

CYSE 270: Linux System for Cybersecurity

Assignment 2 Prescott Kowalski

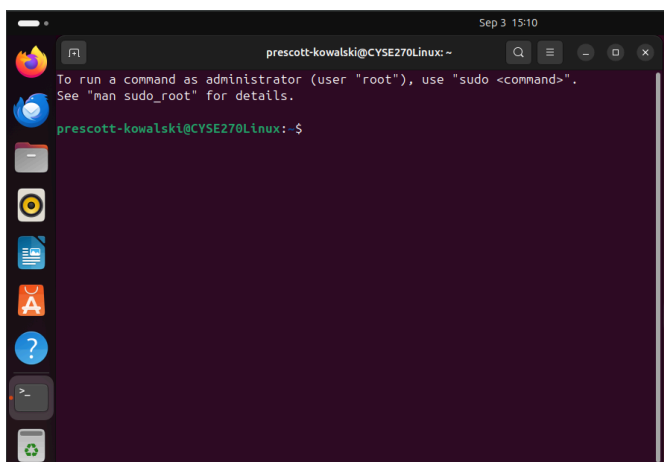
Total: 100 Points

Instructions:

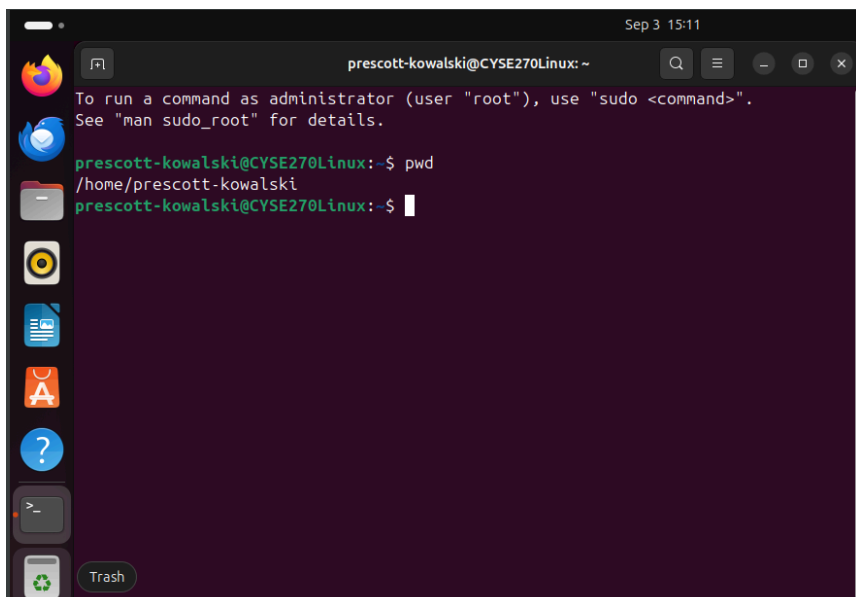
1. Execute the correct commands for all the steps listed below.
2. Take screenshots after completing each step.
3. Submit your screenshots in a single Word or PDF file.
4. Clearly label each screenshot with the corresponding step number.

Steps:

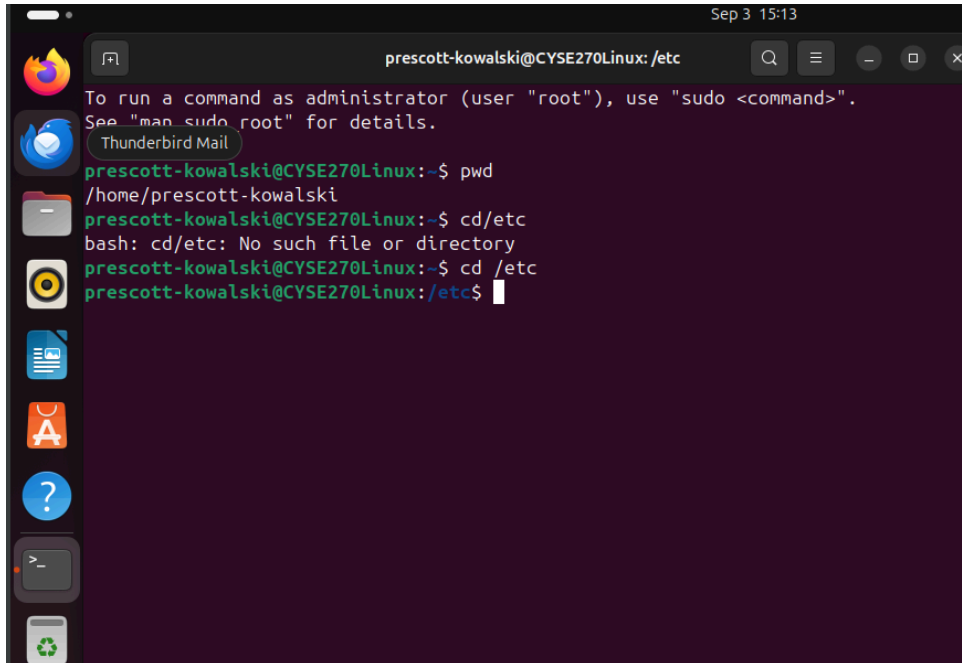
1. Open a terminal window.



2. Display your current working directory.



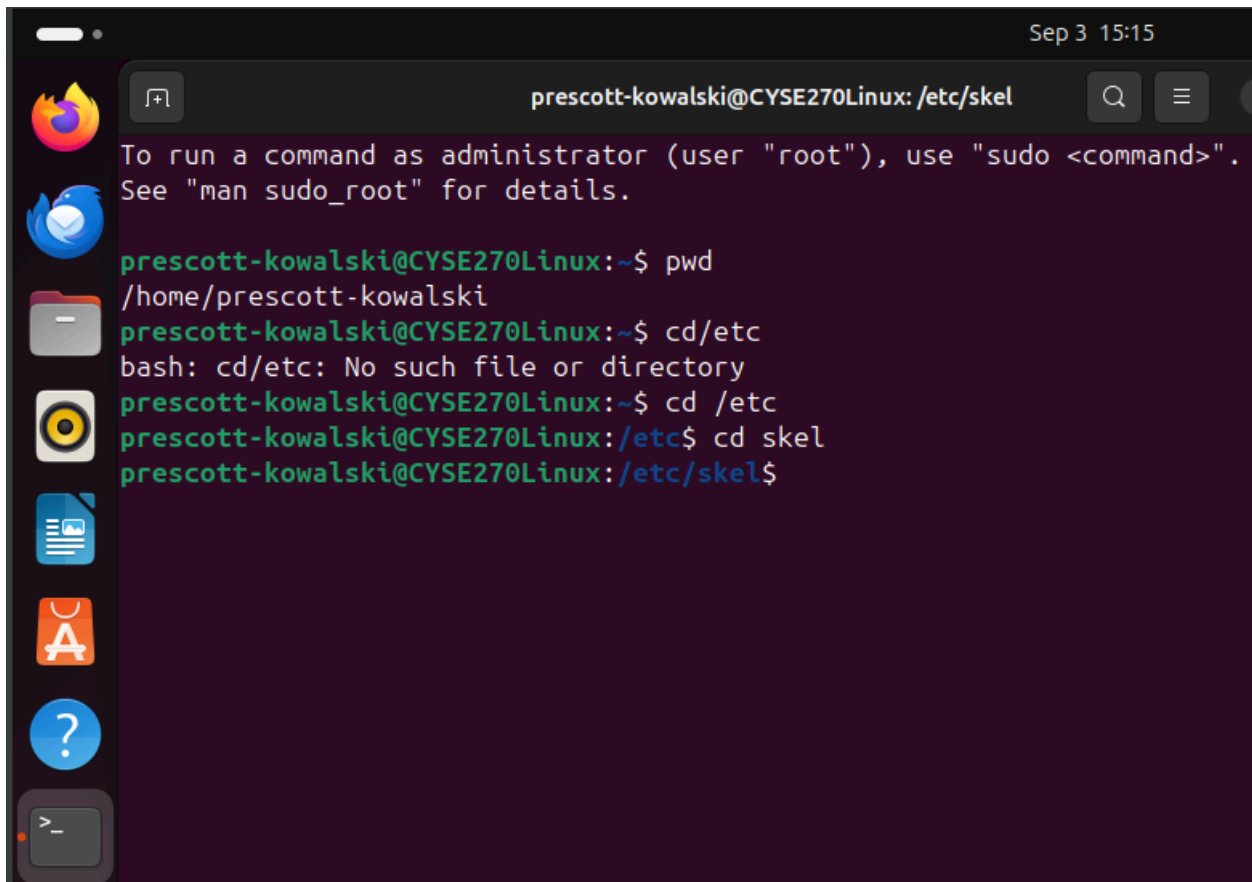
3. Using an absolute pathname, switch to the /etc directory.



