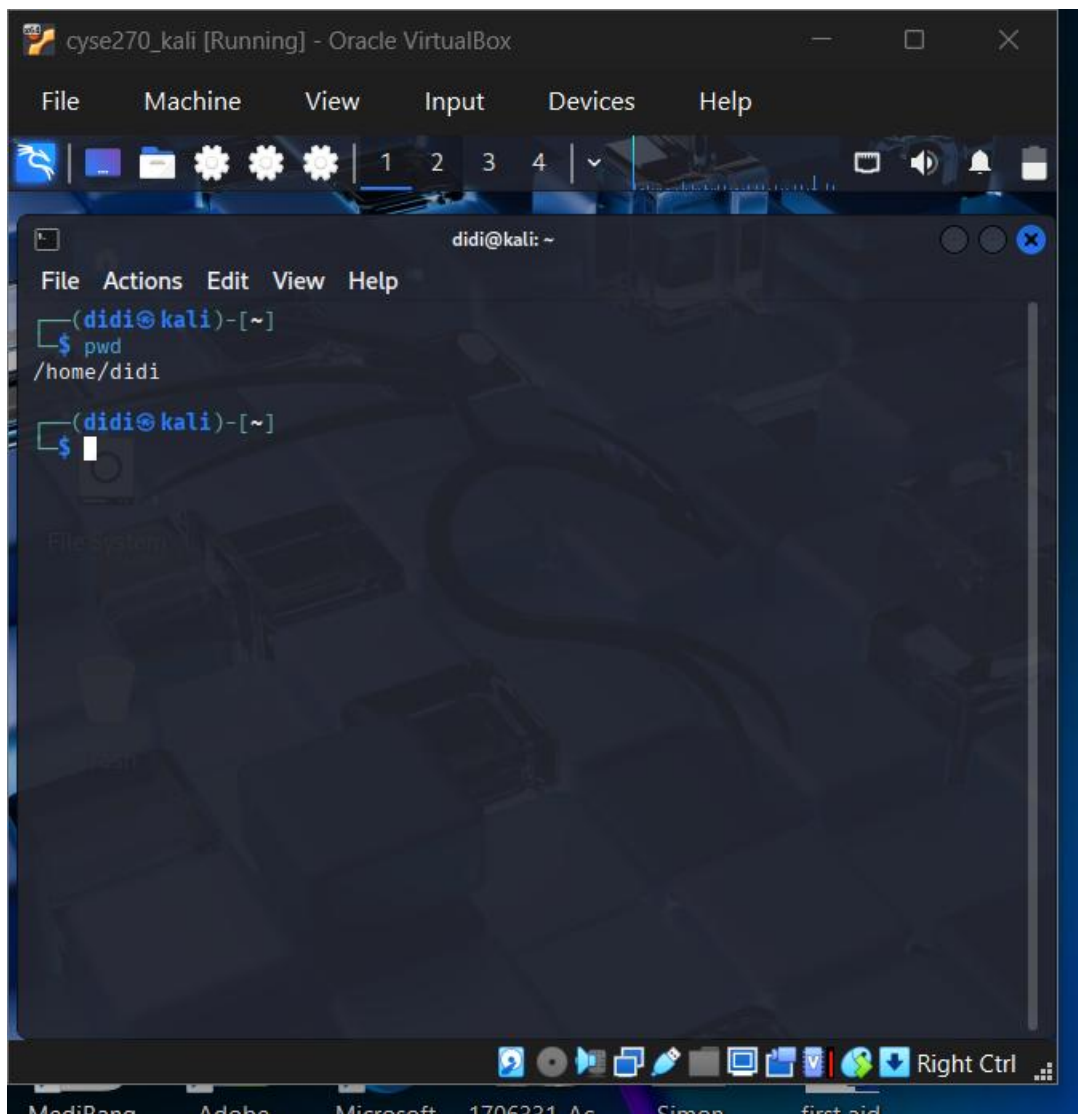


## CYSE 270: Linux System for Cybersecurity Assignment 2

### Steps

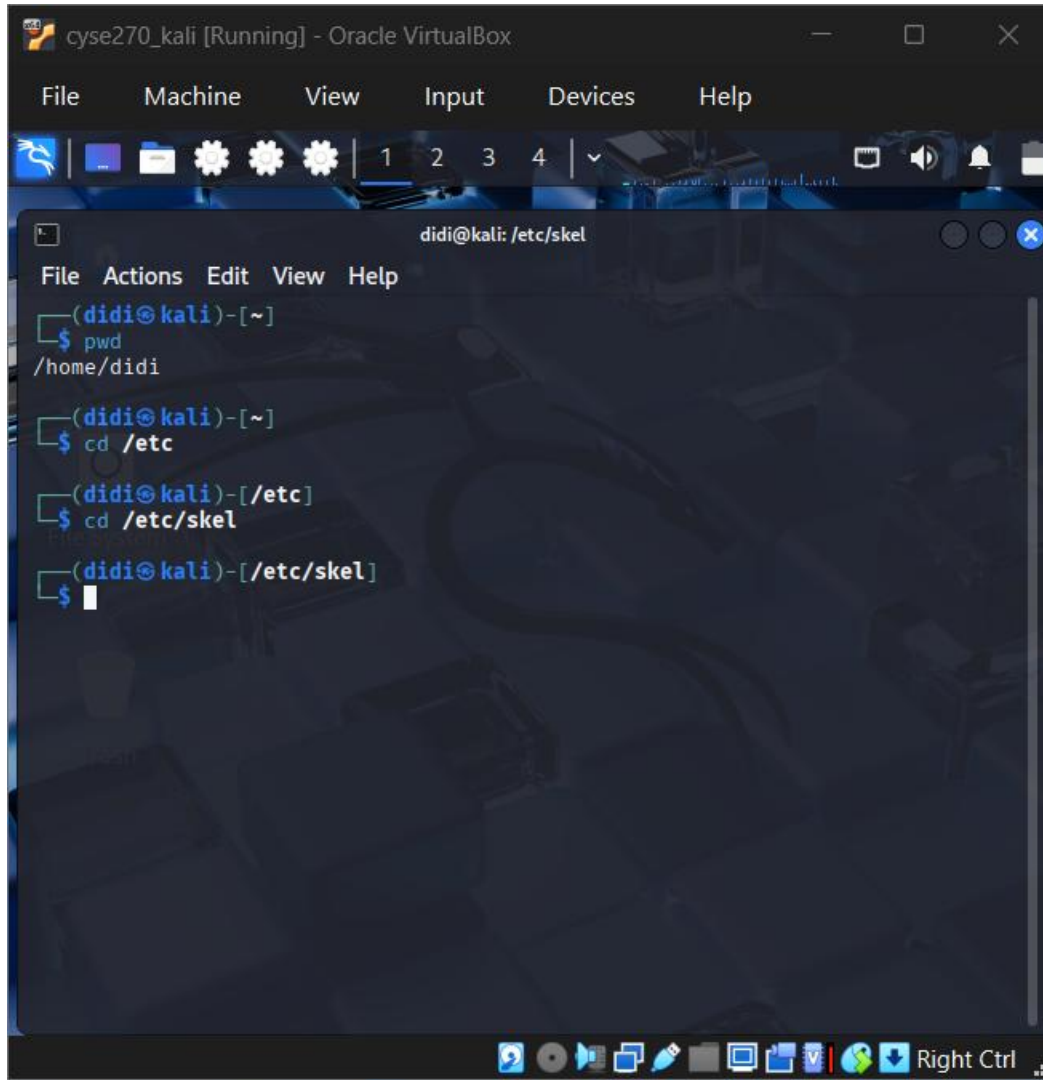
1. Open a terminal window.
2. Display your current working directory.



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

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



The screenshot shows a terminal window titled 'didi@kali: /etc/skel'. The terminal output shows the following sequence of commands and their results:

```
(didi@kali)-[~]  
$ pwd  
/home/didi  
  
(didi@kali)-[~]  
$ cd /etc  
  
(didi@kali)-[/etc]  
$ cd /etc/skel  
  
(didi@kali)-[/etc/skel]  
$
```

The terminal window is part of an Oracle VM VirtualBox environment, as indicated by the title bar 'cyse270\_kali [Running] - Oracle VirtualBox'. The window has a menu bar with 'File', 'Machine', 'View', 'Input', 'Devices', and 'Help'. The terminal window itself has a menu bar with 'File', 'Actions', 'Edit', 'View', and 'Help'. The terminal window also has a title bar 'didi@kali: /etc/skel' and a close button.

