



WORKSHEET FOR OPERATING SYSTEM

EXPERIMENT 1.2

Student Name: Vamsiteja Mogilipalem UID: 21BCS10507

Branch: CSE AIML Section/Group: 21AML-1(A)

Semester: 3RD Date of Performance: 29TH AUG, 22

Subject Name: OPERATING SYSTEM Subject Code: 21CSH-242

1. AIM/OVERVIEW OF THE EXPERIMENT:

To Learn the Basic Linux Commands.

2. SOFTWARE REQUIREMENT:

- VMWARE OR ORACLE VIRTUAL BOX
- UBUNTU LINUX OS
- ❖ 32-bit intel Pentium or compatible processor running at 2GH.
- ❖ 512 GB ram
- ❖ Graphics card: NVDIA Quadro FX 1100, V5100.

3. STEPS FOR EXPERIMENT:

- ❖ Install the ubuntu and run the ubuntu operating system in oracle virtual box.
- Open the terminal in the ubuntu, run and implement the basic commands of the linux.







4. **COMMANDS**:

COMMANDS	DESCRIPTION		
date	Show the current date and time		
cal	Show this month's calendar		
Is -I	For showing the list of files and access of the files given to user		
ls -al	Formatted listing with hidden files		
Is	Directory listing		
cd ~	For moving back from one directory in which we were currently in		
cd – or cd	Shows in which directory we are currently in		
cat>file	Places the standard input into the file		
vi file	For showing the contents of inside the file		
wo or ctrl+zz	For saving and quitting the file that is opened		
touch file	Shows the file without opening it		
cat file	Displays the content of the file		
cp file1 file2	Copy the contents of file1 to file2		
mv file1 file2	Rename or move file1 to file2, if file2 is an existing directory		
rm file	Deleting the file		
mkdir dir	Creating a directory dir		
rm -r dir	Deleting the directory		
cd dir	Change directory to dir		
pwd	Show current working directory		
echo	Used to display line of text/string that are passed as an argument		
sudo	commonly used to run a command as root		
su	While you're logged in to the terminal shell with one user, you		
	might have the need to switch to another user.		







5. OUTPUTS:

date: - It is used to display the current date and the time

```
/usr/bin/bash

/usr/bin/bash 80x24

root@kali:~# date

Sun Aug 28 11:07:26 PM CDT 2022

root@kali:~# □
```

cal:- displays a calendar of the specified year or month

```
/usr/bin/bash

/usr/bin/bash 80x24

root@kali:~# cal
August 2022

Su Mo Tu We Th Fr Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

root@kali:~# □
```





Is -I:

- It used for displaying the information of non-hidden files and directions and
- Is-l is list in long Format

```
•
                                                                   /usr/bin/bash
drwxr-xr-x
                                                     Aug 27
Aug 27
Aug 27
                                                                   04:03 aesthetic
                                root
                                                                   03:51 akashconf2
                      root
                                root
                                          88636 Jul
579 Jul
                                                     Jul
Jul
                                                                   12:42 attack-01.kismet.csv
12:42 attack-01.kismet.netxml
                                             3785
                                            4096
                   2 root
2 root
1 root
                                                     Feb 21 2022 Documents
May 16 20:09 Downloads
drwxr-xr-x
drwxr-xr-x
                                                             19 05:12
                                                     Aug 19 03:12 literype
Aug 20 03:24 hehh.exe
Aug 20 13:29 hi.exe
Aug 20 13:27 life.exe
Feb 21 2022 Music
                   1 root
1 root
                                           73802
                                 root
                                                             21 2022
19 05:19
 rw-r--r--
                                                             28 23:09 Pictures
21 2022 Public
21 2022 Templates
10 07:09 tes-01.cap
                                            4096
rwxr-xr-x
drwxr-xr-x 2 root
drwxr-xr-x 2 root
                                            4096
```

Is -al:

It Displays all the files and subdirectories in the current directory, including hidden

```
| Content | Con
```







