

CYSE 270: Linux System for Cybersecurity

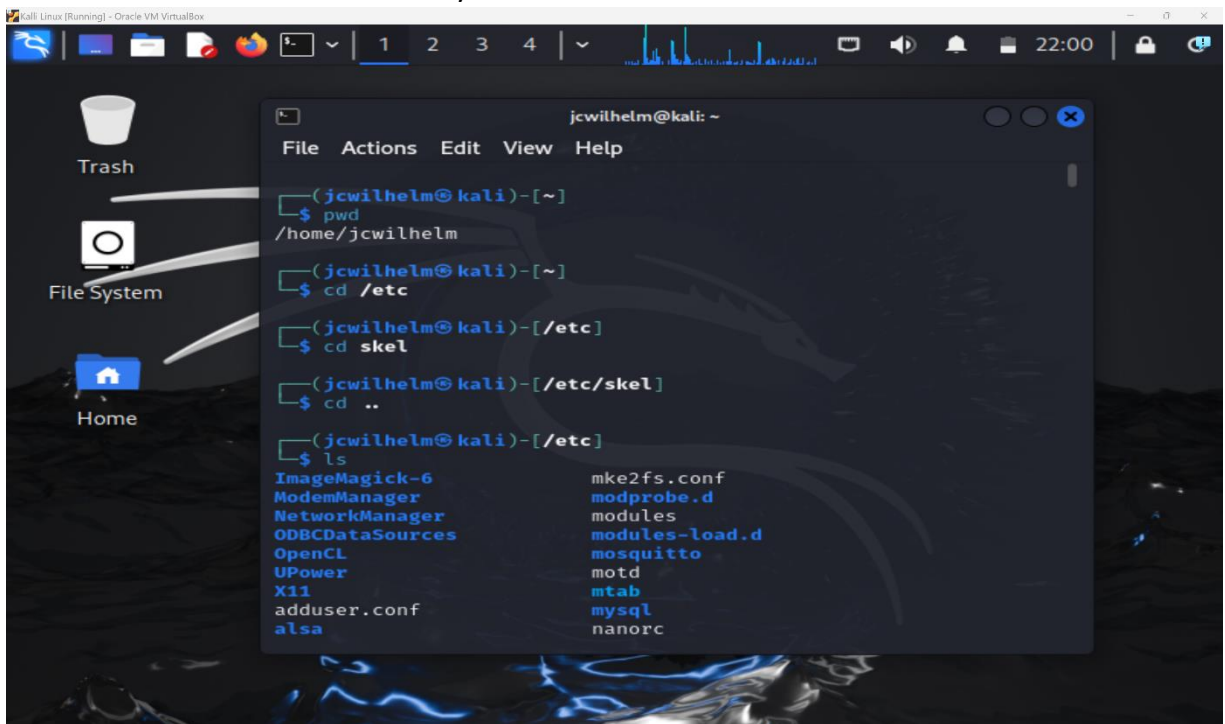
Assignment 2

Total: 100 Points Instructions:

1. Execute the correct commands for all the steps listed below.
2. Take screenshots after completing each step.
3. Submit your screenshots in a single Word or PDF file.
4. Clearly label each screenshot with the corresponding step number.

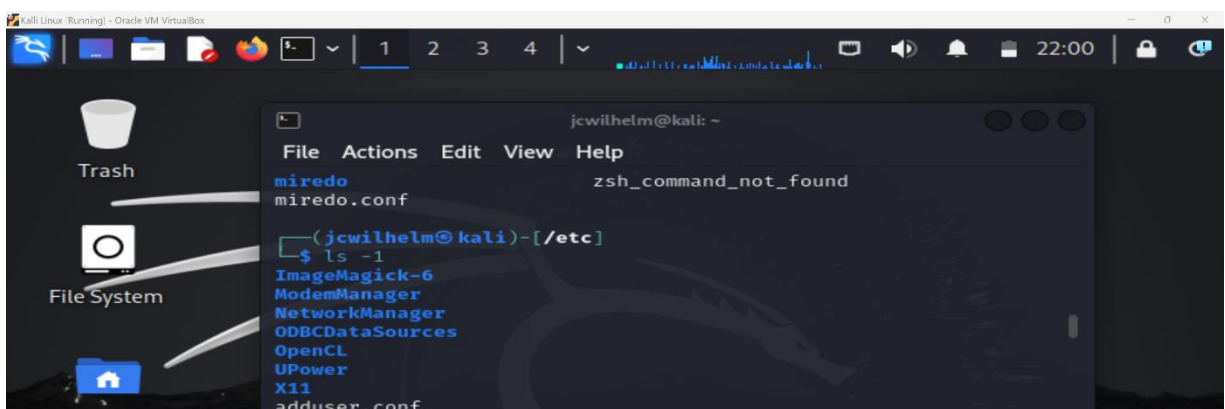
Steps:

1. Open a terminal window.
2. Display your current working directory.
3. Using an absolute pathname, switch to the /etc directory.
4. Using a relative pathname, move to the /etc/skel directory.
5. Using a relative pathname, move up one directory.
6. List the files in the current directory.



```
jcwilhelm@kali: ~  
File Actions Edit View Help  
(jcwilhelm@kali)-[~]  
$ pwd  
/home/jcwilhelm  
(jcwilhelm@kali)-[~]  
$ cd /etc  
(jcwilhelm@kali)-[/etc]  
$ cd skel  
(jcwilhelm@kali)-[/etc/skel]  
$ cd ..  
(jcwilhelm@kali)-[/etc]  
$ ls  
ImageMagick-6      mke2fs.conf  
ModemManager       modprobe.d  
NetworkManager     modules  
ODBCDataSources    modules-load.d  
OpenCL              mosquitto  
UPower              motd  
X11                  mtab  
adduser.conf        mysql  
alsa                 nanorc
```

7. Perform a "long display" listing of the files in the current directory.



```
jcwilhelm@kali: ~  
File Actions Edit View Help  
miredo  
miredo.conf  
zsh_command_not_found  
(jcwilhelm@kali)-[/etc]  
$ ls -l  
ImageMagick-6  
ModemManager  
NetworkManager  
ODBCDataSources  
OpenCL  
UPower  
X11  
adduser.conf
```

8. List all the files in the current directory that begin with the letter **s**.
9. Run the command that will determine the type of contents in the **/etc/group** file.

```

(jcwilhelm@kali)-[/etc]
$ ls -d s*
samba          skel            subuid
sane.d         smartd.conf     subuid-
scalpel        smartmontools   subversion
screenrc       smi.conf        sudo.conf
sddm.conf.d    snmp            sudo_logsrvd.conf
searchsploit_rc speech-dispatcher sudoers
security       sqlmap          sudoers.d
selinux        ssh             supercat
sensors.d      ssl             sv
sensors3.conf sslsplit        sysctl.conf
services       strongswan.conf sysctl.d
sgml           strongswan.d    sysstat
shadow         stunnel         systemd
shadow-        subgid
shells         subgid-
  