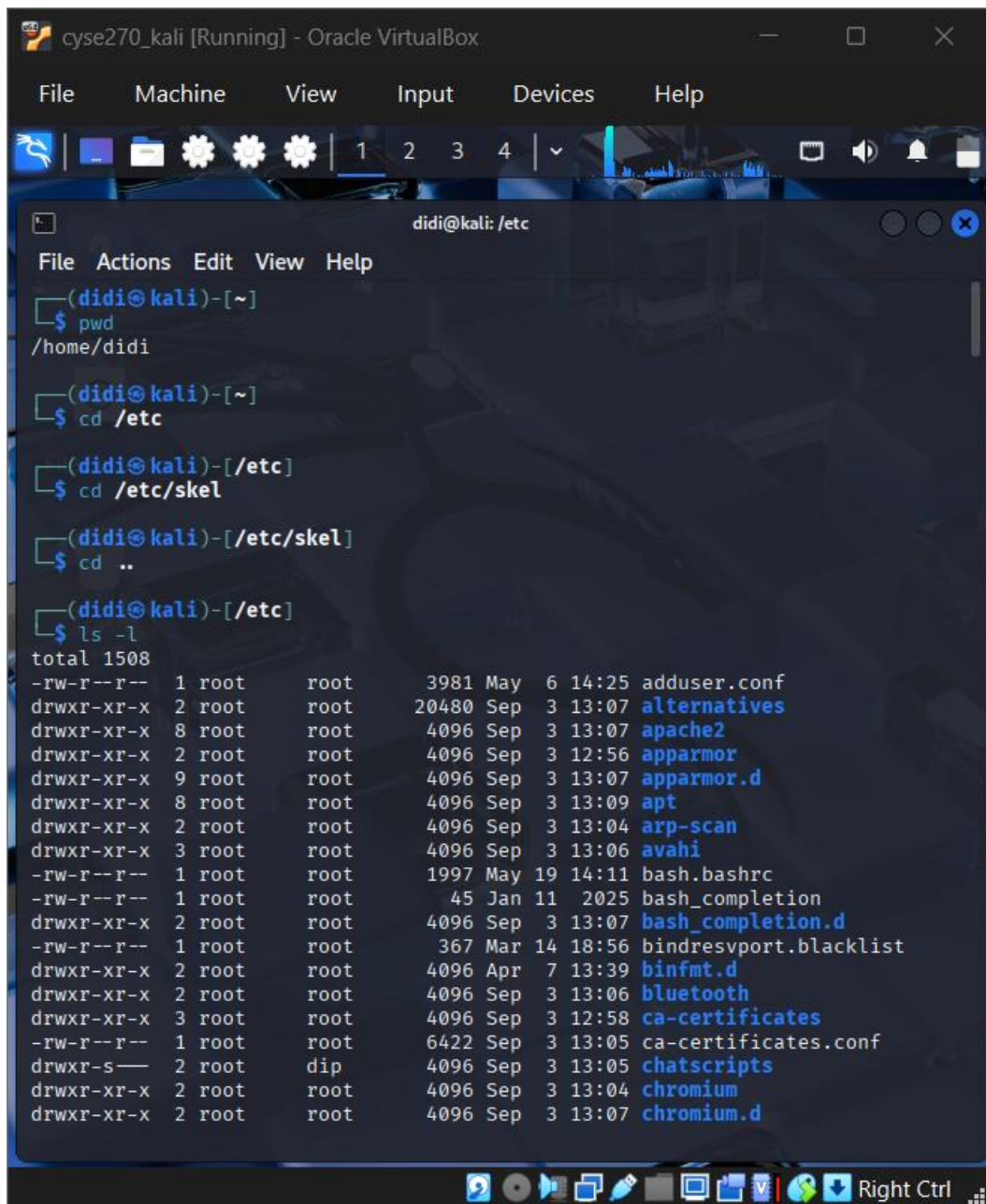
**5. Using a relative pathname, move up one directory.**

