**Working with a Vi Editor:**

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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.

[root@hostname01 ~]# vi network.txt

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

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

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

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

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

system, printing and security.

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:%s/Netware/Novell Netware/g

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

first line.

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

(such as hard disks and printers) resources, and access remote hosts or other networks. Novell Netware is a computer network

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

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

system, printing and security.

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.”

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

(such as hard disks and printers) resources, and access remote hosts or other networks. Novell Netware is a computer network

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

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

system, printing and security.

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

point for accessing and managing most network resources

Working shell

1. Type some text on the shell separated by space

[root@hostname01 ~]# Hello this is shreya

1: Move cursor one word back - Cntrl + b

2: Move cursor one word forward – Cntrl + f

3: Move cursor to the first character – Cntrl + a

4: Move cursor to the end – Cntrl +e

5: Delete test from second word to last character – Cntrl + k

6: Delete the current line – Cntrl + u

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

command completion.

[root@hostname01 ~]# cat errorlog.txt

3: Display history of command used so far.

[admin@hostname01 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

14 exit

15 yum -y update

16 su - root

17 init 0

18 su - root

19 cd

20 su -

21 pwd

22 echo $HOME

23 echo $USER

24 ls -a

25 ls -al

26 ls -l

27 su -

28 cat > friends <<EOF

29 Madhu<TAB>6966456<TAB>09/07/68

30 Jamil<TAB>2345215<TAB>08/09/67

31 Ajay<TAB>5546785<TAB>01/04/66

32 Mano<TAB>7820022<TAB>09/07/68

33 David<TAB>8281292<TAB>09/09/60

34 Simmi<TAB>7864563<TAB>12/12/70

35 Navin<TAB>2224311<TAB>30/05/58

36 EOF

37 cat friends

38 cat friends > newfriends

39 cat newfriends

40 cat friends newfriends

41 who > users

42 cat users

43 cat friends >> users

44 date

45 cal 5 2000

46 date "+%"

47 date "+%m"

48 date "+%D"

49 date "+%/%Training Activity"

50 date "+%Training Activity"

51 date "+%r"

52 ls --help > lsdoc

53 ls

54 cat > data.txt

55 cat data.txt

56 su -

57 cat errorlog.txt

58 history

4: Search ls command in history file

[admin@hostname01 Desktop]$ history | grep ls

24 ls -a

25 ls -al

26 ls -l

52 ls --help > lsdoc

53 ls

59 history | grep ls

5: Repeat the last command rd

[admin@hostname01 Desktop]$ !!

history | grep ls

24 ls -a

25 ls -al

26 ls -l

52 ls --help > lsdoc

53 ls

59 history | grep ls

6: Execute 3 command from history file. - !3

7: What are the different shells available.

[admin@hostname01 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

[root@hostname01 ~]# touch demofile

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

[root@hostname01 ~]# chmod u-r demofile

2. Revoke write permission from owner and open using vi

editor and add some contain in it.

[root@hostname01 ~]# chmod u-w demofile

[root@hostname01 ~]# vi demofile

Warning10

1. Add read and write permission to owner.

[root@hostname01 ~]# chmod u+rw demofile

1. Revoke write and execute from other and group

[root@hostname01 ~]# chmod go-wx demofile

1. Add write permission to group only

[root@hostname01 ~]# chmod g+w demofile

1. Assign read permission to all

[root@hostname01 ~]# chmod a+r demofile

1. Revoke read permission from others

[root@hostname01 ~]# chmod o-r demofile

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

[root@hostname01 ~]# chmod u+x chap1

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

[admin@hostname01 Desktop]$ chmod ugo+x add.c

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

group and others for a file aa.c

[root@hostname01 ~]# chmod u-x,g+r,o+r add.c

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

single command

[root@hostname01 ~]# chmod u+x a.c kk.c nato myfile

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

[admin@hostname01 Desktop]$ mkdir demo

[admin@hostname01 Desktop]$ cp /etc/passwd demo/

1. Display contents of demo

[admin@hostname01 Desktop]$ ls -l demo

total 4

-rw-r--r--. 1 admin admin 2055 Jan 28 11:49 passwd

2. Revoke read permission from demo directory and use ls

command on it

[admin@hostname01 Desktop]$ chmod -r demo

[admin@hostname01 Desktop]$ ls demo

ls: cannot open directory 'demo': Permission denied

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

/etc/profile file in it

[admin@hostname01 Desktop]$ chmod -w demo

[admin@hostname01 Desktop]$ cp /etc/profile demo/

cp: cannot create regular file 'demo/profile': Permission denied

4. Delete passwd file from demo directory

[admin@hostname01 Desktop]$ rm demo/passwd

rm: cannot remove 'demo/passwd': Permission denied

5. Revoke execute permission from demo directory and try cd

command on demo.