Is:- It shows the files and directories that are not hidden

<u>cd -:-</u> cd command in linux known as change directory command. It is used to change current working directory

```
/usr/bin/bash

☐ ☐ ②

/usr/bin/bash 80x24

root@kali:~# cd -
/root
root@kali:~# [
```



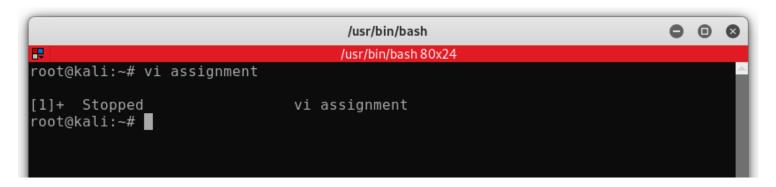




<u>cat>file:</u> command is one of the most frequently used commands in Linux/Unix-like operating systems. **cat** command allows us to create single or multiple files, view content of a file, concatenate files and redirect output in terminal or files



<u>vi file:</u> Using vi editor, we can edit an existing file or create a new file from scratch. we can also use this editor to just read a text file











<u>cat file:-</u> To create a new file, use the cat command followed by the redirection operator (>) and the name of the file you want to create

```
/usr/bin/bash

☐ ☐ ☑ ☑

/usr/bin/bash 80x24

root@kali:~# cat akashconf
akash kapoor
root@kali:~# [
```

mv file1 file2: mv commands are used to move/rename the files

```
/usr/bin/bash

☐ ☐ ②

☐ Usr/bin/bash 80x24

root@kali:~# mv assignment akashconf2

root@kali:~# vi akashconf2

[5]+ Stopped vi akashconf2

root@kali:~# [
```







cp file1 file2: cp file1 file2 is the command which makes a copy of file1 in the current working directory and calls it file2.

```
/usr/bin/bash

/usr/bin/bash 80x24

root@kali:~# cp assignment akashconf
root@kali:~# cat akashconf

Akash Kapoor
root@kali:~# □
```

rm file: To delete the file named myfile, type the following: rm myfile.

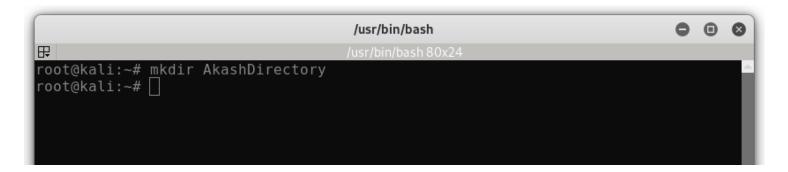
```
/usr/bin/bash
                                                                                                                   root@kali:~# rm akashconf
root@kali:~# ls -l
total 836
drwxr-xr-x 2 root root
                                     4096 Aug 27 04:03 aesthetic
                                       13 Aug 28 23:20 akashconf2
                   root root
                                                    7 12:42 attack-01.cap
7 12:42 attack-01.csv
7 12:42 attack-01.kismet.csv
7 12:42 attack-01.kismet.netxml
                1 root root 88636 Jul
                                       579 Jul
593 Jul
                   root root
                                     3785
                   root
                           root
                 1 root root 23931 Jul
                                                    7 12:42 attack-01.log.csv
                                                    8 14:33 Desktop
                 2 root root
                                     4096 Mar
                                     4096 Feb 21 2022 Documents
4096 May 16 20:09 Downloads
                   root root 0 Aug 19 05:12 filetype
root root 73802 Aug 20 03:24 hehh.exe
                                                                  filetype.exe
                1 root root 73802 Aug 20 13:29 hi.exe
1 root root 0 Aug 28 23:21 home
1 root root 0 Aug 20 13:27 life.exe
                                   4096 Feb 21 2022 Music
73802 Aug 19 05:19 page.exe
4096 Aug 28 23:24 Pictures
4096 Feb 21 2022 Public
4096 Feb 21 2022 Templates
                   root root
                 1 root root
                                                        2022 Public
2022 Templates
drwxr-xr-x 2 root root
drwxr-xr-x 2 root root
                1 root root 10811 Jul 10 07:09 tes-01.cap
```







mkdir file:- mkdir command in Linux allows the user to create directories (also referred to as folders in some operating systems).