**6. List the files in the current directory.**

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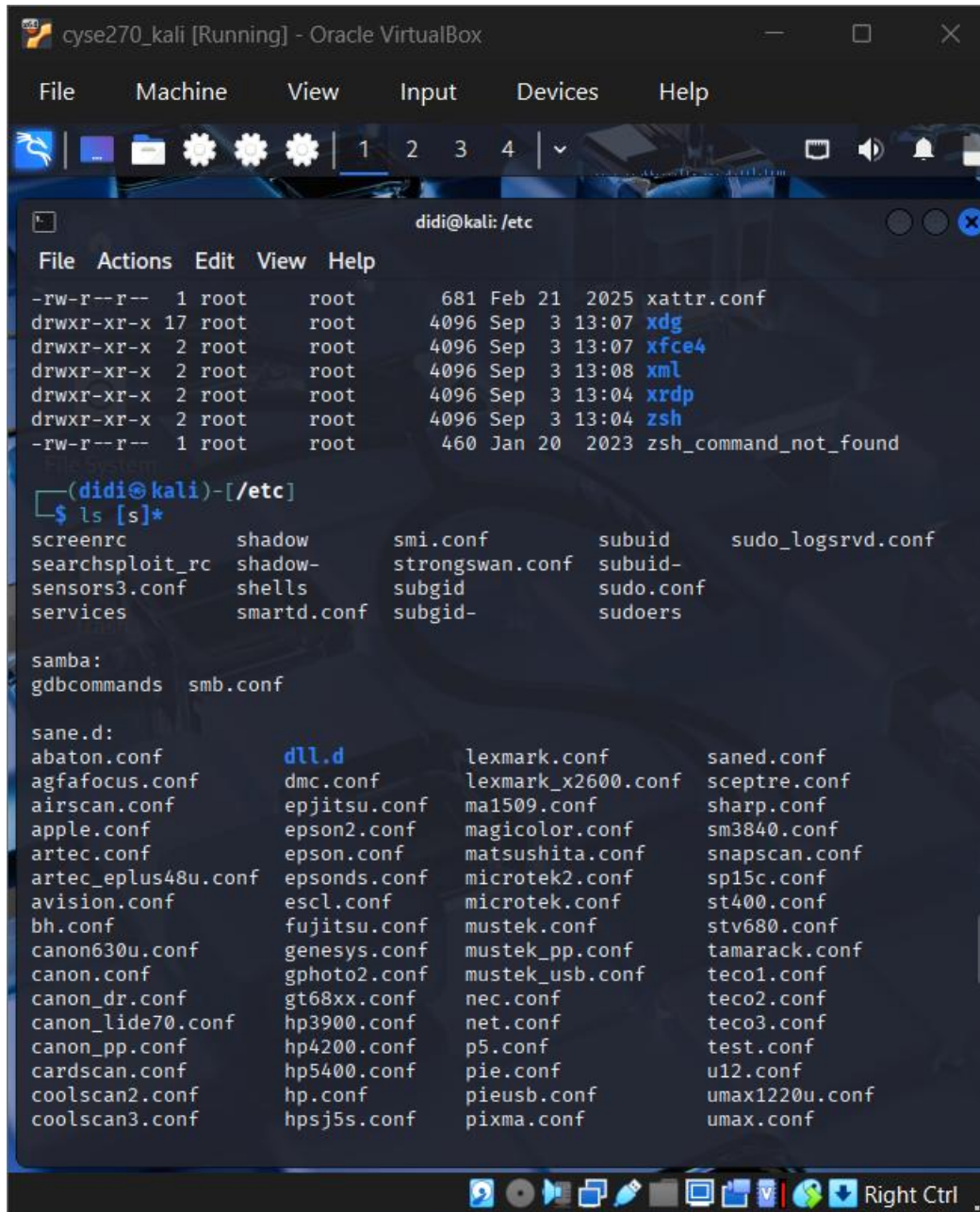
## 7. Perform a "long display" listing of the files in the current directory



The screenshot shows a Kali Linux terminal window titled "cyse270\_kali [Running] - Oracle VirtualBox". The terminal displays the following commands and output:

```
didi@kali: /etc
File Actions Edit View Help
(didi@kali)-[~]
$ pwd
/home/didi
(didi@kali)-[~]
$ cd /etc
(didi@kali)-[/etc]
$ cd /etc/skel
(didi@kali)-[/etc/skel]
$ cd ..
(didi@kali)-[/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 3 13:07 alternatives
drwxr-xr-x 8 root root 4096 Sep 3 13:07 apache2
drwxr-xr-x 2 root root 4096 Sep 3 12:56 apparmor
drwxr-xr-x 9 root root 4096 Sep 3 13:07 apparmor.d
drwxr-xr-x 8 root root 4096 Sep 3 13:09 apt
drwxr-xr-x 2 root root 4096 Sep 3 13:04 arp-scan
drwxr-xr-x 3 root root 4096 Sep 3 13:06 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 3 13:07 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 3 13:06 bluetooth
drwxr-xr-x 3 root root 4096 Sep 3 12:58 ca-certificates
-rw-r--r-- 1 root root 6422 Sep 3 13:05 ca-certificates.conf
drwxr-s--- 2 root dip 4096 Sep 3 13:05 chatscripts
drwxr-xr-x 2 root root 4096 Sep 3 13:04 chromium
drwxr-xr-x 2 root root 4096 Sep 3 13:07 chromium.d
```

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



The screenshot shows a terminal window titled 'cyse270\_kali [Running] - Oracle VirtualBox'. The terminal is running a command prompt as 'didi@kali: /etc'. The command executed is 'ls [s]\*', which lists all files in the /etc directory starting with the letter 's'. The output is displayed in a table-like format with columns for permissions, owner, group, size, date, and filename. The files listed include xattr.conf, xdg, xfce4, xml, xrdp, zsh, zsh\_command\_not\_found, screenrc, shadow, smi.conf, subuid, sudo\_logsrvd.conf, searchsploit\_rc, shadow-, strongswan.conf, subuid-, sensors3.conf, shells, subgid, sudo.conf, services, smartd.conf, subgid-, sudoers, samba, gdbcommands, smb.conf, sane.d, abaton.conf, dll.d, lexmark.conf, saned.conf, agfafocus.conf, dmc.conf, lexmark\_x2600.conf, sceptra.conf, aircscan.conf, epjitsu.conf, ma1509.conf, sharp.conf, apple.conf, epson2.conf, magicolor.conf, sm3840.conf, artec.conf, epson.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, tecol.conf, canon\_dr.conf, gt68xx.conf, nec.conf, tecol2.conf, canon\_lide70.conf, hp3900.conf, net.conf, tecol3.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.

