CT5052 Networks Operating Systems Week 7 Workshop

Step 1: Navigate to your home directory, Create the parent directories and create the subdirectories.

```
File Actions Edit View Help

(kali@kali)-[~]

$ mkdir -p W7/w7-1/{1level3,2level3,3level3}

(kali@kali)-[~]

$ mkdir -p W7/w7-2/4level3
```

Step 2: Using the tree command to display the structure like this.

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

$ tree W7

W7

W7-1

1level3

2level3

3level3

W7-2

4level3

7 directories, 0 files

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

Step 3: Change to the 1level3 directory using a relative pathname.

```
(kali® kali)-[~]
$icd:W7/w7-1/1level3

(kali® kali)-[~/W7/w7-1/1level3]

$
```

Step 4: Changing directories in directory structure from 1level3 to 2level3, from 2level3 to 4level3, from 4level3 to W7, etc. Use names of parent and child directories.

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

$ cd W7/w7-1/1level3

(kali@ kali)-[~/W7/w7-1/2level3]

$ cd ../2level3

(kali@ kali)-[~/W7/w7-1/2level3]

$ cd ../../W7-2/4level3

(kali@ kali)-[~/W7/w7-1/2level3]

$ cd ../../w7-2/4level3

(kali@ kali)-[~/W7/w7-2/4level3]

$ cd ../../w7-2/4level3

(kali@ kali)-[~/W7/w7-2]

$ cd w7-1/3level3

cd: no such file or directory: w7-1/3level3

(kali@ kali)-[~/W7/w7-2]

$ cd w7-1/3level3

(kali@ kali)-[~/W7/w7-2]

$ cd w7-1/3level3

(kali@ kali)-[~/W7/w7-1/3level3]

$ cd ~/W7

(kali@ kali)-[~/W7/w7-1/3level3]

$ (kali@ kali)-[~/W7/w7-1/3level3]

$ (kali@ kali)-[~/W7/w7-1/3level3]
```

Step 5: Change to 1level3, create a file named example.txt, enter text and save the file by pressing Ctrl+D.

```
(kali% kali)-[~]
$ cd ~/W7/w7-1/1level3

(kali% kali)-[~/W7/w7-1/1level3]
$ cat > example.txt
Hello, this is a test file.

(kali% kali)-[~/W7/w7-1/1level3]
$ ls
example.txt

(kali% kali)-[~/W7/w7-1/1level3]

$ "
```

Step 6: Copy example.txt to 1level3 with the name file1, Copy example.txt to 2level3, Copy example.txt to 3level3 with a different name.

Step 7: Verify the Files in Corresponding Directories.

Step 8: Move the File to 4level3, Verify the File in 4level3 and Verify the File is No Longer in 1level3.

Step 9: Use echo command to print the texts.

```
\( \text{kali} \text{kali} \) - \( \text{W7/w7-1/1level3} \) \( \text{secho} \text{"Hello! I can do it} \) \( \text{kali} \text{kali} \) - \( \tex
```

Step 10: Use printf command to print the texts.

Step 11: Use Is command Without options and With -a option.

```
File Actions Edit View Help

(kali@ kali)-[~/W7/w7-1/1level3]
$ ls ~
alscript Documents foldername Nepal Templates test2 W7
class Downloads Laptop Pictures test1 videos

Desktop evani Music Public test1 Videos

(kali@ kali)-[~/W7/w7-1/1level3]
$ ls ~a ~
.profile
.. Public
alscript .sudo_as_admin_successful
.bashrc.original
.cache test2
class test3
.config .vboxclient-clipboard-tty7-control.pid
.method test2
.dass test3
.config .vboxclient-display-svga-xi1-tty7-control.pid
.method bocuments .vboxclient-draganddrop-tty7-control.pid
.pownloads .vboxclient-draganddrop-tty7-control.pid
.pownloads .vboxclient-draganddrop-tty7-control.pid
.face .vboxclient-bostversion-tty7-control.pid
.face .vboxclient-seamless-tty7-service.pid
.face .vboxclient-seamless-tty7-service.pid
.face.icon .vboxclient-seamless-tty7-service.pid
.pubgg
.ICCauthority Videos
.java W7
Laptop .Xauthority
.local .xsession-errors
.mozilla .xsession-errors.old
Nusic .zsh_history
.zshrc
```

Step 12: With -d option, With -g option and With -l option.

