ASSIGNMENT 1

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

SONU P

ROLL.NO: 69

S4_CSE

DATE:

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1. mkdir <dir_name>

purpose of command : To make a directory

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop\$ mkdir s469 user@user-Veriton-Series:~/Desktop\$ ls s469

2. cd <dirname>

purpose of command : To goto direcoty

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop\$ cd s469

3. cd..

purpose of command : Move to parent dir

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ cd .. user@user-Veriton-Series:~/Desktop\$

4. ls <filename(optional)>

purpose of command : To list

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop\$ ls s469

5. history

purpose of command : To display commands that previously done

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop\$ history 1 mkdir s469

2 ls

3 cd s469

4 cd ..

5 ls

6 history

6. touch <filename>

purpose of command : To create file without entering to it

Sample i/p and o/

user@user-Veriton-Series:~/Desktop/s469\$ touch file1 user@user-Veriton-Series:~/Desktop/s469\$ ls file1

7. nano <filename>

purpose of command : To create file by saving it

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ nano file1

8. cat <filename>

purpose of command : To display contents in a file

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ cat file1 arun sinu thanu surya arya ananya Anuja appu

9. pwd <name(opt)>

purpose of command : To display path

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ pwd /home/user/Desktop/s469

10. copy <file1> <new file>
purpose of command : To copy

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ touch file2 user@user-Veriton-Series:~/Desktop/s469\$ ls

file1 file2

user@user-Veriton-Series:~/Desktop/s469\$ cp file1 file2

user@user-Veriton-Series:~/Desktop/s469\$ cat file2

arun

sinu thanu surya arya ananya Anuja appu

11. sort <filename>
purpose of command : To sort

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ sort file1 ananya Anuja appu arun arya sinu surya thanu

12. cd ~ purpose of command : Move to users home dir *Sample i/p and o/p*

user@user-Veriton-Series:~/Desktop/s469\$ cd ~ user@user-Veriton-Series:~\$ pwd /home/user

13. cp -i <file><file to be overwrite> purpose of command : To overwrite <u>Sample i/p and o/p</u>

user@user-Veriton-Series:~/Desktop/s469\$ touch file3 user@user-Veriton-Series:~/Desktop/s469\$ nano file3 user@user-Veriton-Series:~/Desktop/s469\$ cat file3 its from file3...,going to overwritten file2 user@user-Veriton-Series:~/Desktop/s469\$ cp -i file3 file2 cp: overwrite 'file2'? yes user@user-Veriton-Series:~/Desktop/s469\$ cat file2 its from file3...,going to overwritten file2

14. locate string

purpose of command : To list whose name contain the string

Sample i/p and o/

user@user-Veriton-Series:~/Desktop/s469\$ locate whereis /usr/bin/whereis

/usr/share/man/man1/whereis.1.gz

15. mv <myfile> <your file>

purpose of command : To move

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop\$ ls c dir java Let s469 SA user@user-Veriton-Series:~/Desktop\$ mv SA c user@user-Veriton-Series:~/Desktop\$ ls c dir java Let s469

16. rm <directory>

purpose of command : To remove directory

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop\$ rmdir dir user@user-Veriton-Series:~/Desktop\$ ls c java Let s469

17. rm <filename>

purpose of command : To remove file

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ ls file1 file2 file3 user@user-Veriton-Series:~/Desktop/s469\$ rm file3 user@user-Veriton-Series:~/Desktop/s469\$ ls file1 file2

18. head <filename> -n m

purpose of command : To display first m lines

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ head file1 -n 3 arun sinu thanu

19. head <filename> -n -m

purpose of command : To display all lines except last m lines

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ head file1 -n -3 arun sinu thanu surya arya

20. tail <filename> -n m

purpose of command : To display last m lines

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ tail file1 -n 2 Anuja appu

21. man <search>

purpose of command : To get manual

Sample i/p and o/p

NANO(1) General Commands Manual NANO(1)

NAME

nano - Nano's ANOther editor, an enhanced free Pico clone

SYNOPSIS

nano [OPTIONS] [[+LINE,COLUMN] FILE]...

DESCRIPTION

This manual page briefly documents the nano command.

nano is a small, free and friendly editor which aims to replace Pico, the default editor included in the non-free Pine package. Rather than just copying Pico's look and feel, nano also implements some missing (or disabled by default) features in Pico, such as "search and replace" and "go to line and column number".

