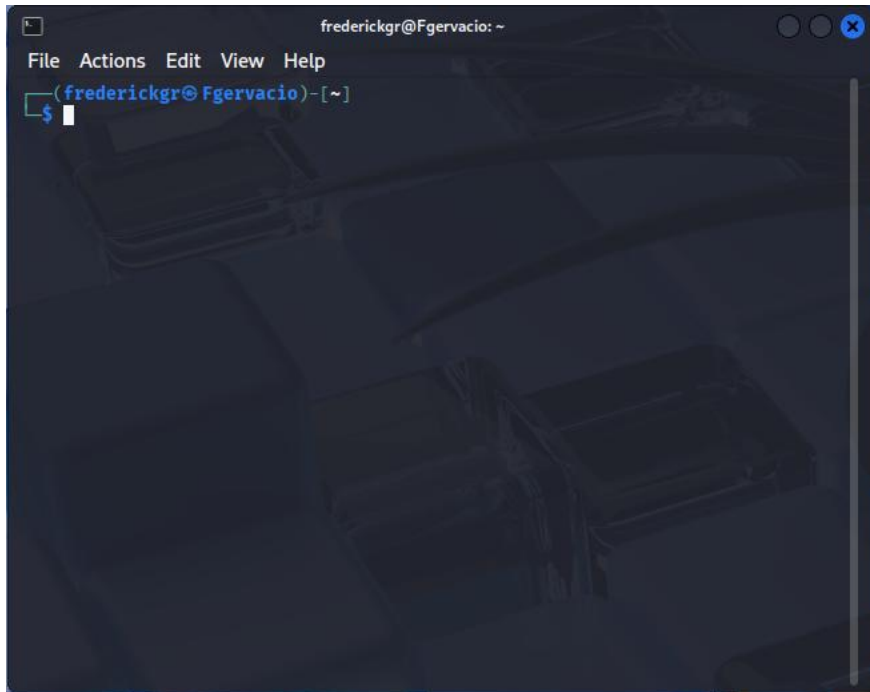


**Frederick Gervacio**

**CYSE 270-17496: Linux System for Cybersecurity**

**Assignment 2**

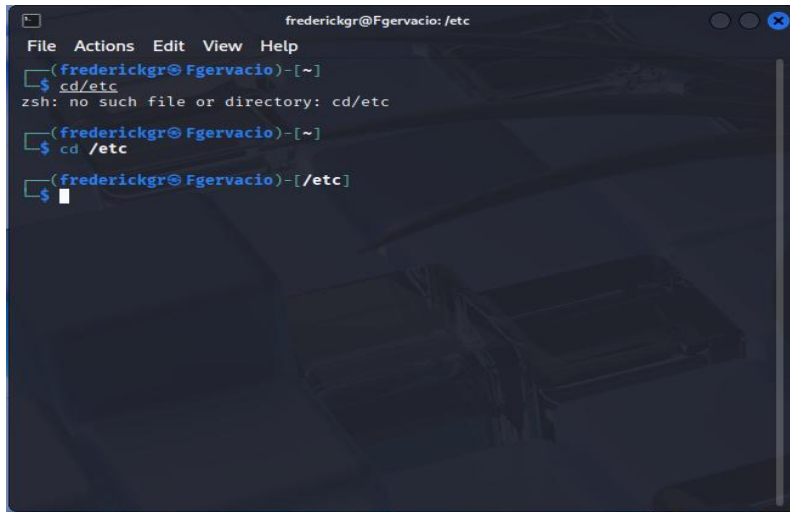
**Step 1: Open a terminal window.**



**Step 2: Display your current working directory.**



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



```
frederickgr@Fgervacio: /etc
File Actions Edit View Help
(frederickgr@Fgervacio)-[~]
$ cd/etc
zsh: no such file or directory: cd/etc
(frederickgr@Fgervacio)-[~]
$ cd /etc
(frederickgr@Fgervacio)-[/etc]
$
```

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



```
frederickgr@Fgervacio: /etc/skel
File Actions Edit View Help
(frederickgr@Fgervacio)-[~]
$ pwd
/home/frederickgr
(frederickgr@Fgervacio)-[~]
$ cd -
~
(frederickgr@Fgervacio)-[~]
$ cd /etc
(frederickgr@Fgervacio)-[/etc]
$ cd ../etc/skel
(frederickgr@Fgervacio)-[/etc/skel]
$
```

