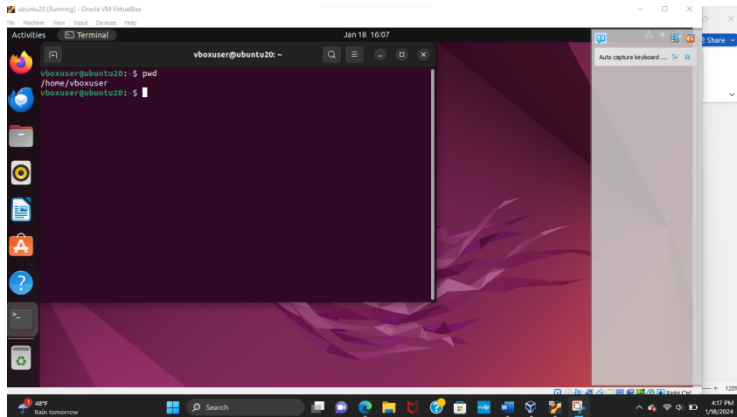
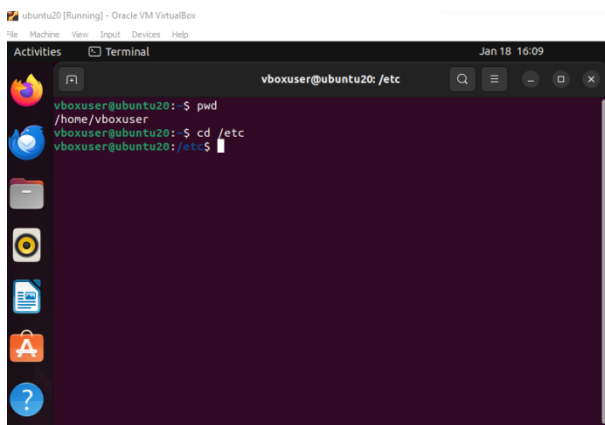