A terminal window titled "prescott-kowalski@CYSE270Linux: /etc" with a search bar and window controls. The terminal shows the user navigating from their home directory to /etc. The left sidebar contains icons for Firefox, Thunderbird Mail, Files, GNOME Software, a question mark, and a terminal icon.

```
prescott-kowalski@CYSE270Linux:~$ pwd
/home/prescott-kowalski
prescott-kowalski@CYSE270Linux:~$ cd/etc
bash: cd/etc: No such file or directory
prescott-kowalski@CYSE270Linux:~$ cd /etc
prescott-kowalski@CYSE270Linux:/etc$
```

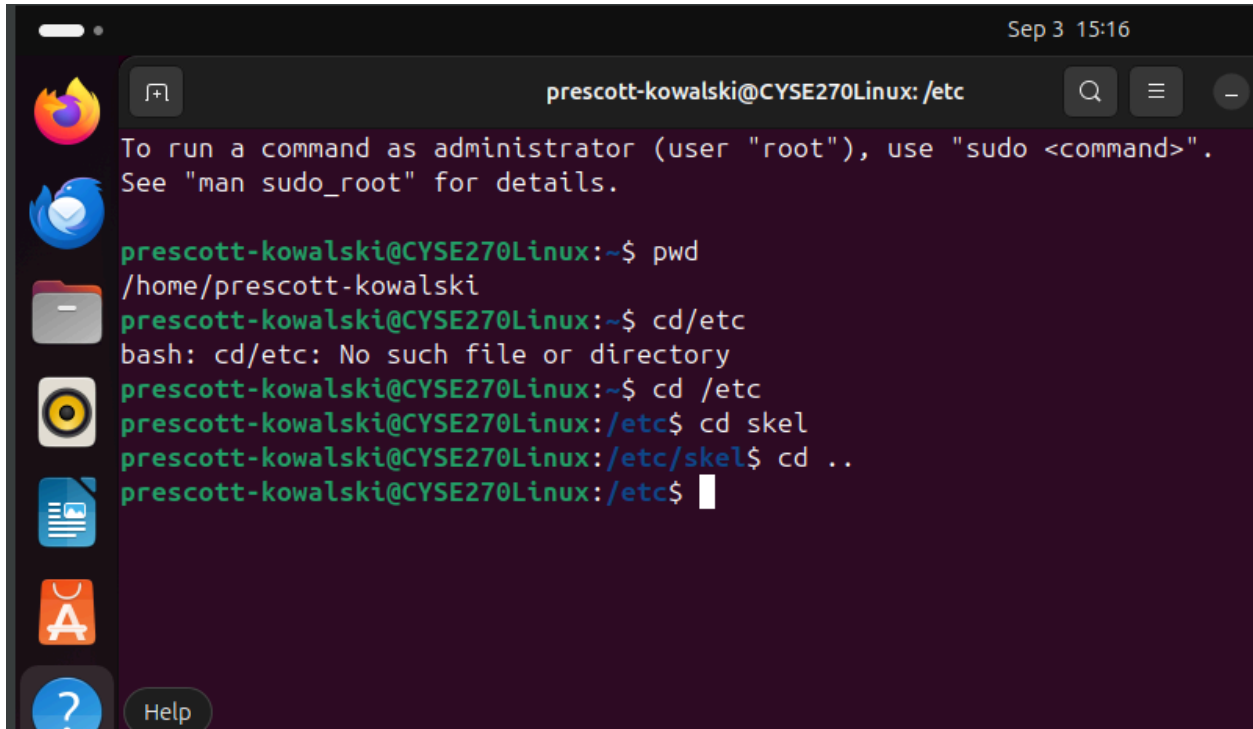
4. Using a relative pathname, move to the /etc/skel directory.