[admin@hostname01 Desktop]$ chmod -x demo

[admin@hostname01 Desktop]$ cd demo

bash: cd: demo: Permission denied

**Using Process-Related Commands**

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

[admin@hostname01 Desktop]$ ps -u $USER

PID TTY TIME CMD

1998 ? 00:00:00 systemd

2001 ? 00:00:00 (sd-pam)

2017 ? 00:00:00 gnome-keyring-d

2021 tty2 00:00:00 gdm-wayland-ses

2024 ? 00:00:00 dbus-broker-lau

2026 ? 00:00:00 dbus-broker

2030 tty2 00:00:00 gnome-session-b

2065 ? 00:00:00 gnome-session-c

2067 ? 00:00:00 gnome-session-b

2085 ? 00:01:38 gnome-shell

2101 ? 00:00:00 gvfsd

2106 ? 00:00:00 gvfsd-fuse

2114 ? 00:00:00 at-spi-bus-laun

2119 ? 00:00:00 dbus-broker-lau

2120 ? 00:00:00 dbus-broker

2134 ? 00:00:00 xdg-permission-

2140 ? 00:00:00 gnome-shell-cal

2152 ? 00:00:00 pipewire

2154 ? 00:00:00 wireplumber

2155 ? 00:00:00 pipewire-pulse

2166 ? 00:00:00 evolution-sourc

2172 ? 00:00:00 dconf-service

2187 ? 00:00:00 goa-daemon

2192 ? 00:00:00 gvfs-udisks2-vo

2201 ? 00:00:00 evolution-calen

2215 ? 00:00:04 goa-identity-se

2216 ? 00:00:00 gvfs-mtp-volume

2226 ? 00:00:00 gvfs-gphoto2-vo

2237 ? 00:00:00 gvfs-goa-volume

2238 ? 00:00:00 evolution-addre

2264 ? 00:00:00 gjs

2266 ? 00:00:00 at-spi2-registr

2272 ? 00:00:00 gsd-a11y-settin

2281 ? 00:00:00 gsd-color

2286 ? 00:00:00 gsd-datetime

2289 ? 00:00:01 gsd-housekeepin

2291 ? 00:00:00 gsd-disk-utilit

2292 ? 00:00:00 gsd-keyboard

2296 ? 00:00:00 evolution-alarm

2297 ? 00:00:00 gsd-media-keys

2301 ? 00:00:00 gsd-power

2302 ? 00:00:08 gnome-software

2303 ? 00:00:00 gsd-print-notif

2309 ? 00:00:00 gsd-rfkill

2311 ? 00:00:00 gsd-screensaver

2314 ? 00:00:00 gsd-sharing

2324 ? 00:00:02 gsd-smartcard

2326 ? 00:00:00 gsd-sound

2329 ? 00:00:00 gsd-usb-protect

2336 ? 00:00:00 gsd-wacom

2369 ? 00:00:33 vmtoolsd

2395 ? 00:00:00 gjs

2423 ? 00:00:00 gsd-printer

2472 ? 00:00:00 Xwayland

2496 ? 00:00:00 gvfsd-trash

2561 ? 00:00:01 xdg-desktop-por

2566 ? 00:00:07 ibus-daemon

2570 ? 00:00:00 gsd-xsettings

2573 ? 00:00:00 xdg-document-po

2589 ? 00:00:00 xdg-desktop-por

2597 ? 00:00:00 ibus-dconf

2598 ? 00:00:02 ibus-extension-

2600 ? 00:00:00 ibus-x11

2606 ? 00:00:00 ibus-portal

2647 ? 00:00:00 xdg-desktop-por

2649 ? 00:00:02 ibus-engine-sim

2852 ? 00:00:00 gvfsd-metadata

5117 ? 00:00:00 gnome-terminal-

5135 pts/0 00:00:00 bash

5167 pts/0 00:00:00 ps

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

[admin@hostname01 Desktop]$ ps aux

USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND

root 1 0.0 0.2 174012 16420 ? Ss Jan27 0:03 /usr/lib/syst

root 2 0.0 0.0 0 0 ? S Jan27 0:00 [kthreadd]