OPTIONS

+LINE,COLUMN

Places cursor at line number LINE and column number COLUMN (at least one of which must be specified) on startup, instead of the default of line 1, column 1.

-? Same as -h (--help).

-A (--smarthome)

Make the Home key smarter. When Home is pressed anywhere but at the very beginning of non-whitespace characters on a line, the cursor will jump to that beginning (either forwards or backwards). If the cursor is already at that position, it will jump to the true beginning of the line.

-B (--backup)

When saving a file, back up the previous version of it to the current filename suffixed with a ~.

etc

22. uname

purpose of command : To display system info

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ uname Linux

23. ls -la

purpose of command : To display system info

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ ls -la total 16

drwxrwxr-x 2 user user 4096 Feb 8 22:59.

drwxr-xr-x 7 user user 4096 Feb 8 22:51 ...

-rw-rw-r-- 1 user user 45 Feb 8 19:32 file1

-rw-rw-r-- 1 user user 45 Feb 8 19:52 file2.c

24. echo string

purpose of command : To display string

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ echo hello hello

25. in -s <file><dir name>

purpose of command : To create symbolic link

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ mkdir sym user@user-Veriton-Series:~/Desktop/s469\$ ln -s test sym user@user-Veriton-Series:~/Desktop/s469\$ ls -i test sym sym: 1592828 test

26. ls>file2

purpose of command : To overwrite the listed things into files

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ ls file1 file2.c sym
user@user-Veriton-Series:~/Desktop/s469\$ cat file2.c its from file3...,going to overwritten file2
user@user-Veriton-Series:~/Desktop/s469\$ ls>file2.c
user@user-Veriton-Series:~/Desktop/s469\$ cat file2.c file1

27. command>>file2

purpose of command : To append the date into files

Sample i/p and o/p

file2.c sym

user@user-Veriton-Series:~/Desktop/s469\$ date>>file2.c user@user-Veriton-Series:~/Desktop/s469\$ cat file2.c file1 file2.c sym

Sat Feb 9 00:06:16 IST 2019

28. sort -r \leq file>

purpose of command : To show in reverse order

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ sort -r file2.c sym Sat Feb 9 00:06:16 IST 2019 file2.c file1

29. sort < <filename> | unique > <newfile>

purpose of command : To sort then only unique copied to newfile

Sample i/p and o/p

 $user@user-Veriton-Series: \sim /Desktop/s469\$ \ sort < file2.c \ | \ uniq > u_sname \ user@user-Veriton-Series: \sim /Desktop/s469\$ \ cat < file2.c \ file2.c \ sym$

Sat Feb 9 00:06:16 IST 2019

user@user-Veriton-Series:~/Desktop/s469\$ cat u_sname file1 file2.c
Sat Feb 9 00:06:16 IST 2019
sym

30. chmod {a,u,g,o} {+,-} {r,w,x} <file> purpose of command : To set permissiom Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ ls -l file2.c -rw-rw-r-- 1 user user 56 Feb 9 00:14 file2.c user@user-Veriton-Series:~/Desktop/s469\$ chmod +x file2.c user@user-Veriton-Series:~/Desktop/s469\$ ls -l file2.c -rwxrwxr-x 1 user user 56 Feb 9 00:14 file2.c

31. tr <char> <new char> purpose of command : To translate Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ cat file1 arun sinu thanu surya arya user@user-Veriton-Series:~/Desktop/s469\$ cat file1 | tr 'a' 'z' zrun sinu thznu suryz zryz

32. wc {-l,-c,-w}
purpose of command : To count

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ wc -l file1 8 file1

33. well purpose of command : To find all files <u>Sample i/p and o/p</u>

user@user-Veriton-Series:~/Desktop/s469\$ touch ee user@user-Veriton-Series:~/Desktop/s469\$ touch well user@user-Veriton-Series:~/Desktop/s469\$ find . -newer ee