A terminal window titled "prescott-kowalski@CYSE270Linux: /etc/skel" with a search bar and window controls. The terminal shows the user navigating from their home directory to /etc/skel. The left sidebar contains icons for Firefox, Thunderbird Mail, Files, GNOME Software, a question mark, and a terminal icon.

```
prescott-kowalski@CYSE270Linux:~$ pwd
/home/prescott-kowalski
prescott-kowalski@CYSE270Linux:~$ cd/etc
bash: cd/etc: No such file or directory
prescott-kowalski@CYSE270Linux:~$ cd /etc
prescott-kowalski@CYSE270Linux:/etc$ cd skel
prescott-kowalski@CYSE270Linux:/etc/skel$
```

5. Using a relative pathname, move up one directory.



```
prescott-kowalski@CYSE270Linux: /etc
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

prescott-kowalski@CYSE270Linux:~$ pwd
/home/prescott-kowalski
prescott-kowalski@CYSE270Linux:~$ cd/etc
bash: cd/etc: No such file or directory
prescott-kowalski@CYSE270Linux:~$ cd /etc
prescott-kowalski@CYSE270Linux:/etc$ cd skel
prescott-kowalski@CYSE270Linux:/etc/skel$ cd ..
prescott-kowalski@CYSE270Linux:/etc$
```

6. List the files in the current directory.

Sep 3 15:18

prescott-kowalski@CYSE270Linux: /etc

```
prescott-kowalski@CYSE270Linux:/etc$ ls
adduser.conf      host.conf         profile
alsa              hostname         profile.d
alternatives      hosts            protocols
anacrontab        hosts.allow      pulse
cron.conf         hosts.deny       python3
apm               hp               python3.12
apparmor          ifplugd          rc0.d
apparmor.d        init             rc1.d
appport           init.d           rc2.d
apt               initramfs-tools  rc3.d
avahi             inputrc          rc4.d
bash.bashrc       insserv.conf.d   rc5.d
bash_completion  ipp-usb          rc6.d
bindresvport.blacklist  iproute2        rcS.d
binfmt.d          issue            resolv.conf
bluetooth         issue.net        rmt
brlapi.key        kernel           rpc
brltty            kerneloops.conf  rsyslog.conf
brltty.conf       krb5.conf.d      rsyslog.d
ca-certificates   ldap             rygel.conf
ca-certificates.conf  ld.so.cache     sane.d
chatscripts       ld.so.conf       security
cloud             ld.so.conf.d     selinux
colord            legal            sensors3.conf
console-setup     libao.conf       sensors.d
cracklib          libaudit.conf    services
credstore         libblockdev      sgml
credstore.encrypted  libibverbs.d    shadow
cron.d            libnl-3          shadow-
cron.daily        libpaper.d       shells
cron.hourly       libreoffice      skel
cron.monthly      locale.alias     snmp
```