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



```
frederickgr@Fgervacio: /etc
File Actions Edit View Help
(frederickgr@Fgervacio)-[~]
$ pwd
/home/frederickgr
(frederickgr@Fgervacio)-[~]
$ cd -
~
(frederickgr@Fgervacio)-[~]
$ cd /etc
(frederickgr@Fgervacio)-[/etc]
$ cd ../etc/skel
(frederickgr@Fgervacio)-[/etc/skel]
$ cd ..
(frederickgr@Fgervacio)-[/etc]
$
```

Step 6: List the files in the current directory.

```
frederickgr@Fgervacio: /etc
File Actions Edit View Help
└─$ -a
-a: command not found

(frederickgr@Fgervacio)-[/etc]
└─$ ls -a
.                ipsec.conf      python3.13
..               ipsec.d         radcli
adduser.conf    ipsec.secrets  rc0.d
alternatives   issue          rc1.d
apache2        issue.net      rc2.d
apparmor       .java          rc3.d
apparmor.d     java-21-openjdk rc4.d
apt            john           rc5.d
arp-scan       kali-menu      rc6.d
avahi          kernel         rc5.d
bash.bashrc    kernel-img.conf reader.conf.d
bash_completion keyutils       rearj.cfg
bash_completion.d kismet        redis
bindresvport.blacklist ldap           redsocks.conf
binfmt.d       ld.so.cache   request-key.conf
bluetooth     ld.so.conf    request-key.d
ca-certificates ld.so.conf.d  resolv.conf
ca-certificates.conf legion.conf    responder
chatscripts   libao.conf    rmt
chromium      libaudit.conf rpc
chromium.d    libblockdev   runit
cifs-utils    libccid_Info.plist samba
cloud         libnl-3       sane.d
colord        libpaper.d    scalpel
console-setup lightdm        screenrc
cracklib      lighttpd      sddm.conf.d
credstore     locale.alias  searchsploit_rc
credstore.encrypted locale.conf    security
cron.d        locale.gen    selinux
cron.daily    localtime    sensors3.conf
cron.hourly   logcheck     sensors.d
cron.monthly  login.defs   services
crontab       logrotate.conf sgml
cron.weekly   logrotate.d  shadow
cron.yearly   macchanger   shadow-
cryptsetup-initramfs machine-id    shells
cryptsetup-nyuke-password magic         skel
crypttab      magic.mime    smartd.conf
cupshelpers   manpath.config smartmontools
dbus-1        matplotlibrc smi.conf
dconf         mime.types    snmp
debconf.conf  minicom      speech-dispatcher
debian_version miredo       sqlmap
default       miredo.conf  ssh
deluser.conf  mke2fs.conf  ssl
```

```
frederickgr@Fgervacio: /etc
File Actions Edit View Help
dictionaries-common      modules-load.d          stunnel
dns2tcpd.conf            mosquitto               subgid
doc-base                 motd                    subgid-
dPKG                     mtab                   subuid
e2scrub.conf            mysql                   subuid-
eac                      nanorc                  subversion
emacs                    netconfig               sudo.conf
environment              netsniff-ng             sudoers
environment.d           NetworkManager          sudoers.d
ethertypes              networks                sudo_logsrvd.conf
ettercap                 nfs.conf               supercat
firebird                 nfs.conf.d             sv
firefox-esr             nftables.conf          sysctl.d
fonts                    nginx                   sysstat
freetds                  niko.conf              systemd
fstab                    nsisconf.nsh           terminfo
fuse.conf                nsswitch.conf          texmf
gai.conf                 ODBCDataSources       theHarvester
geoclue                  odbc.ini               tightvncserver.conf
ghostscript              odbcinst.ini           timidity
glvnd                    openal                  tmpfiles.d
gnome-system-tools      OpenCL                  ts.conf
gophish                  openni2                 ucf.conf
gprofng.rc              opencv                  udev
groff                    openvas                  udisks2
group                    openvpn                 ufw
group-                   opt                      unicornscaN
grub.d                   os-release              .updated
gshadow                  pam.conf                updatedb.conf
gshadow-                 pam.d                   update-motd.d
gss                       paperspecs              UPower
gtk-2.0                  passwd                  usb_modeswitch.conf
gtk-3.0                  passwd-                 usb_modeswitch.d
guymager                  perl                     vconsole.conf
gvm                       php                      vdpau_wrapper.cfg
hdparm.conf              plymouth                vim
host.conf                 polkit-1                vpnc
hostname                  postgresql              vulkan
hosts                     postgresql-common       wgetrc
hosts.allow               powershell-empire      wireshark
hosts.deny                 ppp                      wpa_supplicant
idmapd.conf               profile                  X11
ifplugd                   profile.d                xattr.conf
ImageMagick-7             protocols               xdg
inetsim                   proxychains4.conf       xfce4
init.d                     pulse                    xml
initramfs-tools          .pwd.lock               xrdp
inputrc                   python2.7                zsh
insserv.conf.d            python3                  zsh_command_not_found
ipp-usb
```

