APARNA E GOPALAN S4CS ROLL NO-65 FOSS LAB

- 1.Getting started with linux basic commands for directory oerations, displaying directory structure in tree format etc.
- 2.Linux commands for operations such as redirection, pipes, filters, job control, changing ownership/permissions of files/linksdirectory.
- 3. Advanced linux commands curl, wget, ftp, ssh and grep

Command 1:

Purpose:Making a directory Usage:mkdir<directory name> Sample i/p and o/p:s1765@linux-server:~\$ mkdir template s1765@linux-server:~\$ Is template

Command 2:

Purpose:for getting in to the directory Usage:cd <directory name> sample ip and o/p: s1765@linux-server:~\$ cd template s1765@linux-server:~/template\$ Is

Command 3:

Purpose:getting back from the directory Usage:cd.. Sample Ip and o/p:s1765@linux-server:~/template\$ cd .. s1765@linux-server:~\$ Is

Command 4:

Purpose:to create a file Usage:nano<filename> Sample I/p and o/p:s1765@linux-server:~\$ nano hello s1765@linux-server:~\$ nano file1

Command 5:

Purpose:Displaying all files in the directory Usage:Is<filename(optional)> Sample ip and o/p:s1765@linux-server:~/s4cs65\$ Is file1

Command 6:

PurPose:It displays all the commands done previously Usage:history
Samle i/p and o/p:s1765@linux-server:~/s4cs65\$ history
1 mkdir template
2 cd template
3 cd..
4 nano hello
5 ls

6 history

Command 7:

Purpose:To create a file Usage:touch<filename>

Sample i/p and o/p:s1765@linux-server:~/s4cs65\$ touch appu s1765@linux-server:~/s4cs65\$ Is appu

Command 8:

Purpose:To dislay the contents in the file

Usage:cat <filename>

Sample i/p and o/p:s1765@linux-server:~\$ nano

file1 s1765@linux-server:~\$ cat file1 hhh

kkk

Ш

uuu

000

eee

tt

aa

CC

Command 9:

Purpose:To display first three lines from the top Usage:s1765@linux-server:~\$ head hello -n 3

aaa bbb ccc

Command 10:

Purpose:remove the directory Usage:rm -r<directory name>

Sample i//p and o/p:s1765@linux-server:~/s4cs65\$ rm -r

Template s1765@linux-server:~\$ cd Template -bash: cd: Template: No such file or directory

Command 11:

Purpose:move a file to a directory Usage:mv filename <directory name> Sample i/p and o/p:s1765@linux-server:~\$ mv file1 s4cs65 s1765@linux-server:~\$ cd s4cs65 s1765@linux-server:~/s4cs65\$ Is file1

Command 12:

Purpose:to check the string in the file Usage:grep a filename Samle i/p and o/p:s1765@linux-server:~/s4cs65\$ grep a file1 aa

```
Command 13:
Purpose :to check the string in the file
Usage:grep -i "a" filename
sample i/p and o/p:s1765@linux-server:~/s4cs65$ grep -i "a" file1
aa
adgfs
fgat
kja
kasw
Command 14:
Purpose:to print the first 10 lines
Usage:head filename
Samle i/p and o/p:s1765@linux-server:~/s4cs65$ head file1
hhh
kkk
Ш
uuu
000
eee
tt
aa
CC
adafs
Command 15:
purpose:to print the last three lines
Usage:tail file n 3
sample i/p and o/p:
s1765@linux-server:~/s4cs65$ tail file1 -n 3
fgat
kja
kasw
Command 16:
purpose:to remove a file
Usage:rm filename
sample i/p and o/p:
s1765@linux-server:~/s4cs65$ rm file3
s1765@linux-server:~/s4cs65$ ls
file1 file2
Command 17:
purpose: to print the string starting with a
Usage:cat file1 |grep ^a
Sample i/p and o/ps1765@linux-server:~/s4cs65$ cat file1 |grep ^a
adgfs
```

Command 18: purpose:to prir

purpose:to print the starting with c usage:cat file 1|grep c\$

sample i/p and o/p:

s1765@linux-server:~/s4cs65\$ cat file1 |grep c\$ cc

Command 19:

purpose:to count the no. Of a in the file usage:cat file1 |grep^a |wc -l sample i/p and o/p:s1765@linux-server:~/s4cs65\$ cat file1 |grep ^a | wc -l 2

Command 20:

Purpose:to get the complete details

Usage:uname -a

sample i/p and o/p:

s1765@linux-server:~/s4cs65\$ uname -a

Linux linux-server 3.13.0-32-generic #57-Ubuntu SMP Tue Jul 15 03:51:08 UTC 2014 x86_64 x86_64 x86_64 GNU/Linux

Command 21:

Purpose:to get the detail

Usage:uname

Sample i/p and o/p:s1765@linux-server:~/s4cs65\$ uname

Linux

Command 22:

Purpose:to sort the file in alphabetical order

Usage:sort filename

s1765@linux-server:~/s4cs65\$ sort file10

abhi

achu

anju

aparna

chinju

preetha

remani

sreenu

vyshaki

Command 23:

Purpose:to get the string ending with u

Usage:grep -i "u" file10

sample i/p and o/p:

s1765@linux-server:~/s4cs65\$ grep -i "u" file10

chinju

anju

achu

sreenu

Command 24:

Purpose :Counting word,lines,characters

Usage:wc {-I,-c,-w} filename

Sample I/p and Output :ubnutu@ubnutu-VPCEH26EN:~\$ wc -I file 3 file

Command 25:

Purpose :to sort file alphabetically

Usage :sort {-n} {-kcolumn number} filename

Sample I/p and o/p :ubnutu@ubnutu-VPCEH26EN:~\$ cat file1

sahil anju miya riya

ubnutu@ubnutu-VPCEH26EN:~\$ sort file1

anju miya riya sahil

Command 26:

Purpose :sed can perform editing functions in

stream Usage :sed expression

Sample I/p and O/p:ubnutu@ubnutu-VPCEH26EN:~\$ echo appu123 | sed

's//llu/' llu123

Command 27:

Purpose :To list all background jobs

Usage:jobs

Sample I/p and Output :ubnutu@ubnutu-VPCEH26EN:~\$ jobs

[1]+ Stopped tr w q

Command 28:

Purpose : giving current foreground job to

background Usage :CTRL + ZK

[3]+ Stopped find / -type d -name "*.c" ubnutu@ubnutu-VPCEH26EN:~\$ bg [3]+ find / -type d -name "*.c" &

Command 29:

Purpose: locating the file Usage: locate filename

Sample I/p and O/p:ubnutu@ubnutu-VPCEH26EN:~\$ locate vivo

/home/ubnutu/.local/share/Trash/files/vivo

/home/ubnutu/.local/share/Trash/files/vivo/Desktop /home/ubnutu/.local/share/Trash/files/vivo/dd /home/ubnutu/.local/share/Trash/files/vivo/deen /home/ubnutu/.local/share/Trash/info/vivo.trashinfo

/usr/share/mime/video/vnd.Uvivo.xml

Command 30:

Purpose: Killing a specific background job

Usage :killing %jobnumber

Sample I/p and O/p :ubnutu@ubnutu-VPCEH26EN:~\$ kill

%9 ubnutu@ubnutu-VPCEH26EN:~\$ jobs

[1]+ Stopped tr w q [2]- Terminated tr w q

Command 31

Purpose : Downloading the files.

Usage :wget url

Sample I/p and O/p:ubnutu@ubnutu-VPCEH26EN:~/fol\$ wget https://ssl.gstatic.com/gb/images/v1_051523630.png

--2019-02-08 14:11:20-- https://ssl.gstatic.com/gb/images/v1_051523630.png

Resolving ssl.gstatic.com (ssl.gstatic.com)... 2404:6800:4007:80c::2003,

172.217.163.67 Connecting to ssl.gstatic.com

(ssl.gstatic.com)|2404:6800:4007:80c::2003|:443... connected. HTTP request sent,

awaiting response... 200 OK Length: 63333 (62K) [image/png]

Saving to: 'v1 051523630.png'

v1_051523630.png

100%

61.85K 251KB/s in 0.2s

2019-02-08 14:11:21 (251 KB/s) - 'v1 051523630.png' saved [63333/63333]

ubnutu@ubnutu-VPCEH26EN:~/fol\$ Is v1_051523630.png

Command 32:

Purpose:open an ftp connection to a remote

system Usage :ftp <ip address>

Sample I/p and O/p :ubnutu@ubnutu-VPCEH26EN:~\$ ftp 137.97.18.93

ftp: connect: Connection timed out

 $ftp > ^Z$

[4]+ Stopped ftp 137.97.18.93

Command 33:

Purpose :logging into the remote machine, transferring files.

Usage :ssh <hostname>

Sample I/p and O/p :ubnutu@ubnutu-VPCEH26EN:~\$ ssh ubnutu-VPCEH26EN

ssh: connect to host ubnutu-vpceh26en port 22: Connection refused

Command 34:

Purpose: To search string or pattern Usage: grep {-i,w} <string> <filename>

Sample I/p and O/p :s1765@linux-server:~\$ nano

templates s1765@linux-server:~\$ nano apu s1765@linux-server:~\$

grep anju test3 Anju

s1765@linux-server:~\$ grep -i anju test3

Anju s1765@linux-server:~\$ grep -w anjutest3 s1765@linux-server:~\$ grep -w anjutest3 anju

Command 35:

Purpose: Transferring the datas from the url

Usage :curl url

Sample I/p and O/p :ubnutu@ubnutu-VPCEH26EN:~\$ curl

www.skyfilabs.com <html>

<head><title>301 Moved Permanently</title></head>

<body bgcolor="white">

<center><h1>301 Moved Permanently</h1></center>

</body>

Command 36:

Purpose:To output commands result to file (append)

Usage :Linux-command >> filename

Sample I/p and O/p :ubnutu@ubnutu-VPCEH26EN:~\$ Is ./there >>

file.txt ubnutu@ubnutu-VPCEH26EN:~\$ cat

file.txt Hai oppo

Command 37:

Purpose: Using pipe more than two commands can be connected Usage: command 1 | command 2 | command 3 Sample I/p and O/p:To count words starting with some letter

s1765@linux-server:~/anna\$ cat test | grep ^H

|wc -l 1

To display word starting with some letter

s1765@linux-server:~/anna\$ cat test | grep ^H

Hello Good Morning

Command 38:

Purpose:logging into the remote machine, transferring files between the two machines, and for executing commands on the remote machine.

Usage:ssh <hostname>

Sample I/p and O/p:ubnutu@ubnutu-VPCEH26EN:~\$ ssh ubnutu-aparna

ssh: connect to host ubnutu-aparna port 22: Connection refused