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

```
Sep 3 15:19
prescott-kowalski@CYSE270Linux: /etc

gtk-3.0      polkit-1      zsh_command_not_found
hdparm.conf  ppp

prescott-kowalski@CYSE270Linux:/etc$ ls -l
total 1144
-rw-r--r-- 1 root      root      3444 Jul  5  2023 adduser.conf
drwxr-xr-x 3 root      root      4096 Aug  5 12:50 alsa
drwxr-xr-x 2 root      root      4096 Aug 27 15:36 alternatives
-rw-r--r-- 1 root      root        335 Apr  8  2024 anacrontab
-rw-r--r-- 1 root      root        433 Apr  8  2024 apg.conf
drwxr-xr-x 5 root      root      4096 Aug  5 12:50 apm
drwxr-xr-x 2 root      root      4096 Aug  5 12:50 apparmor
drwxr-xr-x 9 root      root      4096 Aug  5 13:30 apparmor.d
drwxr-xr-x 3 root      root      4096 Aug  5 12:51 appport
drwxr-xr-x 9 root      root      4096 Aug 27 15:31 apt
drwxr-xr-x 3 root      root      4096 Aug  5 12:51 avahi
-rw-r--r-- 1 root      root     2319 Mar 31  2024 bash.bashrc
-rw-r--r-- 1 root      root        45 Jan 24  2020 bash_completion
-rw-r--r-- 1 root      root      367 Aug  2  2022 bindresvport.blacklist
drwxr-xr-x 2 root      root      4096 Apr 19  2024 binfmt.d
drwxr-xr-x 2 root      root      4096 Aug  5 12:51 bluetooth
-rw-r--r-- 1 root      root        33 Aug  5 12:53 brlapi.key
drwxr-xr-x 7 root      root      4096 Aug  5 12:51 brltty
-rw-r--r-- 1 root      root     30571 Mar 30  2024 brltty.conf
drwxr-xr-x 3 root      root      4096 Aug  5 12:48 ca-certificates
-rw-r--r-- 1 root      root      6288 Aug  5 12:48 ca-certificates.conf
drwxr-s--- 2 root      dip      4096 Aug  5 12:51 chatscripts
drwxr-xr-x 5 root      root      4096 Aug 27 15:39 cloud
drwxr-xr-x 2 root      root      4096 Aug 27 15:37 colord
drwxr-xr-x 2 root      root      4096 Aug 27 15:34 console-setup
drwxr-xr-x 2 root      root      4096 Aug  5 12:51 cracklib
drwx----- 2 root      root      4096 Apr 19  2024 credstore
drwx----- 2 root      root      4096 Apr 19  2024 credstore.encrypted
drwxr-xr-x 2 root      root      4096 Aug  5 12:51 cxx.d
```