. ./well

34. jobs

purpose of command : To find all jobs bg

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ jobs [1]+ Stopped man nano

35. kill %job

purpose of command : To kill specific job

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ kill %1 [1]+ Terminated man nano

user@user-Veriton-Series:~/Desktop/s469\$ jobs

36. grep {-i,-w} <string> <filename> purpose of command : search <u>Sample i/p and o/p</u>

user@user-Veriton-Series:~/Desktop/s469\$ grep sinu file1 sinu user@user-Veriton-Series:~/Desktop/s469\$ grep -i SINU file1 sinu

37. grep

purpose of command : To count no.of words starting with some letter

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ cat file1 | grep ^a |wc -l 4 $\,$

38. grep letter <filename>

purpose of command : To find words containing the letter 'letter'

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ cat file1

arun sinu thanu
surya
arya
ananya
Anuja
appu
user@user-Veriton-Series:~/Desktop/s469\$ grep a file1
arun
thanu
surya
arya
ananya
Anuja

39. grep letter\$

appu

purpose of command : To find words containing the last letter is'letter'

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ cat file1|grep u\$ sinu thanu appu

40. grep ^letter

purpose of command : To find words containing the first letter is 'letter'

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ cat file1|grep ^a arun arya ananya appu

41. grep -i

purpose of command : To search for a word

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ grep -i "in" file1 sinu you are in a trouble

42. grep -iw

purpose of command : To search for a word, and avoid matching

substrings

Sample i/p and o/p

user@user-Veriton-Series:~/Desktop/s469\$ grep -iw "in" file1 you are in a trouble

43. wget site purpose of command:getwebsite *Sample i/p and o/p*

guest-qudMMj@HP-406-G1-6:~\$ wget www.google.com --2019-02-14 15:12:21-- http://www.google.com/
Resolving www.google.com (www.google.com)... 216.58.197.68, 2404:6800:4007:80b::2004

Connecting to www.google.com (www.google.com)|216.58.197.68|:80... connected.

HTTP request sent, awaiting response... 200 OK

Length: unspecified [text/html] Saving to: 'index.html.1'

2019-02-14 15:12:21 (1.01 MB/s) - 'index.html.1' saved [14603]

44. ssh purpose of command:logon <u>Sample i/p and o/p</u>

guest-qudMMj@HP-406-G1-6:~\$ ssh s1769@192.168.99.5 s1769@192.168.99.5's password: Welcome to Ubuntu 14.04.1 LTS (GNU/Linux 3.13.0-32-generic x86_64)

* Documentation: https://help.ubuntu.com/

System information as of Thu Feb 14 22:10:43 IST 2019

System load: 1.01 Processes: 382

Usage of /home: 2.1% of 366.56GB Users logged in: 24

Memory usage: 2% IP address for em1: 192.168.99.5

Swap usage: 0%

=> There is 1 zombie process.

Graph this data and manage this system at: https://landscape.canonical.com/

Last login: Thu Feb 14 20:27:17 2019 from 192.168.99.114

45. ftp purpose of command:filetransfer *Sample i/p and o/p*

guest-qudMMj@HP-406-G1-6:~\$ ftp 192.168.99.5 ftp: connect: Connection timed out ftp>

46. curl site purpose of command : details Sample i/p and o/p

guest-qudMMj@HP-406-G1-6:~\$ curl www.google.com <!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN"><head><meta content="text/html; charset=UTF-8" httpequiv="Content-Type"><meta content="/logos/doodles/2019/madhubalas-86thbirthday-5205536088784896-l.png" itemprop="image"><meta content="Madhubala's 86th Birthday" property="twitter:title"><meta content="Madhubala's 86th Birthday! #GoogleDoodle" property="twitter:description"><meta content="Madhubala's 86th Birthday! #GoogleDoodle" property="og:description"><meta content="summary_large_image" property="twitter:card"><meta content="@GoogleDoodles" property="twitter:site"><meta content="https://www.google.com/logos/doodles/2019/madhubalas-86thbirthday-5205536088784896-2x.jpg" property="twitter:image"><meta content="https://www.google.com/logos/doodles/2019/madhubalas-86thbirthday-5205536088784896-2x.jpg" property="og:image"><meta content="1000" property="og:image:width"><meta content="400" property="og:image:height"><title>Google</title><script nonce="SC2OgqkUhCKYJg/bHISd3A==">(function() {window.google={kEI:'UTZlXNS8N5a-9QOJxZdQ',kEXPI:'0,1353747

...eic

RESULT

Run the commands and verified the output.