**Working with a Vi Editor:**

1: Create a file using vi. Enter the following text:

A network is a group of computers that can communicate with each other, share

resources, and access remote hosts or other networks. Netware is a computer network

operating system designed to connect, manage, and maintain a network and its

services. Some of the network services are Netware Directory Services (NDS), file

system, printing and security.

* [admin@sushil Desktop]$ vi network.txt

1. Change the word “Netware” in the second line to “Novell Netware”.

* :%s/Netware/Novell

b. Insert the text “(such as hard disks and printers)” after “share resources” in the

first line.

* /share resources
* a to append text and type “such as hard disks and printers”

c. Append the following text to the file:

“Managing NDS is a fundamental administrator role because NDS provides a single

point for accessing and managing most network resources.”

* Vi.network
* G and type text and save

Working shell

1. Type some text on the shell separated by space

* [admin@sushil Desktop]$ Hello this is test sentence.

1: Move cursor one word back

* Alt + b

2: Move cursor one word forward

* Alt + f

3: Move cursor to the first character

* Ctrl + a

4: Move cursor to the end

* Ctrl + e

5: Delete test from second word to last character

* Ctrl + a, Alt + f, Ctrl + k

6: Delete the current line

* Ctrl + u

2: In lab 4 we have created a file errorlog.txt. Display it using cat command using

command completion.

* [admin@sushil Desktop]$ cat errorlog.txt

3: Display history of command used so far.

* [admin@sushil Desktop]$ history

1 ifconfig

2 exit

3 passwd root

4 cd /root/

5 exit

6 hostname host01

7 su - root

8 yum update -y

9 su root

10 su -

11 cd

12 poweroff

13 ifconfig

4: Search ls command in history file

* [admin@sushil Desktop]$ history | grep ls

19 ls

28 echio ls

29 echo ls

30 echo ls -l

253 ls -d /etc/\*[ab]\*

255 ls

257 ls

259 ls

265 history | grep ls

5: Repeat the last command rd

* [admin@sushil Desktop]$ cat errorlog.txt
* cat: data.txt: No such file or directory
* [admin@sushil Desktop]$ !!
* cat errorlog.txt
* cat: data.txt: No such file or directory

6: Execute 3 command from history file.

267 touch myfile

268 rm mtfile

269 rm myfile

270 history

* [admin@sushil Desktop]$ !267; !268; !269

touch myfile; rm mtfile; rm myfile

rm: cannot remove 'mtfile': No such file or directory

7: What are the different shells available.

* [admin@sushil Desktop]$ cat /etc/shells

/bin/sh

/bin/bash

/usr/bin/sh

/usr/bin/bash

Understanding access permissions

7.1: Create an empty file “demofile” and perform following instruction

* [admin@sushil Desktop]$ touch demofile
* [admin@sushil Desktop]$ ls
* command\_substitution.sh errorlog.txt lsdoc newfriends users
* demofile friends network.txt test\_python variables.sh

1. Revoke read permission from owner and use cat command.

* [admin@sushil Desktop]$ chmod u-r demofile
* [admin@sushil Desktop]$ cat demofile
* cat: demofile: Permission denied

2. Revoke write permission from owner and open using vi

editor and add some contain in it.

* [admin@sushil Desktop]$ chmod u-w demofile
* [admin@sushil Desktop]$ vi demofile
* Permission denied (to edit when opened)

1. Add read and write permission to owner.

* [admin@sushil Desktop]$ chmod u+rw demofile

1. Revoke write and execute from other and group

* [admin@sushil Desktop]$ chmod go-rw demofile

1. Add write permission to group only

* [admin@sushil Desktop]$ chmod g+w demofile

1. Assign read permission to all

* [admin@sushil Desktop]$ chmod a+r demofile

1. Revoke read permission from others

* [admin@sushil Desktop]$ chmod o-r demofile

1. Give the execute permission for the user for a file chap1

* [admin@sushil Desktop]$ chmod u+x chap1

1. Give the execute permission for user, group and others for a file add.c

* [admin@sushil Desktop]$ touch add.c
* [admin@sushil Desktop]$ chmod a+x add.c

10. Remove the execute permission from user, give read permission to

group and others for a file aa.c

* [admin@sushil Desktop]$ chmod u-x,g+r,o+r aa.c

11. Give execute permission for users for a.c, kk.c, nato and myfile using

single command

* [admin@sushil Desktop]$ chmod u+x a.c kk.c nato myfile

7.2: Create an directory “demo” and copy /etc/passwd file in it

1. Display contents of demo

2. Revoke read permission from demo directory and use ls

command on it

3. Revoke write permission from demo directory and try to copy

/etc/profile file in it

4. Delete passwd file from demo directory

5. Revoke execute permission from demo directory and try cd

command on demo.

**Using Process-Related Commands**

1. Find out the PID of the processes that are activated by you

2. Find out the information about all the processes that are currently active

3. Start a different process in the background. Find out the status of the background

process using the PID of the same.

4. Run a job in background

5. Bring a last background job in fore ground

6. Run 3 jobs in background and bring first job in foreground

7. Stop current job

8. Start stopped job

9. Run a job

10. Kill last job

11. Kill your shell using process id

12. Execute a ls command by setting priority as -10 using nice command

13. Display a date on every hour using cron tab