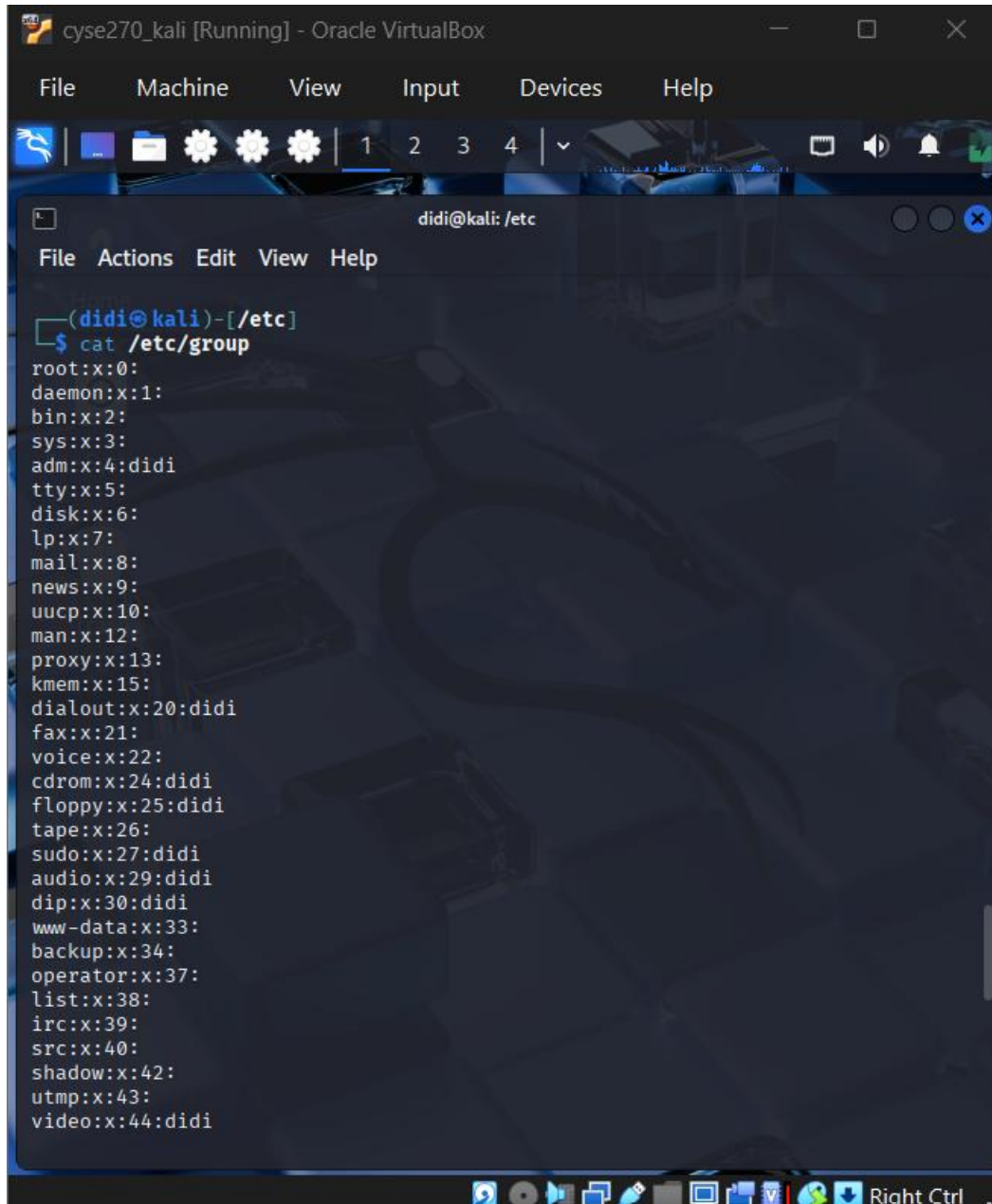
```
File Actions Edit View Help
-rw-r--r-- 1 root root 681 Feb 21 2025 xattr.conf
drwxr-xr-x 17 root root 4096 Sep 3 13:07 xdg
drwxr-xr-x 2 root root 4096 Sep 3 13:07 xfce4
drwxr-xr-x 2 root root 4096 Sep 3 13:08 xml
drwxr-xr-x 2 root root 4096 Sep 3 13:04 xrdp
drwxr-xr-x 2 root root 4096 Sep 3 13:04 zsh
-rw-r--r-- 1 root root 460 Jan 20 2023 zsh_command_not_found

(didi@kali)-[/etc]
$ ls [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:
abaton.conf      dll.d          lexmark.conf     saned.conf
agfafocus.conf   dmc.conf       lexmark_x2600.conf sceptra.conf
airscan.conf     epjitsu.conf   ma1509.conf      sharp.conf
apple.conf       epson2.conf    magicolor.conf   sm3840.conf
artec.conf       epson.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  tecol.conf
canon_dr.conf    gt68xx.conf    nec.conf         tecol2.conf
canon_lide70.conf hp3900.conf    net.conf         tecol3.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
```