```

```

(jcwilhelm@kali)-[/etc]
$ file /etc/group
/etc/group: ASCII text
  
```

10. Display only the **last five lines** of the **/etc/group** file.
11. Execute the command to return to **your home directory**.
12. Make a directory named **data** in the current directory.
13. Copy the **/etc/passwd** file into the **data** directory.
14. Copy the **/etc/ppp** directory into the current directory (and ignore any “Permission denied” error messages).

```

jcwilhelm@kali: ~
File Actions Edit View Help

(jcwilhelm@kali)-[/etc]
$ cat /etc/group | tail -5
nm-openconnect:x:134:
kali-trusted:x:135:
jcwilhelm:x:1000:
vboxsf:x:136:jcwilhelm
kaboxer:x:137:jcwilhelm

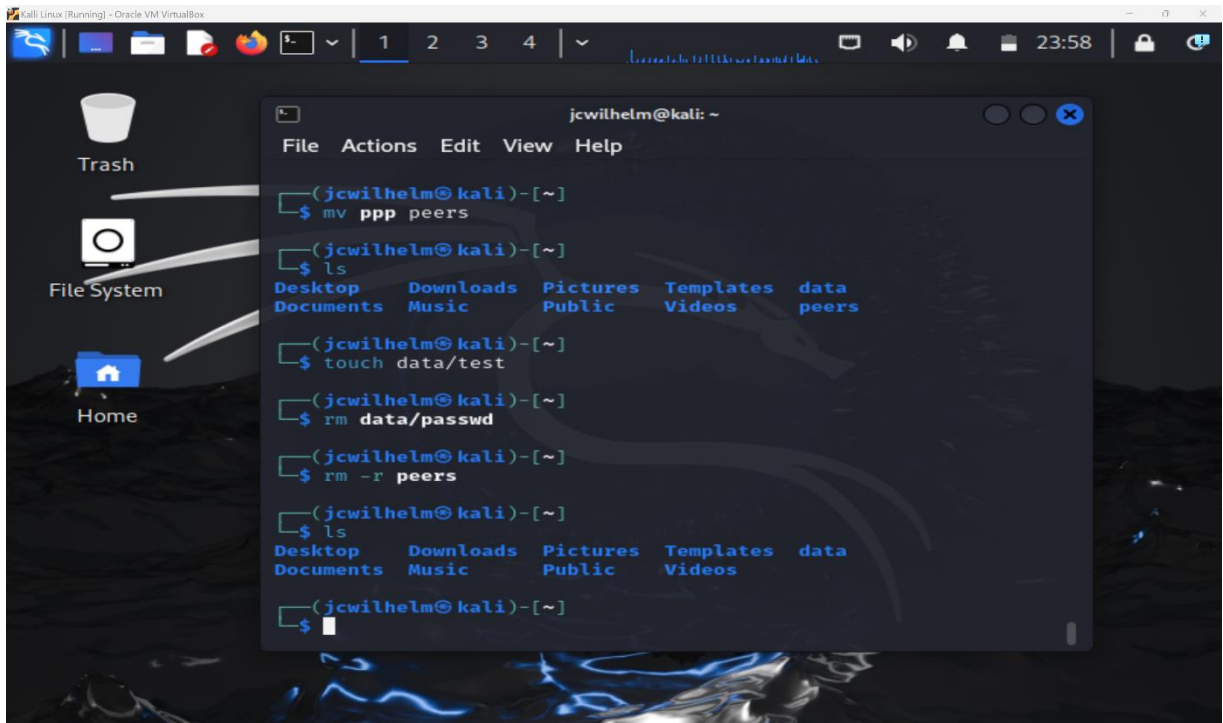
(jcwilhelm@kali)-[/etc]
$ cd ~

(jcwilhelm@kali)-[~]
$ mkdir data

(jcwilhelm@kali)-[~]
$ cp /etc/passwd data/

(jcwilhelm@kali)-[~]
$ cp -R /etc/ppp ~/
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied
  
```

15. Rename the **ppp** directory that is located in the current directory to **peers**.
16. Execute the command (ls) to verify the change in the name of the directory.
17. Create a new empty file named **test** in the **data** directory.
18. Delete the **data/passwd** file.
19. Delete the **peers** directory.
20. Re-execute the ls command.



The screenshot shows a Kali Linux terminal window titled "jcwilhelm@kali: ~". The terminal displays the following commands and their outputs:

```
(jcwilhelm@kali)-[~]  
$ mv ppp peers  
  
(jcwilhelm@kali)-[~]  
$ ls  
Desktop  Downloads  Pictures  Templates  data  
Documents Music      Public    Videos    peers  
  
(jcwilhelm@kali)-[~]  
$ touch data/test  
  
(jcwilhelm@kali)-[~]  
$ rm data/passwd  
  
(jcwilhelm@kali)-[~]  
$ rm -r peers  
  
(jcwilhelm@kali)-[~]  
$ ls  
Desktop  Downloads  Pictures  Templates  data  
Documents Music      Public    Videos  
  
(jcwilhelm@kali)-[~]  
$
```

The terminal window is overlaid on a desktop environment with icons for Trash, File System, and Home. The system clock in the top right corner shows 23:58.