CYSE 270: Assignment Two

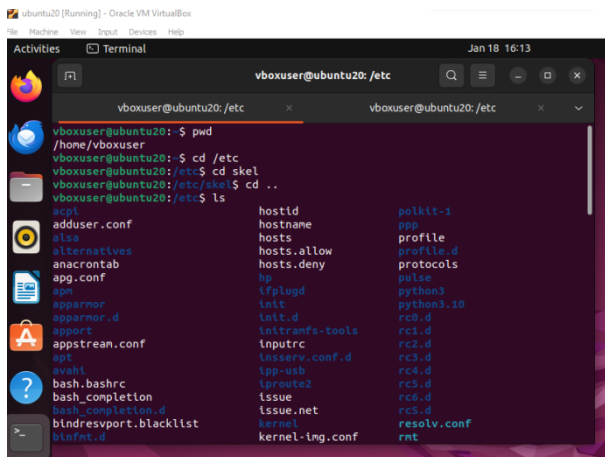
Step 2



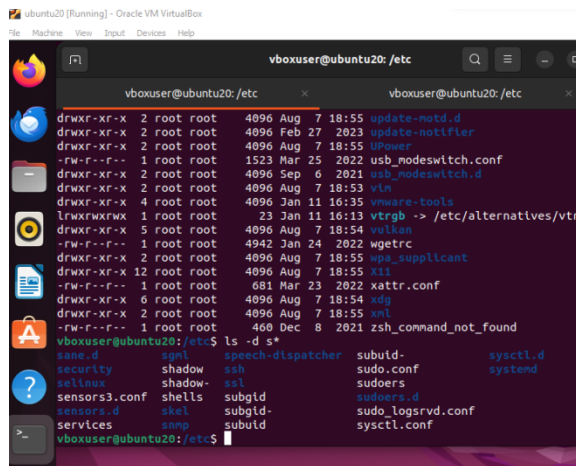
Step 3



Step 4-6



Step 7 – 8

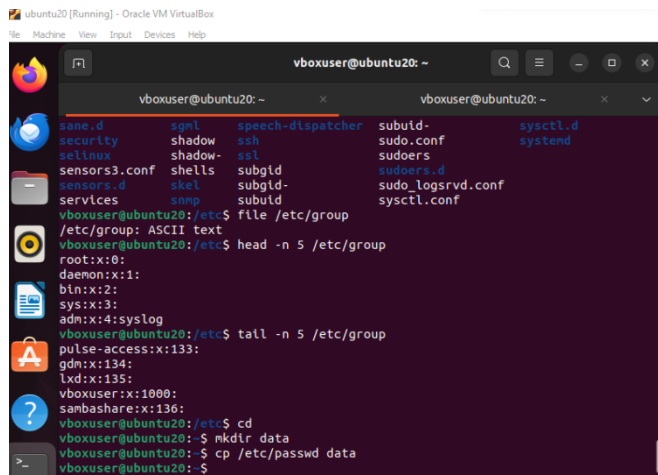


```
vboxuser@ubuntu20: /etc
drwxr-xr-x 2 root root 4096 Aug 7 18:55 update-notif.d
drwxr-xr-x 2 root root 4096 Feb 27 2023 update-notifier
drwxr-xr-x 2 root root 4096 Aug 7 18:55 UPower
-rw-r--r-- 1 root root 1523 Mar 25 2022 usb_modeswitch.conf
drwxr-xr-x 2 root root 4096 Sep 6 2021 usb_modeswitch.d
drwxr-xr-x 2 root root 4096 Aug 7 18:53 x1n
drwxr-xr-x 4 root root 4096 Jan 11 16:35 vmware-tools
lrwxrwxrwx 1 root root 23 Jan 11 16:13 vtrgb -> /etc/alternatives/vtrgb
drwxr-xr-x 5 root root 4096 Aug 7 18:54 vulkan
-rw-r--r-- 1 root root 4942 Jan 24 2022 wgetrc
drwxr-xr-x 2 root root 4096 Aug 7 18:55 wpa_supplicant
drwxr-xr-x 12 root root 4096 Aug 7 18:55 x11
-rw-r--r-- 1 root root 681 Mar 23 2022 xattr.conf
drwxr-xr-x 6 root root 4096 Aug 7 18:54 xdg
drwxr-xr-x 2 root root 4096 Aug 7 18:55 xml
-rw-r--r-- 1 root root 460 Dec 8 2021 zsh_command_not_found
vboxuser@ubuntu20:/etc$ ls -d s*
sane.d          sgml          speech-dispatcher subuid-        sysctl.d
security        shadow        ssh            sudo.conf     systemd
selinux         shadow-       ssl            sudoers       sudoers.d
sensors3.conf   shells       subgid        sudo_logsrvd.conf
sensors.d       skel         subgid-       sudo_logsrvd.conf
services        snmp         subuid        sysctl.conf
```

Step 9 – 10

```
drwxr-xr-x 2 root root 4096 Aug 7 18:55 xml
-rw-r--r-- 1 root root 460 Dec 8 2021 zsh_command_not_found
vboxuser@ubuntu20:/etc$ ls -d s*
sane.d          sgml          speech-dispatcher subuid-        sysctl.d
security        shadow        ssh            sudo.conf     systemd
selinux         shadow-       ssl            sudoers       sudoers.d
sensors3.conf   shells       subgid        sudo_logsrvd.conf
sensors.d       skel         subgid-       sudo_logsrvd.conf
services        snmp         subuid        sysctl.conf
vboxuser@ubuntu20:/etc$ file /etc/group
/etc/group: ASCII text
vboxuser@ubuntu20:/etc$ head -n 5 /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog
vboxuser@ubuntu20:/etc$ tail -n 5 /etc/group
pulse-access:x:133:
gdm:x:134:
lxd:x:135:
vboxuser:x:1000:
sambashare:x:136:
```

Step 11 – 13



```
vboxuser@ubuntu20: ~
sane.d          sgml          speech-dispatcher subuid-        sysctl.d
security        shadow        ssh            sudo.conf     systemd
selinux         shadow-       ssl            sudoers       sudoers.d
sensors3.conf   shells       subgid        sudo_logsrvd.conf
sensors.d       skel         subgid-       sudo_logsrvd.conf
services        snmp         subuid        sysctl.conf
vboxuser@ubuntu20:/etc$ file /etc/group
/etc/group: ASCII text
vboxuser@ubuntu20:/etc$ head -n 5 /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog
vboxuser@ubuntu20:/etc$ tail -n 5 /etc/group
pulse-access:x:133:
gdm:x:134:
lxd:x:135:
vboxuser:x:1000:
sambashare:x:136:
vboxuser@ubuntu20:/etc$ cd
vboxuser@ubuntu20:~$ mkdir data
vboxuser@ubuntu20:~$ cp /etc/passwd data
vboxuser@ubuntu20:~$
```