cd dir: The cd ("change directory") command is used to change the current working directory in Linux and other Unix-like operating systems.



cd ~: cd command in linux known as change directory command.

```
/usr/bin/bash

☐ ☐ ☑

/usr/bin/bash 80x24

root@kali:~/AkashDirectory# cd ~

root@kali:~# ☐
```







• **rm -r dir:** To delete all the files in the mydir directory, one by one, type the following: rm -i mydir/*

After each file name displays, type y and press Enter to delete the file. Or to keep the file, just press Enter.

```
/usr/bin/bash
                                                                            root@kali:~# rm -r AkashDirectory
aesthetic
                          Pictures
                                                   test-01.log.csv
                          Templates
                                                   test1-01.kismet.netxml
                                                   test1-01.log.csv
Desktop
                          tes-01.log.csv
directory1
Documents
Downloads
                                                   test2-01.log.csv
filetype.exe
                          test0-01.kismet.csv
hehh.exe
                          test0-01.log.csv
home
                                                   Videos
life.exe
                                                   virus.exe
Music
root@kali:~# □
```

<u>pwd:</u> The pwd command writes to standard output the full path name of your current directory (from the root directory).

```
/usr/bin/bash

☐ ☐ ②

/usr/bin/bash 80x24

root@kali:~# pwd
/root
root@kali:~# ☐
```







<u>echo</u>: echo command in linux is used to display line of text/string that are passed as an argument .

```
/usr/bin/bash

/usr/bin/bash 80x24

root@kali:~# echo

root@kali:~# ls -l
total 840

drwxr-xr-x 2 root root 4096 Aug 27 04:03 aesthetic
-rw-r--r-- 1 root root 13 Aug 28 23:20 akashconf2
-rw-r--r-- 1 root root 579 Jul 7 12:42 attack-01.cap
-rw-r--r-- 1 root root 593 Jul 7 12:42 attack-01.csv
-rw-r--r-- 1 root root 3785 Jul 7 12:42 attack-01.kismet.csv
-rw-r--r-- 1 root root 3785 Jul 7 12:42 attack-01.kismet.netxml
-rw-r--r- 1 root root 23931 Jul 7 12:42 attack-01.log.csv
drwxr-xr-x 2 root root 4096 Mar 8 14:33 Desktop
drwxr-xr-x 2 root root 4096 Mar 8 14:33 Desktop
drwxr-xr-x 2 root root 4096 May 28 23:33 directory1
drwxr-xr-x 2 root root 4096 May 16 20:09 Downloads
-rw-r--r-- 1 root root 73802 Aug 20 03:24 hehh.exe
-rw-r--r-- 1 root root 73802 Aug 20 03:24 hehh.exe
-rw-r--r-- 1 root root 73802 Aug 20 13:29 hi.exe
-rw-r--r-- 1 root root 0 Aug 28 23:31 life.exe
drwxr-xr-x 2 root root 4096 Feb 21 2022 Music
-rw-r--r-- 1 root root 73802 Aug 19 05:19 page.exe
drwxr-xr-x 2 root root 4096 Feb 21 2022 Public
```

su: The su command lets you switch the current user to any other user

```
[aaronkilik@tecmint ~]$ su tecmint
Password:
[tecmint@tecmint aaronkilik]$
[tecmint@tecmint aaronkilik]$ ls
ls: cannot open directory .: Permission denied
[tecmint@tecmint aaronkilik]$
[tecmint@tecmint aaronkilik]$ cd
[tecmint@tecmint ~]$
[tecmint@tecmint ~]$ ls
bin lost
[tecmint@tecmint ~]$
```







sudo:



6.Learning outcomes (What I have learnt):

- 1. Understand, learn and implement the basic commands in the Linux.
- 2. Understand and Apply the commands in the daily use of Linux.
- 3. Learned the different distributions of Linux and the open source
- 4.Learned the Linux Commands to Manage the file system
- 5. Learned the Structure of the Linux Operating the System.
- 6.Learned the way of using the commands and get the output of that particular commands.







7. Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