root 3 0.0 0.0 0 0 ? S Jan27 0:00 [pool\_workque

root 4 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-rc

root 5 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-sy

root 6 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-sl

root 7 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-ne

root 9 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/0:0H

root 10 0.0 0.0 0 0 ? I Jan27 0:00 [kworker/u512

root 11 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-mm

root 12 0.0 0.0 0 0 ? I Jan27 0:00 [kworker/u512

root 13 0.0 0.0 0 0 ? I Jan27 0:00 [rcu\_tasks\_kt

root 14 0.0 0.0 0 0 ? I Jan27 0:00 [rcu\_tasks\_ru

root 15 0.0 0.0 0 0 ? I Jan27 0:00 [rcu\_tasks\_tr

root 16 0.0 0.0 0 0 ? S Jan27 0:00 [ksoftirqd/0]

root 17 0.0 0.0 0 0 ? I Jan27 0:00 [rcu\_preempt]

root 18 0.0 0.0 0 0 ? S Jan27 0:00 [rcu\_exp\_par\_

root 19 0.0 0.0 0 0 ? S Jan27 0:00 [rcu\_exp\_gp\_k

root 20 0.0 0.0 0 0 ? S Jan27 0:00 [migration/0]

root 21 0.0 0.0 0 0 ? S Jan27 0:00 [idle\_inject/

root 23 0.0 0.0 0 0 ? S Jan27 0:00 [cpuhp/0]

root 24 0.0 0.0 0 0 ? S Jan27 0:00 [cpuhp/1]

root 25 0.0 0.0 0 0 ? S Jan27 0:00 [idle\_inject/

root 26 0.0 0.0 0 0 ? S Jan27 0:02 [migration/1]

root 27 0.0 0.0 0 0 ? S Jan27 0:00 [ksoftirqd/1]

root 29 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/1:0H

root 30 0.0 0.0 0 0 ? S Jan27 0:00 [cpuhp/2]

root 31 0.0 0.0 0 0 ? S Jan27 0:00 [idle\_inject/

root 32 0.0 0.0 0 0 ? S Jan27 0:02 [migration/2]

root 33 0.0 0.0 0 0 ? S Jan27 0:00 [ksoftirqd/2]

root 35 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/2:0H

root 36 0.0 0.0 0 0 ? S Jan27 0:00 [cpuhp/3]

root 37 0.0 0.0 0 0 ? S Jan27 0:00 [idle\_inject/

root 38 0.0 0.0 0 0 ? S Jan27 0:02 [migration/3]

root 39 0.0 0.0 0 0 ? S Jan27 0:00 [ksoftirqd/3]

root 45 0.0 0.0 0 0 ? I Jan27 0:01 [kworker/u514

root 50 0.0 0.0 0 0 ? S Jan27 0:00 [kdevtmpfs]

root 51 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-in

root 52 0.0 0.0 0 0 ? S Jan27 0:00 [kauditd]

root 53 0.0 0.0 0 0 ? S Jan27 0:00 [khungtaskd]

root 54 0.0 0.0 0 0 ? S Jan27 0:00 [oom\_reaper]

root 55 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-wr

root 56 0.0 0.0 0 0 ? S Jan27 0:00 [kcompactd0]

root 57 0.0 0.0 0 0 ? SN Jan27 0:00 [ksmd]

root 58 0.0 0.0 0 0 ? SN Jan27 0:02 [khugepaged]

root 59 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-cr

root 60 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-ki

root 61 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-kb

root 62 0.0 0.0 0 0 ? S Jan27 0:00 [irq/9-acpi]

root 66 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-tp

root 67 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-md

root 68 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-md

root 69 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-ed

root 70 0.0 0.0 0 0 ? S Jan27 0:00 [watchdogd]

root 71 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/0:1H

root 72 0.0 0.0 0 0 ? S Jan27 0:00 [kswapd0]