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

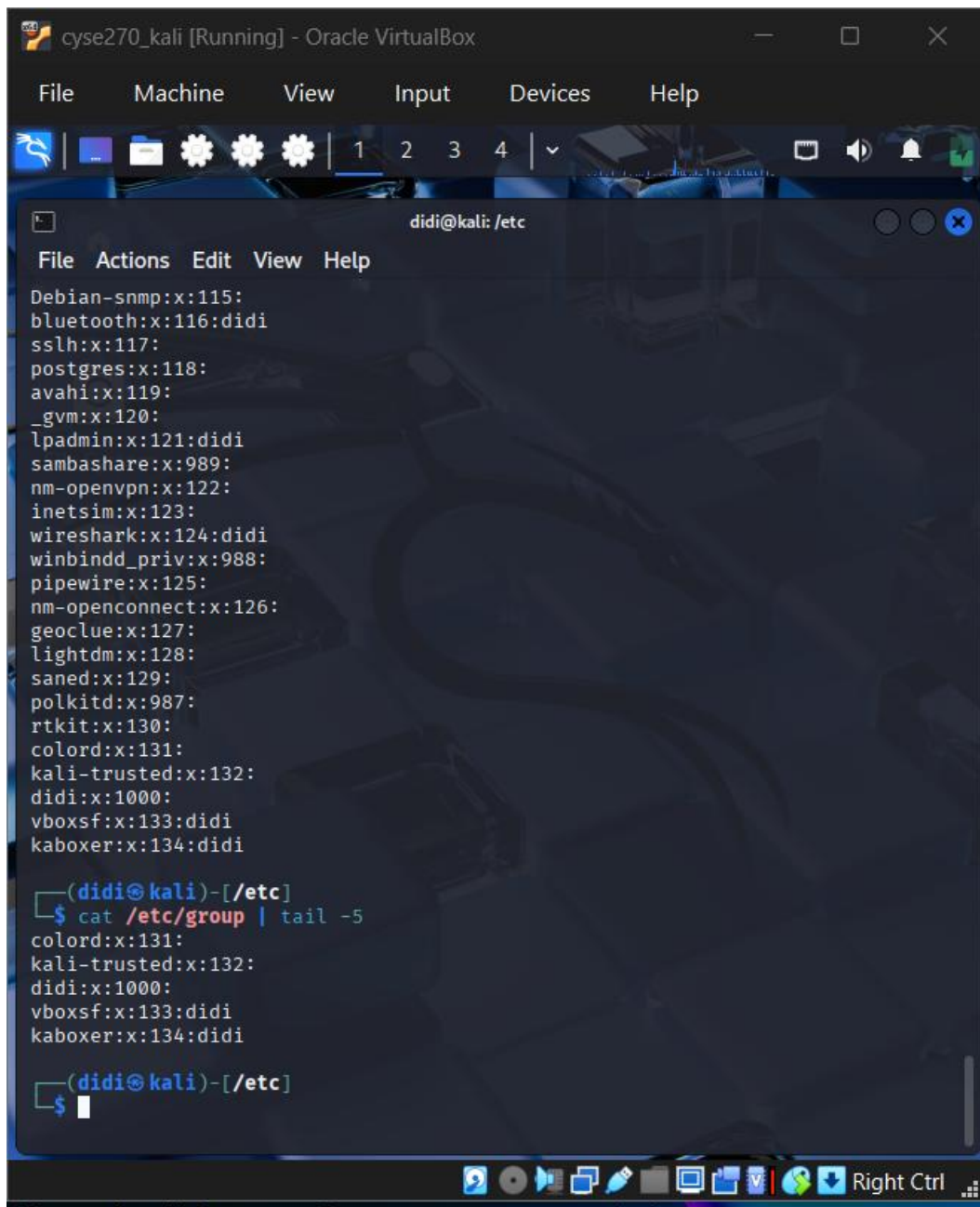


The screenshot shows a terminal window titled 'cyse270\_kali [Running] - Oracle VirtualBox'. The terminal is running a Kali Linux system. The user 'didi' is at the prompt in the directory '/etc'. The command 'cat /etc/group' has been executed, displaying the contents of the /etc/group file. The output lists various system and user groups with their respective IDs and the user 'didi' as the member for several groups.

```
(didi@kali)-[/etc]
$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:didi
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:didi
fax:x:21:
voice:x:22:
cdrom:x:24:didi
floppy:x:25:didi
tape:x:26:
sudo:x:27:didi
audio:x:29:didi
dip:x:30:didi
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
shadow:x:42:
utmp:x:43:
video:x:44:didi
```