```
File Actions Edit View Help

(alii@ali)=[Arriva-Jilevel3]

[Sis_d-

Nome/Auli

[alii@ali]=[Arriva-Jilevel3]

[sis_d-

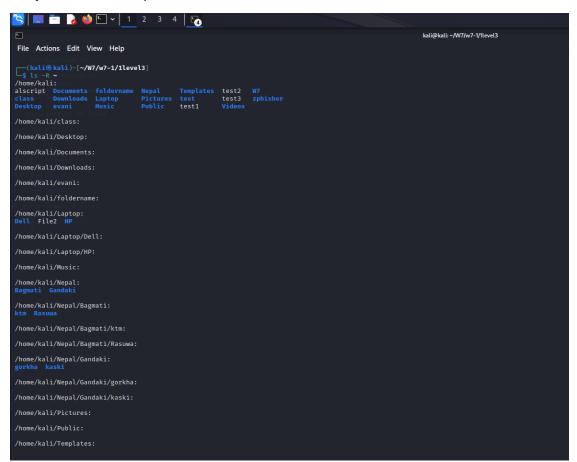
Nome/Auli

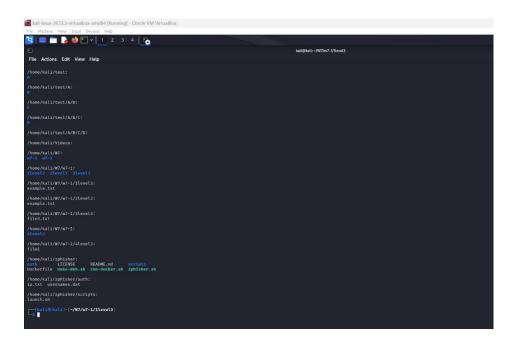
[alii@alii]=[Arriva-Jilevel3]

[calii@alii]=[Arriva-Jilevel3]

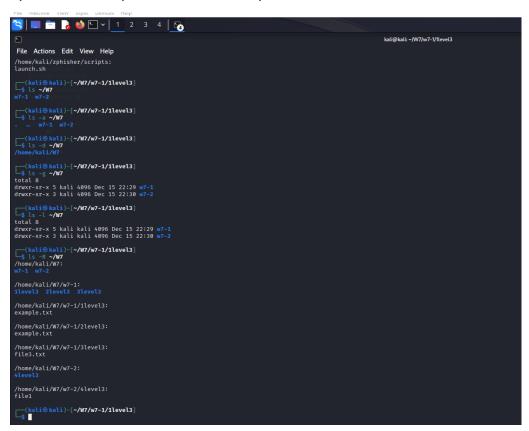
[calii@alii]=[Arriva-Jilevel3]
```

Step 13: With -R option.





Step 14: W7 Directory (~/W7) Without options, With -a option, With -d option, With -g option, With -I option and With -R option.



Step 15: Use W7-1 Directory (~/W7/w7-1) Without options, With -a option, With -d option, With -g option, With -l option and With -R option.

Step 16: Use 1level3 Directory (~/W7/w7-1/1level3) Without options, With -a option, With -d option, With -l option and With -R option.

Step 17: Change to the W7 Directory and Remove w7-2, 3level3, and 4level3 Directories.

Step 18: Change to w7-1 Directory

```
kali@kali: ~/W7/w7-1

File Actions Edit View Help

(kali®kali)-[~]

$ cd ~/W7/w7-1
```

Step 19: Display Access Permissions for file1 in 1level3.