root 77 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-kt

root 81 0.0 0.0 0 0 ? S Jan27 0:00 [irq/24-pcieh

root 82 0.0 0.0 0 0 ? S Jan27 0:00 [irq/25-pcieh

root 83 0.0 0.0 0 0 ? S Jan27 0:00 [irq/26-pcieh

root 84 0.0 0.0 0 0 ? S Jan27 0:00 [irq/27-pcieh

root 85 0.0 0.0 0 0 ? S Jan27 0:00 [irq/28-pcieh

root 86 0.0 0.0 0 0 ? S Jan27 0:00 [irq/29-pcieh

root 87 0.0 0.0 0 0 ? S Jan27 0:00 [irq/30-pcieh

root 88 0.0 0.0 0 0 ? S Jan27 0:00 [irq/31-pcieh

root 89 0.0 0.0 0 0 ? S Jan27 0:00 [irq/32-pcieh

root 90 0.0 0.0 0 0 ? S Jan27 0:00 [irq/33-pcieh

root 91 0.0 0.0 0 0 ? S Jan27 0:00 [irq/34-pcieh

root 92 0.0 0.0 0 0 ? S Jan27 0:00 [irq/35-pcieh

root 93 0.0 0.0 0 0 ? S Jan27 0:00 [irq/36-pcieh

root 94 0.0 0.0 0 0 ? S Jan27 0:00 [irq/37-pcieh

root 95 0.0 0.0 0 0 ? S Jan27 0:00 [irq/38-pcieh

root 96 0.0 0.0 0 0 ? S Jan27 0:00 [irq/39-pcieh

root 97 0.0 0.0 0 0 ? S Jan27 0:00 [irq/40-pcieh

root 98 0.0 0.0 0 0 ? S Jan27 0:00 [irq/41-pcieh

root 99 0.0 0.0 0 0 ? S Jan27 0:00 [irq/42-pcieh

root 100 0.0 0.0 0 0 ? S Jan27 0:00 [irq/43-pcieh

root 101 0.0 0.0 0 0 ? S Jan27 0:00 [irq/44-pcieh

root 102 0.0 0.0 0 0 ? S Jan27 0:00 [irq/45-pcieh

root 103 0.0 0.0 0 0 ? S Jan27 0:00 [irq/46-pcieh

root 104 0.0 0.0 0 0 ? S Jan27 0:00 [irq/47-pcieh

root 105 0.0 0.0 0 0 ? S Jan27 0:00 [irq/48-pcieh

root 106 0.0 0.0 0 0 ? S Jan27 0:00 [irq/49-pcieh

root 107 0.0 0.0 0 0 ? S Jan27 0:00 [irq/50-pcieh

root 108 0.0 0.0 0 0 ? S Jan27 0:00 [irq/51-pcieh

root 109 0.0 0.0 0 0 ? S Jan27 0:00 [irq/52-pcieh

root 110 0.0 0.0 0 0 ? S Jan27 0:00 [irq/53-pcieh

root 111 0.0 0.0 0 0 ? S Jan27 0:00 [irq/54-pcieh

root 112 0.0 0.0 0 0 ? S Jan27 0:00 [irq/55-pcieh

root 113 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-ac

root 115 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-km

root 116 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-ka

root 118 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-ml

root 119 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/1:1H

root 120 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-ip

root 130 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-ks

root 134 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/u515

root 135 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/u516

root 136 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/u517

root 282 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/2:1H

root 287 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/3:1H

root 454 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-mp

root 455 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-mp

root 457 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-at

root 465 0.0 0.0 0 0 ? S Jan27 0:00 [scsi\_eh\_0]

root 468 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-sc

root 470 0.0 0.0 0 0 ? S Jan27 0:00 [scsi\_eh\_1]

root 471 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-sc

root 472 0.0 0.0 0 0 ? S Jan27 0:00 [scsi\_eh\_2]

root 473 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-sc

root 489 0.0 0.0 0 0 ? S Jan27 0:00 [irq/16-vmwgf

root 492 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-tt

root 519 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/3:2H

root 555 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-kd

root 562 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-kd

root 580 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 581 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 582 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 583 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 584 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 585 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 586 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 587 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 588 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 589 0.0 0.0 0 0 ? S Jan27 0:00 [xfsaild/dm-0