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



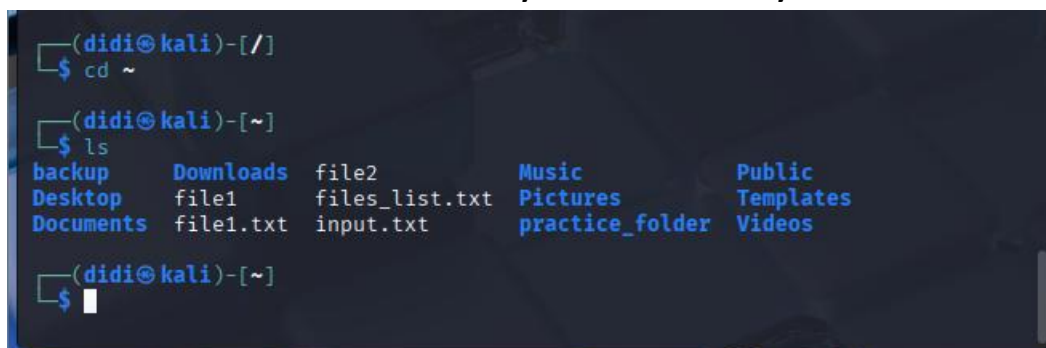
The screenshot shows a terminal window titled "cyse270\_kali [Running] - Oracle VirtualBox". The terminal displays the content of the /etc/group file, listing various system and user groups. The command `cat /etc/group | tail -5` is executed, showing the last five lines of the file.

```
didi@kali: /etc
File Actions Edit View Help
Debian-snmp:x:115:
bluetooth:x:116:didi
ssllh:x:117:
postgres:x:118:
avahi:x:119:
_gvm:x:120:
lpadmin:x:121:didi
sambashare:x:989:
nm-openvpn:x:122:
inetsim:x:123:
wireshark:x:124:didi
winbindd_priv:x:988:
pipewire:x:125:
nm-openconnect:x:126:
geoclue:x:127:
lightdm:x:128:
saned:x:129:
polkitd:x:987:
rtkit:x:130:
colord:x:131:
kali-trusted:x:132:
didi:x:1000:
vboxsf:x:133:didi
kaboxer:x:134:didi

(didi@kali)-[/etc]
$ cat /etc/group | tail -5
colord:x:131:
kali-trusted:x:132:
didi:x:1000:
vboxsf:x:133:didi
kaboxer:x:134:didi

(didi@kali)-[/etc]
$
```

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



The screenshot shows a terminal window titled "(didi@kali)-[/]". The command `cd ~` is executed, returning the user to their home directory. The subsequent `ls` command displays the contents of the home directory, including folders like backup, Desktop, Documents, Downloads, Music, Pictures, Public, Templates, and Videos, as well as files like file1, file2, files\_list.txt, and input.txt.

```
(didi@kali)-[/]
$ cd ~

(didi@kali)-[~]
$ ls
backup    Downloads  file2      Music      Public
Desktop  file1     files_list.txt Pictures    Templates
Documents file1.txt input.txt  practice_folder Videos

(didi@kali)-[~]
$
```

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

```
(didi@kali)-[~]
$ ls
backup      Downloads  file2      Music      Public
Desktop     file1      files_list.txt Pictures    Templates
Documents   file1.txt  input.txt  practice_folder Videos

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

(didi@kali)-[~]
```

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

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

(didi@kali)-[~]
$ cd /etc/passwd
cd: not a directory: /etc/passwd

(didi@kali)-[~]
$ cd data

(didi@kali)-[~/data]
$ ls
passwd

(didi@kali)-[~/data]
$
```

**14. Copy the /etc/ppp directory into the current directory**

```
(didi@kali)-[~]
$ cp -R /etc/ppp
cp: missing destination file operand after '/etc/ppp'
Try 'cp --help' for more information.