```
(kali@ kali)-[~/W7/w7-1]
$\frac{1}{2} \text{ls -l \( \sigma/W7/w7-1/1\) level3/file1
-rw-r--r-- 1 kali kali 0 Dec 19 08:30 /home/kali/W7/w7-1/1\) level3/file1
```

Step 20: Remove All Access Permissions for file1

```
(kali@ kali)-[~/W7/w7-1]
$ chmod 000 ~/W7/w7-1/1level3/file1
```

Step 21: Display Access Permissions for file1 Again

```
(kali@ kali)-[~/W7/w7-1]

$\frac{1}{2} \text{ls -l \( \sigma \) \( \si
```

Step 22: Try to Read file1 Using a Utility (e.g., cat)

```
(kali@ kali)-[~/W7/w7-1]

$ cat ~/W7/w7-1/1level3/file1
cat: /home/kali/W7/w7-1/1level3/file1: Permission denied
```

Step 23: Try to Write to file1 Using a Utility (e.g., cat with >>)

Step 24: Add Read and Write Access Permissions for Yourself

```
(kali⊕ kali)-[~/W7/w7-1]
$ chmod u+rw ~/W7/w7-1/1level3/file1
```

Step 25: Display Access Permissions for file1 Again

Step 26: Try to Read file1 Using a Utility

```
(kali@kali)-[~/W7/w7-1]

$ cat ~/W7/w7-1/1level3/file1
```

Step 27: Try to Write to file1 Using a Utility

```
(kali@kali)-[~/W7/w7-1]
$ echo "test" >> ~/W7/w7-1/1level3/file1
```

Step 28: Display Access Permissions for 1level3

```
(kali® kali)-[~/W7/w7-1]
$\frac{1}{2} \text{ls -ld \( \sigma \sqrt{W7/w7-1/1level3} \)

drwxr-xr-x 2 kali kali 4096 Dec 19 08:30 \( \sqrt{home/kali/W7/w7-1/1level3} \)
```

Step 29: Remove All Access Permissions for 1level3

```
(kali® kali)-[~/W7/w7-1]
$ chmod 000 ~/W7/w7-1/1level3
```

Step 30: Display Access Permissions for 1level3 Again

```
(kali⊗kali)-[~/W7/w7-1]
$\frac{1}{5} \ls -ld \frac{1}{2} \ls -ld
```

Step 31: Display Access Permissions for 1level3 Again

```
(kali@ kali)-[~/W7/w7-1]
$ cat ~/W7/w7-1/1level3/file1
cat: /home/kali/W7/w7-1/1level3/file1: Permission denied
```

Step 32: Try to Put a File into 1level3

```
(kali@ kali)-[~/W7/w7-1]
$ touch ~/W7/w7-1/1level3/newfile

touch: cannot touch '/home/kali/W7/w7-1/1level3/newfile': Permission denied
```

Step 33: Try to Search in 1level3

```
(kali@kali)-[~/W7/w7-1]
$ ls ~/W7/w7-1/1level3

ls: cannot open directory '/home/kali/W7/w7-1/1level3': Permission denied
```

Evani Raut

Step 34: Add Read, Write, and Execute Permissions for Yourself

```
(kali@ kali)-[~/W7/w7-1]
$ chmod u+rwx ~/W7/w7-1/1level3
```

Step 35: Display Access Permissions for 1level3 Again

Step 36: Try to Read a File from 1level3

```
(kali⊛ kali)-[~/W7/w7-1]

$ cat ~/W7/w7-1/1level3/file1

test
```

Step 37: Try to Put a File into 1level3

```
(kali⊗ kali)-[~/W7/w7-1]
$ touch ~/W7/w7-1/1level3/newfile
```

Step 38: Try to Search in 1level3

```
(kali@ kali)-[~/W7/w7-1]
$ ls ~/W7/w7-1/1level3
example.txt file1 newfile
```