root 661 0.0 0.1 28080 11136 ? Ss Jan27 0:00 /usr/lib/syst

root 678 0.0 0.0 152424 2956 ? Ssl Jan27 0:00 vmware-vmbloc

root 681 0.0 0.1 37708 12760 ? Ss Jan27 0:00 /usr/lib/syst

root 735 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-kd

root 745 0.0 0.0 0 0 ? S Jan27 0:00 [irq/56-vmw\_v

root 746 0.0 0.0 0 0 ? S Jan27 0:00 [irq/57-vmw\_v

root 747 0.0 0.0 0 0 ? S Jan27 0:00 [irq/58-vmw\_v

root 771 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 772 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 773 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 774 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 775 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 776 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 777 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 778 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 779 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 780 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 781 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 782 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 783 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 784 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/R-xf

root 785 0.0 0.0 0 0 ? S Jan27 0:00 [xfsaild/dm-2

root 786 0.0 0.0 0 0 ? S Jan27 0:00 [xfsaild/sda1

root 791 0.0 0.0 92768 4252 ? S<sl Jan27 0:00 /sbin/auditd

root 793 0.0 0.0 7700 3200 ? S< Jan27 0:00 /usr/sbin/sed

dbus 819 0.0 0.0 10864 4808 ? Ss Jan27 0:00 /usr/bin/dbus

dbus 820 0.0 0.0 8100 5336 ? S Jan27 0:00 dbus-broker -

avahi 821 0.0 0.0 16736 6528 ? Ss Jan27 0:00 avahi-daemon:

root 824 0.0 0.0 82764 4352 ? Ssl Jan27 0:02 /usr/sbin/irq

libstor+ 825 0.0 0.0 2704 1664 ? Ss Jan27 0:00 /usr/bin/lsmd

root 826 0.0 0.0 2816 1792 ? Ss Jan27 0:00 /usr/sbin/mce

polkitd 827 0.0 0.3 2714628 25664 ? Ssl Jan27 0:01 /usr/lib/polk

root 829 0.0 0.1 451904 9180 ? Ssl Jan27 0:00 /usr/libexec/

rtkit 830 0.0 0.0 153996 3328 ? SNsl Jan27 0:00 /usr/libexec/

root 831 0.0 0.1 525424 9476 ? Ssl Jan27 0:00 /usr/libexec/

root 834 0.0 0.1 448160 8356 ? Ssl Jan27 0:00 /usr/libexec/

root 836 0.0 0.1 21864 11340 ? Ss Jan27 0:00 /usr/lib/syst

chrony 840 0.0 0.0 84860 3588 ? S Jan27 0:00 /usr/sbin/chr

root 842 0.0 0.1 395396 15468 ? Ssl Jan27 0:00 /usr/libexec/

root 845 0.0 0.1 448800 8764 ? Ssl Jan27 0:00 /usr/libexec/

root 846 0.0 0.1 233516 9856 ? Ss Jan27 0:00 /usr/bin/VGAu

root 847 0.0 0.1 457464 9088 ? Ssl Jan27 0:40 /usr/bin/vmto

avahi 851 0.0 0.0 16464 1964 ? S Jan27 0:00 avahi-daemon:

root 884 0.0 0.1 317604 12364 ? Ssl Jan27 0:00 /usr/sbin/Mod

root 890 0.0 0.5 351680 43800 ? Ssl Jan27 0:01 /usr/bin/pyth

root 1017 0.0 0.2 476364 23096 ? Ssl Jan27 0:01 /usr/sbin/Net

root 1044 0.0 0.1 248664 10624 ? Ss Jan27 0:00 /usr/sbin/cup

root 1045 0.0 0.1 16620 9344 ? Ss Jan27 0:00 sshd: /usr/sb

root 1106 0.0 0.0 164724 7232 ? Ssl Jan27 0:02 /usr/sbin/rsy

root 1122 0.0 0.0 4696 2432 ? Ss Jan27 0:00 /usr/sbin/atd

root 1124 0.0 0.0 223944 3456 ? Ss Jan27 0:00 /usr/sbin/cro

root 1127 0.0 0.1 452996 10564 ? Ssl Jan27 0:00 /usr/sbin/gdm

geoclue 1674 0.0 0.4 561040 33568 ? Ssl Jan27 0:00 /usr/libexec/

root 1689 0.0 0.0 16372 6400 ? Ss Jan27 0:00 /usr/sbin/wpa

colord 1908 0.0 0.1 530260 14016 ? Ssl Jan27 0:00 /usr/libexec/

root 1979 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/u517

root 1986 0.0 0.1 536084 14484 ? Sl Jan27 0:00 gdm-session-w

admin 1998 0.0 0.1 24528 14360 ? Ss Jan27 0:00 /usr/lib/syst

admin 2001 0.0 0.1 27928 7840 ? S Jan27 0:00 (sd-pam)