Step 14 – 16

```
ubuntu20 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

vboxuser@ubuntu20: ~
vboxuser@ubuntu20: ~
vboxuser@ubuntu20: ~
vboxuser@ubuntu20:~$ cp -r /etc/ppp /home
cp: cannot create directory '/home/ppp': Permission denied
vboxuser@ubuntu20:~$ ls
anyiah Desktop Downloads file2.txt Pictures snap Videos
data Documents file1.txt Music Public Templates what
vboxuser@ubuntu20:~$ cp -r /etc/ppp ~
cp: cannot access '/etc/ppp/peers': Permission denied
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied
vboxuser@ubuntu20:~$ man cp
vboxuser@ubuntu20:~$ cp -r /etc/ppp /home/vboxuser
cp: cannot access '/etc/ppp/peers': Permission denied
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied
vboxuser@ubuntu20:~$ ^C
vboxuser@ubuntu20:~$ man cp
vboxuser@ubuntu20:~$ mv /etc/ppp peers
mv: cannot move '/etc/ppp' to 'peers': Permission denied
vboxuser@ubuntu20:~$ man mv
vboxuser@ubuntu20:~$ mv ppp peers
vboxuser@ubuntu20:~$ ls
anyiah Desktop Downloads file2.txt peers Public Templates what
data Documents file1.txt Music Pictures snap Videos
vboxuser@ubuntu20:~$
```

Step 17

```
ubuntu20 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

vboxuser@ubuntu20: ~/data
vboxuser@ubuntu20: ~/data
vboxuser@ubuntu20: ~
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog
vboxuser@ubuntu20:/etc$ tail -n 5 /etc/group
pulse-access:x:133:
gdm:x:134:
lxd:x:135:
vboxuser:x:1000:
sambashare:x:136:
vboxuser@ubuntu20:/etc$ cd
vboxuser@ubuntu20:~$ mkdir data
vboxuser@ubuntu20:~$ cp /etc/passwd data
vboxuser@ubuntu20:~$ cp -r /etc/ppp /home/vboxuser
cp: cannot access '/etc/ppp/peers': Permission denied
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied
vboxuser@ubuntu20:~$ mv ppp peers
mv: cannot stat 'ppp': No such file or directory
vboxuser@ubuntu20:~$ cd data
vboxuser@ubuntu20:~/data$ touch test
vboxuser@ubuntu20:~/data$ ls
passwd test
vboxuser@ubuntu20:~/data$
```

Step 18

```

adm:x:4:syslog
vboxuser@ubuntu20:/etc$ tail -n 5 /etc/group
pulse-access:x:133:
gdm:x:134:
lxd:x:135:
vboxuser:x:1000:
sambashare:x:136:
vboxuser@ubuntu20:/etc$ cd
vboxuser@ubuntu20:~$ mkdir data
vboxuser@ubuntu20:~$ cp /etc/passwd data
vboxuser@ubuntu20:~$ cp -r /etc/ppp /home/vboxuser
cp: cannot access '/etc/ppp/peers': Permission denied
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied
vboxuser@ubuntu20:~$ mv ppp peers
mv: cannot stat 'ppp': No such file or directory
vboxuser@ubuntu20:~$ cd data
vboxuser@ubuntu20:~/data$ touch test
vboxuser@ubuntu20:~/data$ ls
passwd  test
vboxuser@ubuntu20:~/data$ rm passwd
vboxuser@ubuntu20:~/data$ ls
test
vboxuser@ubuntu20:~/data$

```

Step 19 – 20

```

vboxuser@ubuntu20:~$ rm -r peers
vboxuser@ubuntu20:~$ ls
anyiah  Desktop  Downloads  file2.txt  Pictures  snap      Videos
data    Documents  file1.txt  Music      Public    Templates  what
vboxuser@ubuntu20:~$

```