(didi@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

(didi@kali)-[~]
$
```

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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

```
(didi@kali)-[~]
$ ls
backup  Documents  file1.txt  input.txt  ppp  practice_folder  Templates
data    Downloads  file2      Music      public  practice_folder  Videos
Desktop file1      files_list.txt  Pictures  Public

(didi@kali)-[~]
$ mv ppp peers

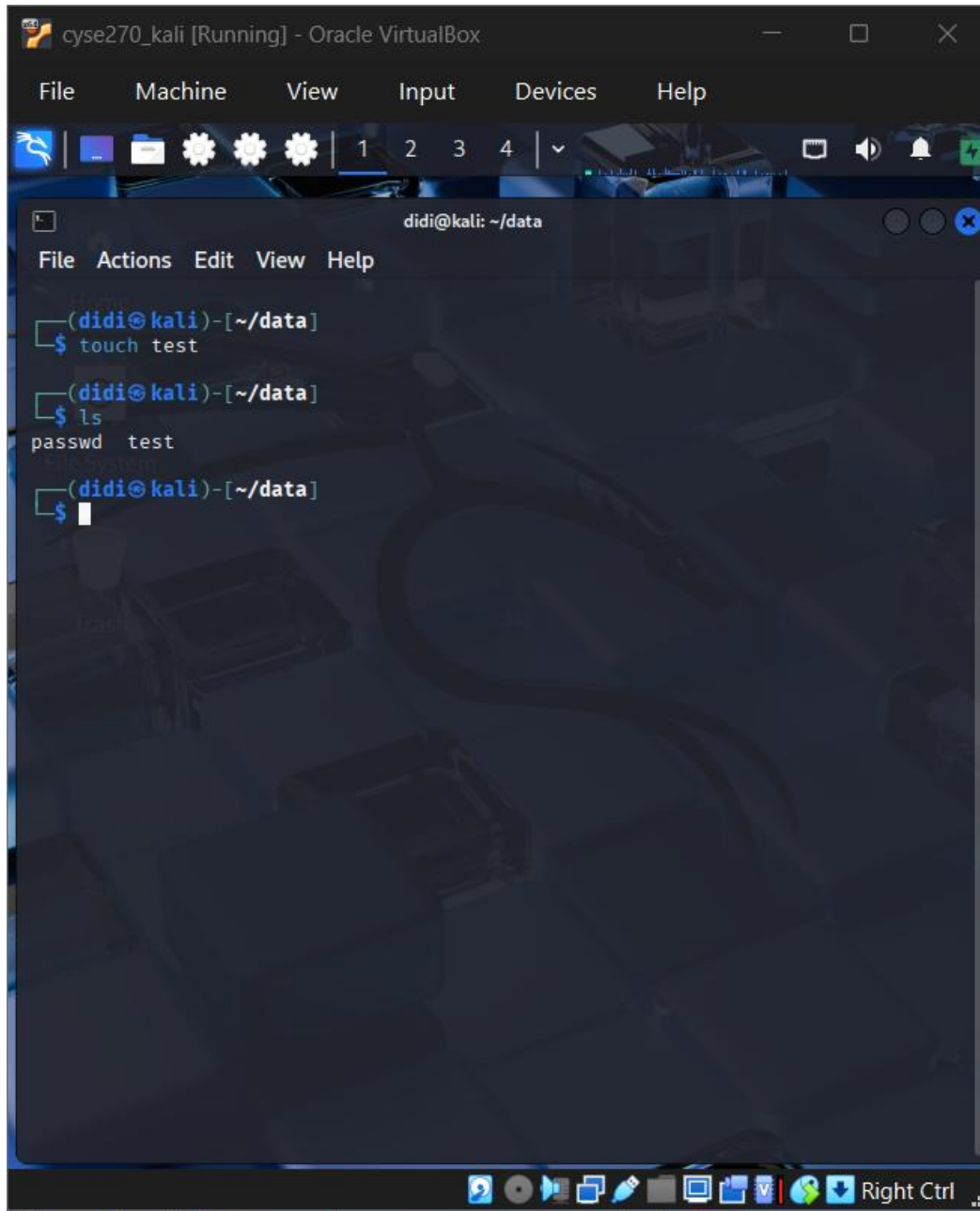
(didi@kali)-[~]
$ ls
backup  Documents  file1.txt  input.txt  Pictures  practice_folder  Templates
data    Downloads  file2      Music      peers     practice_folder  Videos
Desktop file1      files_list.txt  Pictures  Public

(didi@kali)-[~]
$
```



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



```
didi@kali: ~/data
File Actions Edit View Help

(didi@kali)-[~/data]
$ touch test

(didi@kali)-[~/data]
$ ls
passwd test
File System
(didi@kali)-[~/data]
$
```

**18. Delete the data/passwd file.**

**19. Delete the peers directory.**

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## 20. Re-execute the ls command

```
(didi@kali)-[~/data]
$ rm passwd

(didi@kali)-[~/data]
$ rm test

(didi@kali)-[~/data]
$ cd ..

(didi@kali)-[~]
$ rmdir data

(didi@kali)-[~]
$ ls
backup      Downloads  file2      Music      practice_folder  Videos
Desktop     file1     files_list.txt  peers      Public
Documents   file1.txt input.txt  Pictures   Templates
```