admin 2017 0.0 0.1 452932 9104 ? Sl Jan27 0:00 /usr/bin/gnom

admin 2021 0.0 0.0 374144 7520 tty2 Ssl+ Jan27 0:00 /usr/libexec/

admin 2024 0.0 0.0 10568 4352 ? Ss Jan27 0:00 /usr/bin/dbus

admin 2026 0.0 0.0 6820 4096 ? S Jan27 0:00 dbus-broker -

admin 2030 0.0 0.2 513020 19100 tty2 Sl+ Jan27 0:00 /usr/libexec/

admin 2065 0.0 0.0 303672 7488 ? Ssl Jan27 0:00 /usr/libexec/

admin 2067 0.0 0.2 874012 22212 ? Ssl Jan27 0:00 /usr/libexec/

admin 2085 0.1 3.5 4619016 274936 ? Ssl Jan27 1:40 /usr/bin/gnom

admin 2101 0.0 0.1 452572 9308 ? Ssl Jan27 0:00 /usr/libexec/

admin 2106 0.0 0.1 379916 8192 ? Sl Jan27 0:00 /usr/libexec/

admin 2114 0.0 0.0 308456 7424 ? Ssl Jan27 0:00 /usr/libexec/

admin 2119 0.0 0.0 10440 4096 ? S Jan27 0:00 /usr/bin/dbus

admin 2120 0.0 0.0 5012 2560 ? S Jan27 0:00 dbus-broker -

admin 2134 0.0 0.0 448088 7764 ? Ssl Jan27 0:00 /usr/libexec/

admin 2140 0.0 0.2 586380 21960 ? Ssl Jan27 0:00 /usr/libexec/

admin 2152 0.0 0.1 327648 13524 ? S<sl Jan27 0:00 /usr/bin/pipe

admin 2154 0.0 0.2 545048 16000 ? S<sl Jan27 0:00 /usr/bin/wire

admin 2155 0.0 0.1 321436 10656 ? S<sl Jan27 0:00 /usr/bin/pipe

admin 2166 0.0 0.3 1287348 30988 ? Ssl Jan27 0:00 /usr/libexec/

admin 2172 0.0 0.0 155992 5376 ? Ssl Jan27 0:00 /usr/libexec/

admin 2187 0.0 0.3 820308 24812 ? Ssl Jan27 0:00 /usr/libexec/

admin 2192 0.0 0.1 527432 13756 ? Ssl Jan27 0:00 /usr/libexec/

admin 2201 0.0 0.4 1051324 33212 ? Ssl Jan27 0:00 /usr/libexec/

admin 2215 0.0 0.1 532456 14072 ? Ssl Jan27 0:04 /usr/libexec/

admin 2216 0.0 0.1 448204 8336 ? Ssl Jan27 0:00 /usr/libexec/

admin 2226 0.0 0.1 450032 10848 ? Ssl Jan27 0:00 /usr/libexec/

root 2234 0.0 0.1 239092 8832 ? Ss Jan27 0:06 /usr/libexec/

admin 2237 0.0 0.1 448284 8068 ? Ssl Jan27 0:00 /usr/libexec/

admin 2238 0.0 0.3 955124 30180 ? Ssl Jan27 0:00 /usr/libexec/

admin 2264 0.0 0.3 2931712 28404 ? Ssl Jan27 0:00 /usr/bin/gjs

admin 2266 0.0 0.0 161596 7040 ? Ssl Jan27 0:00 /usr/libexec/

admin 2272 0.0 0.1 522124 8276 ? Ssl Jan27 0:00 /usr/libexec/

admin 2281 0.0 0.4 666720 33524 ? Ssl Jan27 0:00 /usr/libexec/

admin 2286 0.0 0.2 595168 22768 ? Ssl Jan27 0:00 /usr/libexec/

admin 2289 0.0 0.1 524488 9988 ? Ssl Jan27 0:01 /usr/libexec/

admin 2291 0.0 0.0 232036 7040 ? Sl Jan27 0:00 /usr/libexec/

admin 2292 0.0 0.3 665128 30180 ? Ssl Jan27 0:00 /usr/libexec/