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

```
frederickgr@Fgervacio: /etc
File Actions Edit View Help

(frederickgr@Fgervacio)-[/etc]
$ ls -l
total 1508
-rw-r--r-- 1 root root 3981 May 6 14:25 adduser.conf
drwxr-xr-x 2 root root 20480 Sep 4 15:05 alternatives
drwxr-xr-x 8 root root 4096 Sep 4 15:04 apache2
drwxr-xr-x 2 root root 4096 Sep 4 14:57 apparmor
drwxr-xr-x 9 root root 4096 Sep 4 15:04 apparmor.d
drwxr-xr-x 8 root root 4096 Sep 4 15:09 apt
drwxr-xr-x 2 root root 4096 Sep 4 15:02 arp-scan
drwxr-xr-x 3 root root 4096 Sep 4 15:04 avahi
-rw-r--r-- 1 root root 1997 May 19 14:11 bash.bashrc
-rw-r--r-- 1 root root 45 Jan 11 2025 bash_completion
drwxr-xr-x 2 root root 4096 Sep 4 15:04 bash_completion.d
-rw-r--r-- 1 root root 367 Mar 14 18:56 bindresvport.blacklist
drwxr-xr-x 2 root root 4096 Apr 7 13:39 binfmt.d
drwxr-xr-x 2 root root 4096 Sep 4 15:04 bluetooth
drwxr-xr-x 3 root root 4096 Sep 4 14:58 ca-certificates
-rw-r--r-- 1 root root 6422 Sep 4 15:02 ca-certificates.conf
drwxr-xr-x 2 root root 4096 Sep 4 15:03 chatscripts
drwxr-xr-x 2 root root 4096 Sep 4 15:02 chromium
drwxr-xr-x 2 root root 4096 Sep 4 15:04 chromium.d
drwxr-xr-x 2 root root 4096 Sep 4 15:03 cifs-utils
drwxr-xr-x 3 root root 4096 Sep 4 15:00 cloud
drwxr-xr-x 2 colord colord 4096 Sep 4 15:18 colord
drwxr-xr-x 2 root root 4096 Sep 4 14:57 console-setup
drwxr-xr-x 2 root root 4096 Sep 4 15:02 cracklib
drwxr-xr-x 2 root root 4096 Apr 7 13:39 credstore
drwxr-xr-x 2 root root 4096 Apr 7 13:39 credstore.encrypted
drwxr-xr-x 2 root root 4096 Sep 4 15:03 cron.d
drwxr-xr-x 2 root root 4096 Sep 4 15:04 cron.daily
drwxr-xr-x 2 root root 4096 Sep 4 14:56 cron.hourly
drwxr-xr-x 2 root root 4096 Sep 4 14:56 cron.monthly
-rw-r--r-- 1 root root 1042 Apr 6 14:47 crontab
drwxr-xr-x 2 root root 4096 Sep 4 15:03 cron.weekly
drwxr-xr-x 2 root root 4096 Sep 4 14:56 cron.yearly
drwxr-xr-x 2 root root 4096 Sep 4 15:04 cryptsetup-initramfs
drwxr-xr-x 2 root root 4096 Apr 10 16:09 cryptsetup-ntfs
-rw-r--r-- 1 root root 54 Sep 4 14:59 crypttab
drwxr-xr-x 2 root root 4096 Sep 4 15:04 cupshelpers
drwxr-xr-x 4 root root 4096 Sep 4 14:58 dbus-1
drwxr-xr-x 3 root root 4096 Sep 4 14:58 dconf
-rw-r--r-- 1 root root 2967 Mar 10 08:07 debconf.conf
-rw-r--r-- 1 root root 13 May 15 21:57 debian_version
drwxr-xr-x 3 root root 4096 Sep 4 15:06 default
-rw-r--r-- 1 root root 1706 May 6 14:25 deluser.conf
drwxr-xr-x 2 root root 4096 May 13 14:26 depmod.d
drwxr-xr-x 3 root root 4096 Sep 4 14:58 dhcp
-rw-r--r-- 1 root root 1275 Apr 20 05:05 dhcpcd.conf
```