8. List all the files in the current directory that begin with the letter s.

```
Sep 3 15:20
prescott-kowalski@CYSE270Linux: /etc

drwxr-xr-x 2 root      root      4096 Aug  5 12:53 xml
-rw-r--r-- 1 root      root      460 Jan 20  2023 zsh_command_not_found

prescott-kowalski@CYSE270Linux:/etc$ ls s*
sensors3.conf  shadow  shells  subgid  subuid  sudoers  sysctl.conf
services       shadow- subgid  subuid  sudo.conf  sudo_logsrvd.conf

sane.d:
abatton.conf      coolscan2.conf  escl.conf      kvs1025.conf   pie.conf       sp15c.conf
agfafocus.conf    coolscan3.conf  fujitsu.conf   leo.conf       pieusb.conf    st400.conf
airscan.conf       coolscan.conf   genesys.conf   lexmark.conf   pixma.conf     stv680.conf
apple.conf         dc210.conf      gphoto2.conf   mai509.conf    plustek.conf   tamarack.conf
artec.conf         dc240.conf      gt68xx.conf    magicolor.conf  plustek_pp.conf  tecol.conf
artec_eplus48u.conf  dc25.conf      hp3900.conf     matsushita.conf  qcama.conf     tecol2.conf
avision.conf       dell1600n_net.conf  hp4200.conf    microtek2.conf  ricoh.conf     tecol3.conf
bh.conf            dll.conf        hp5400.conf    microtek.conf   rts8891.conf   test.conf
canon630u.conf     dml.d           hp.conf        mustek.conf     s9036.conf     u12.conf
canon.conf         dmc.conf        hpsj5s.conf    mustek_pp.conf  saned.conf     umax1220u.conf
canon_dr.conf      epjitsu.conf    hs2p.conf      mustek_usb.conf  sceptre.conf   umax.conf
canon_lide70.conf  epon2.conf      ibm.conf       nec.conf        sharp.conf     umax_pp.conf
canon_pp.conf      epon.conf       kodakiaio.conf net.conf        sm3840.conf    xerox_mfp.conf
cardscan.conf      epsonds.conf    kodak.conf     p5.conf         snapscan.conf

security:
access.conf        faillock.conf   limits.conf    namespace.conf  namespace.init  pam_env.conf   pwquality.conf  time.conf
capability.conf    group.conf      limits.d        namespace.d      opasswd         pwhistory.conf  sepermit.conf

selinux:
semanage.conf

sensors.d:

sgml:
```

9. Run the command that will determine the type of contents in the /etc/group file.

```
logind.conf  networkd.conf  pstore.conf  sleep.conf
prescott-kowalski@CYSE270Linux:/etc$ file /etc/group
/etc/group: ASCII text
```

10. Display only the last five lines of the /etc/group file.

```
prescott-kowalski@CYSE270Linux:/etc$ tail -n 5 /etc/group
nm-openvpn:x:122:
lxd:x:123:
gamemode:x:986:
gnome-initial-setup:x:985:
prescott-kowalski:x:1000:
```

11. Execute the command to return to your home directory.

```
prescott-kowalski@CYSE270Linux:/etc$ cd
prescott-kowalski@CYSE270Linux:~$
```

12. Make a directory named data in the current directory.

```
prescott-kowalski@CYSE270Linux:~$ mkdir data
prescott-kowalski@CYSE270Linux:~$
```

13. Copy the /etc/passwd file into the data directory.

```
prescott-kowalski@CYSE270Linux:~$ cp /etc/passwd data/
prescott-kowalski@CYSE270Linux:~$
```

14. Copy the /etc/ppp directory into the current directory (and ignore any "Permission denied" error messages).

```
prescott-kowalski@CYSE270Linux:~$ cp -r /etc/ppp . 2>/dev/null
prescott-kowalski@CYSE270Linux:~$ mv ppp peers
```

15. Rename the ppp directory that is located in the current directory to peers.

```
prescott-kowalski@CYSE270Linux:~$ cp -r /etc/ppp . 2>/dev/null
prescott-kowalski@CYSE270Linux:~$ mv ppp peers
```

16. Execute the command (ls) to verify the change in the name of the directory.

```
prescott-kowalski@CYSE270Linux:~$ ls
data  Desktop  Documents  Downloads  Music  peers
```

17. Create a new empty file named test in the data directory.

```
prescott-kowalski@CYSE270Linux:~$ touch data/test
prescott-kowalski@CYSE270Linux:~$
```

18. Delete the data/passwd file.

```
prescott-kowalski@CYSE270Linux:~$ rm data/passwd  
prescott-kowalski@CYSE270Linux:~$
```

19. Delete the peers directory.

```
prescott-kowalski@CYSE270Linux:~$ rm -r peers  
prescott-kowalski@CYSE270Linux:~$
```

20. Re-execute the ls command.

```
prescott-kowalski@CYSE270Linux:~$ ls  
data Desktop Documents Downloads Music Pictures Public snap Templates Videos  
prescott-kowalski@CYSE270Linux:~$
```