Run the command `whoami`. Output Provided on Pg. 2 See Fig 1b

0.0.3

Add your BTC credential as a user. Change the user's password. Provide the output of the encrypted file including your user credential. Output Provided on Pg. 2 See Fig 1c

0.0.4

Change the password policy for your user credential to require a new password every 180 days. Output Provided on Pg. 2 See Fig 1d

0.0.5

Add a group named students with the GID of 50000. Add your user to the students group. Provide the output of the group file including the group and your user's membership. Output Provided on Pg. 2 See Fig 1e

```

[student@server1 ~]$ sudo firewall-cmd --list-all
[sudo] password for student:
public (default, active)
  interfaces: eth0
  sources:
  services: dhcpv6-client ssh
  ports:
  masquerade: no
  forward-ports:
  icmp-blocks:
  rich rules:

[student@server1 ~]$

```

(a) Output after running
firewall-cmd --list-all

```

[student@server1 ~]$ su -
Password:
Last login: Mon Dec 21 10:01:50 EST 2015 on pts/0
[root@server1 ~]# whoami
root
[root@server1 ~]# █

```

(b) Output after running whoami as root

```

[root@server1 ~]# useradd cdavis0532
[root@server1 ~]# passwd cdavis0532
Changing password for user cdavis0532.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictio
ry word
Retype new password:
passwd: all authentication tokens updated successfully.
[root@server1 ~]# tail -5 /etc/passwd
pulse:x:171:171:PulseAudio System Daemon:/var/run/pulse:/sbin/nologin
gdm:x:42:42:/var/lib/gdm:/sbin/nologin
gnome-initial-setup:x:993:991:/run/gnome-initial-setup:/sbin/nologin
cpdump:x:72:72::/sbin/nologin
cdavis0532:x:1001:1001:/home/cdavis0532:/bin/bash
[root@server1 ~]# █

```

(c) encrypted password for my user

```

[root@server1 ~]# date -d "+180"
date: invalid date '+180'
[root@server1 ~]# date -d "+180 days"
Tue Aug  4 09:04:04 EDT 2020
[root@server1 ~]# chage -E 2020-08-04 cdavis0532
[root@server1 ~]# █

```

(d) 180 day password policy

```

[root@server1 ~]# chage -E 2020-08-04 cdavis0532
[root@server1 ~]# groupadd -g 50000 students
[root@server1 ~]# usermod -G students cdavis0532
[root@server1 ~]# tail -5 /etc/group
stapdev:x:158:
cpdump:x:72:
locate:x:21:
cdavis0532:x:1001:
students:x:50000:cdavis0532
[root@server1 ~]# █

```

(e) Membership of the students group.
with a 50000 GID

Figure 1: The Screenshots from Chapter 5

Chapter 6 Questions

0.0.6

Switch user to root. Create a file named for your last name. See Fig 2a on Pg. 3. Change the permissions of the file to forbid other users from accessing it. Provide the detailed list output of the directory. Output Provided on Pg. 3 See Fig 2b

0.0.7

Add your BCTC credential as a user. Switch user to your credential. Create a file named test1. Change your umask to 027. Create a file named test2. Provide the detailed list output of the directory. Output Provided on Pg. 3 See Fig 2c

```
[root@server1 ~]# touch davis
[root@server1 ~]# ls
bash: ls: command not found...
[root@server1 ~]# ls
anaconda-ks.cfg davis
[root@server1 ~]# ls -al
total 48
drwxr-xr-x. 6 root root 4096 Feb  6 08:07 .
drwxr-xr-x. 17 root root 4096 Feb  6 07:41 ..
-rw-r--r--. 1 root root 8619 May  6 2014 anaconda-ks.cfg
-rw-r--r--. 1 root root 212 Dec 21 2015 .bash_history
-rw-r--r--. 1 root root 18 Dec 28 2013 .bash_logout
-rw-r--r--. 1 root root 176 Dec 28 2013 .bash_profile
-rw-r--r--. 1 root root 176 Dec 28 2013 .bashrc
drwxr-xr-x. 4 root root 29 Aug 24 2015 .cache
drwxr-xr-x. 4 root root 79 Aug 24 2015 .config
-rw-r--r--. 1 root root 100 Dec 28 2013 .cshrc
-rw-r--r--. 1 root root 0 Feb  6 08:07 davis
drwx-----. 3 root root 24 Aug 24 2015 .dbus
drwx-----. 2 root root 28 Jan  6 2015 .ssh
-rw-r--r--. 1 root root 129 Dec 28 2013 .tcshrc
-rw-r--r--. 1 root root 64 Feb  6 07:48 .xauth4Bgj9v
```

(a) Detailed list view after creating the file davis

```
[root@server1 ~]# chmod 700 davis
[root@server1 ~]# ls -al
total 48
drwxr-xr-x. 6 root root 4096 Feb  6 08:07 .
drwxr-xr-x. 17 root root 4096 Feb  6 07:41 ..
-rw-r--r--. 1 root root 8619 May  6 2014 anaconda-ks.cfg
-rw-r--r--. 1 root root 212 Dec 21 2015 .bash_history
-rw-r--r--. 1 root root 18 Dec 28 2013 .bash_logout
-rw-r--r--. 1 root root 176 Dec 28 2013 .bash_profile
-rw-r--r--. 1 root root 176 Dec 28 2013 .bashrc
drwxr-xr-x. 4 root root 29 Aug 24 2015 .cache
drwxr-xr-x. 4 root root 79 Aug 24 2015 .config
-rw-r--r--. 1 root root 100 Dec 28 2013 .cshrc
-rwx-----. 1 root root 0 Feb  6 08:07 davis
drwx-----. 3 root root 24 Aug 24 2015 .dbus
drwx-----. 2 root root 28 Jan  6 2015 .ssh
-rw-r--r--. 1 root root 129 Dec 28 2013 .tcshrc
-rw-r--r--. 1 root root 64 Feb  6 07:48 .xauth4Bgj9v
[root@server1 ~]#
```

(b) Detailed List after changing file permissions

```
[root@server1 ~]# su - cdavis0532
cdavis0532@server1 ~]$ touch test1
cdavis0532@server1 ~]$ ls
test1
cdavis0532@server1 ~]$ umask 027
cdavis0532@server1 ~]$ touch test2
cdavis0532@server1 ~]$ ls -ld
-rwx-----. 5 cdavis0532 cdavis0532 4096 Feb  6 08:13 .
cdavis0532@server1 ~]$ ls -al
total 16
-rwx-----. 5 cdavis0532 cdavis0532 4096 Feb  6 08:13 .
drwxr-xr-x. 4 root root 37 Feb  6 07:59 ..
-rw-r--r--. 1 cdavis0532 cdavis0532 18 Jan 29 2014 .bash_logout
-rw-r--r--. 1 cdavis0532 cdavis0532 193 Jan 29 2014 .bash_profile
-rw-r--r--. 1 cdavis0532 cdavis0532 231 Jan 29 2014 .bashrc
drwxr-xr-x. 3 cdavis0532 cdavis0532 17 Feb  6 08:10 .cache
drwxr-xr-x. 3 cdavis0532 cdavis0532 67 Feb  6 08:10 .config
drwxr-xr-x. 4 cdavis0532 cdavis0532 37 Jan  6 2015 .mozilla
-rw-rw-r--. 1 cdavis0532 cdavis0532 0 Feb  6 08:10 test1
-rw-r-----. 1 cdavis0532 cdavis0532 0 Feb  6 08:13 test2
cdavis0532@server1 ~]$
```

(c) test1 and test2 files with their umasks updated

Figure 2: The Screenshots from Chapter 6