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

```
frederickgr@Fgervacio: /etc
File Actions Edit View Help

(frederickgr@Fgervacio)-[/etc]
$ ls -a s*
screenrc          shadow           smi.conf         subuid           sudo_logsrvd.conf
searchsploit_rc  shadow-         strongswan.conf subuid-          sudo.conf
sensors3.conf    shells          subgid           sudoers
services         smartd.conf     subgid-

samba:
* .. gdbcommands smb.conf

sane.d:
* .. dell1600n_net.conf kvs1025.conf rts8891.conf
* .. dll.conf          leo.conf         s9036.conf
abatn.conf       dll.d           lexmark.conf    saned.conf
agfafocus.conf  dmc.conf        lexmark_x2600.conf sceptre.conf
airscan.conf     epjitsu.conf    ma1509.conf     sharp.conf
apple.conf       epon2.conf      magicolor.conf  sm3840.conf
artec.conf       epon.conf       matsushita.conf snapscan.conf
artec_eplus48u.conf epsonds.conf    microtek2.conf  sp15c.conf
avision.conf     escl.conf       microtek.conf   st400.conf
bh.conf          fujitsu.conf    mustek.conf     stv680.conf
canon630u.conf   genesys.conf    mustek_pp.conf  tamarack.conf
canon.conf       gphoto2.conf    mustek_usb.conf teco1.conf
canon_dr.conf    gt68xx.conf     nec.conf         teco2.conf
canon_lide70.conf hp3900.conf     net.conf         teco3.conf
canon_pp.conf    hp4200.conf     p5.conf          test.conf
cardscan.conf    hp5400.conf     pie.conf         u12.conf
coolscan2.conf   hp.conf         pieusb.conf     umax1220u.conf
coolscan3.conf   hpsj5s.conf    pixma.conf      umax.conf
coolscan.conf    hs2p.conf       plustek.conf    umax_pp.conf
dc210.conf       ibm.conf        plustek_pp.conf v4l.conf
dc240.conf       kodakaio.conf   qcama.conf      xerox_mfp.conf
dc25.conf        kodak.conf      ricoh.conf

scalpel:
* .. scalpel.conf

sddm.conf.d:
* .. kde_settings.conf

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

selinux:
* .. semanage.conf
```

```
frederickgr@Fgervacio: /etc
File Actions Edit View Help
semanage.conf

sensors.d:
* .. .placeholder

sgml:
* .. catalog docbook-xml docbook-xml.cat sgml-data.cat xml-core.cat

skel:
* .. .bash_logout .bashrc.original .face .java .profile .zshrc
.. .bashrc .config .face.icon .local .zprofile

smartmontools:
* .. run.d smartd_warning.d

snmp:
* .. snmp.conf snmpd.conf snmpd.conf.d

speech-dispatcher:
* .. clients modules speechd.conf

sqlmap:
* .. sqlmap.conf

ssh:
* .. ssh_config.d ssh_host_ecdsa_key.pub ssh_host_rsa_key.pub
.. sshd_config ssh_host_ed25519_key
moduli sshd_config.d ssh_host_ed25519_key.pub
ssh_config ssh_host_ecdsa_key ssh_host_rsa_key

ssl:
* .. certs kali.cnf openssl.cnf openssl.cnf.dpkg-new private

sslsplit:
* .. sslsplit.conf.sample

strongswan.d:
* .. charon charon.conf charon-logging.conf starter.conf

stunnel:
* .. README

subversion:
* .. config servers

sudoers.d:
* .. kali-grant-root ospd-openvas README

supercat:
* .. spcrc-crontab spcrc-crontab-light
```

```
supercat:
* .. spcrc-crontab spcrc-crontab-light

sv:
* .. pcsd ssh

sysctl.d:
* .. README.sysctl

sysstat:
* .. sysstat sysstat.ioconf

systemd:
* .. logind.conf pstore.conf system.conf user.conf
.. network sleep.conf timesyncd.conf
journal.d.conf networkd.conf system user

(frederickgr@Fgervacio)-[/etc]
$
```

