

ASSIGNMENT-4

Basic Linux Commands

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1.wc

wc stands for word count.

- Used for counting purpose.
- It is used to find out number of lines, word count, byte and characters count in the files specified in the file arguments.

```
jeena@jeena-VirtualBox:~$ cd Networklab
jeena@jeena-VirtualBox:~/Networklab$ wc
JEENA
meenu
jeethu^C
jeena@jeena-VirtualBox:~/Networklab$ cat >mk
jeenamathew
^C
jeena@jeena-VirtualBox:~/Networklab$ wc -c mk
12 mk
jeena@jeena-VirtualBox:~/Networklab$
```

2.tar

- The Linux 'tar' stands for tape archive, is used to create Archive and extract the Archive files
- Linux tar command to create compressed or uncompressed Archive files

```
jeena@jeena-VirtualBox:~/Networklab$ cat > Archive1.tar
the world famous
^C
jeena@jeena-VirtualBox:~/Networklab$ ls Archive1.tar
Archive1.tar
jeena@jeena-VirtualBox:~/Networklab$
```

3.expr

- The expr command evaluates a given expression and displays its corresponding output. It is used for:
- Basic operations like addition, subtraction, multiplication, division, and modulus on integers.

- Evaluating regular expressions, string operations like substring, length of strings etc.

```
jeena@jeena-VirtualBox:~/Networklab$ expr 10 + 18
28
jeena@jeena-VirtualBox:~/Networklab$
```

4. Redirections & Piping 7

- A pipe is a form of redirection to send the output of one command/program/process to another command/program/process for further processing.
- Pipe is used to combine two or more commands, the output of one command acts as input to another command, and this command's output may act as input to the next command and so on.

```
jeena@jeena-VirtualBox:~/Networklab$ ls -l | wc -l
5
jeena@jeena-VirtualBox:~/Networklab$
```

5.ssh-keygen

Ssh-keygen command to generate a public/private authentication

```
jeena@jeena-VirtualBox:~/Networklab$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/jeena/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/jeena/.ssh/id_rsa
Your public key has been saved in /home/jeena/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:Im96ErTzuXPRhtwBqY5gftKPJy5i8/J0YF3stj+0VvE jeena@jeena-VirtualBox
The key's randomart image is:
+----[RSA 3072]-----+
|          .          |
|       . o           |
|      + .           |
|   o o +   . .       |
| o *. = . + S + o .   |
| + 0oo. = . + E      |
| + Boo.o             |
|. +o =oB. +.         |
|.. =o=o=.o.          |
+----[SHA256]-----+
jeena@jeena-VirtualBox:~/Networklab$
```