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

```
(frederickgr@Fgervacio)-[/etc]
└─$ file /etc/group
/etc/group: ASCII text
└─$
```

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

```
(frederickgr@Fgervacio)-[/etc]
└─$ tail -5 /etc/group
color:x:131:
kali-trusted:x:132:
frederickgr:x:1000:
vboxsf:x:133:frederickgr
kaboxer:x:134:frederickgr
└─$
```

Step 11: Execute the command to return to your home directory

```
(frederickgr@Fgervacio)-[/etc]
└─$ cd ~
(frederickgr@Fgervacio)-[~]
└─$ pwd
/home/frederickgr
└─$
```

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

```
(frederickgr@Fgervacio)-[~]
└─$ mkdir data
(frederickgr@Fgervacio)-[~]
└─$ ls
data Desktop Documents Downloads Music Pictures Public Templates Videos
└─$
```

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

```
(frederickgr@Fgervacio)-[~]
└─$ cp /etc/passwd ~/data
(frederickgr@Fgervacio)-[~]
└─$
```

Step 14: Copy the /etc/ppp directory into the current directory (and ignore any “Permission denied” error messages).

```
(frederickgr@Fgervacio)-[~]
└─$ cp -r /etc/ppp
cp: missing destination file operand after '/etc/ppp'
Try 'cp --help' for more information.

(frederickgr@Fgervacio)-[~]
└─$ cp -r /etc/ppp . 2>/dev/null
```

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

```
(frederickgr@Fgervacio)-[~]
└─$ ls
data  Documents  Music  ppp  Templates  w
Desktop  Downloads  Pictures  Public  Videos

(frederickgr@Fgervacio)-[~]
└─$ mv ppp peers

(frederickgr@Fgervacio)-[~]
└─$ ls
data  Documents  Music  Pictures  Templates  w
Desktop  Downloads  peers  Public  Videos

(frederickgr@Fgervacio)-[~]
└─$
```

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

```
(frederickgr@Fgervacio)-[~]
└─$ ls
data  Documents  Music  ppp  Templates  w
Desktop  Downloads  Pictures  Public  Videos

(frederickgr@Fgervacio)-[~]
└─$ mv ppp peers

(frederickgr@Fgervacio)-[~]
└─$ ls
data  Documents  Music  Pictures  Templates  w
Desktop  Downloads  peers  Public  Videos

(frederickgr@Fgervacio)-[~]
└─$
```

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

```
(frederickgr@Fgervacio)-[~]
└─$ mkdir data/test

(frederickgr@Fgervacio)-[~]
└─$ cd data

(frederickgr@Fgervacio)-[~/data]
└─$ ls
passwd  test
```

Step 18: Delete the data/passwd file.

```
(frederickgr@Fgervacio)-[~/data]
└─$ _

(frederickgr@Fgervacio)-[~]
└─$ rm data/passwd
```

Step 19: Delete the peers directory.

```
(frederickgr@Fgervacio)-[~]
└─$ rm peers
rm: cannot remove 'peers': Is a directory

(frederickgr@Fgervacio)-[~]
└─$ rm -rf peers
```

Step 20: Re-execute the ls command.

```
(frederickgr@Fgervacio)-[~]
└─$ ls
data      Documents Music      Public      Videos
Desktop  Downloads Pictures  Templates  w

(frederickgr@Fgervacio)-[~]
└─$
```