admin 2296 0.0 0.5 916832 46596 ? Sl Jan27 0:00 /usr/libexec/

admin 2297 0.0 0.4 735884 33096 ? Ssl Jan27 0:00 /usr/libexec/

admin 2301 0.0 0.4 666080 33204 ? Ssl Jan27 0:00 /usr/libexec/

admin 2302 0.0 1.2 961376 97364 ? Sl Jan27 0:08 /usr/bin/gnom

admin 2303 0.0 0.2 468088 17132 ? Ssl Jan27 0:00 /usr/libexec/

admin 2309 0.0 0.1 669640 10740 ? Ssl Jan27 0:00 /usr/libexec/

admin 2311 0.0 0.1 448040 8152 ? Ssl Jan27 0:00 /usr/libexec/

admin 2314 0.0 0.1 678252 12728 ? Ssl Jan27 0:00 /usr/libexec/

admin 2324 0.0 0.1 603412 13760 ? Ssl Jan27 0:02 /usr/libexec/

admin 2326 0.0 0.1 530544 13692 ? Ssl Jan27 0:00 /usr/libexec/

admin 2329 0.0 0.1 671464 9212 ? Ssl Jan27 0:00 /usr/libexec/

admin 2336 0.0 0.4 665716 32640 ? Ssl Jan27 0:00 /usr/libexec/

admin 2369 0.0 0.5 388160 40232 ? Sl Jan27 0:33 /usr/bin/vmto

admin 2395 0.0 0.3 2931676 28164 ? Ssl Jan27 0:00 /usr/bin/gjs

admin 2423 0.0 0.2 599348 21784 ? Sl Jan27 0:00 /usr/libexec/

admin 2472 0.0 0.5 179076 44428 ? S Jan27 0:00 /usr/bin/Xway

admin 2496 0.0 0.1 600504 10576 ? Sl Jan27 0:00 /usr/libexec/

root 2513 0.0 0.0 0 0 ? I< Jan27 0:00 [kworker/u516

admin 2561 0.0 0.2 836312 19472 ? Ssl Jan27 0:01 /usr/libexec/

admin 2566 0.0 0.1 600460 11188 ? Sl Jan27 0:07 ibus-daemon -

admin 2570 0.0 0.7 813024 60112 ? Ssl Jan27 0:00 /usr/libexec/

admin 2573 0.0 0.1 891392 10520 ? Ssl Jan27 0:00 /usr/libexec/

root 2579 0.0 0.0 2652 1664 ? Ss Jan27 0:00 fusermount -o

admin 2589 0.0 0.4 895940 33956 ? Ssl Jan27 0:00 /usr/libexec/

admin 2597 0.0 0.1 449080 8960 ? Sl Jan27 0:00 /usr/libexec/

admin 2598 0.0 0.4 595680 32752 ? Sl Jan27 0:02 /usr/libexec/

admin 2600 0.0 0.3 516760 28012 ? Sl Jan27 0:00 /usr/libexec/

admin 2606 0.0 0.1 449024 9060 ? Ssl Jan27 0:00 /usr/libexec/

admin 2647 0.0 0.3 591484 30772 ? Ssl Jan27 0:00 /usr/libexec/

admin 2649 0.0 0.1 375240 9028 ? Sl Jan27 0:02 /usr/libexec/

root 2677 0.0 0.3 566216 31340 ? Ssl Jan27 0:01 /usr/libexec/

admin 2852 0.0 0.1 374796 9952 ? Ssl Jan27 0:00 /usr/libexec/

root 3360 0.0 0.0 0 0 ? I< 00:00 0:00 [kworker/R-tl

root 4300 0.0 0.0 0 0 ? I 09:14 0:00 [kworker/u513

root 4356 0.0 0.0 0 0 ? I 09:59 0:00 [kworker/u513

root 4386 0.0 0.0 0 0 ? I 10:14 0:00 [kworker/3:1-

root 4407 0.0 0.0 0 0 ? I 10:37 0:00 [kworker/2:1-

root 4422 0.0 0.0 0 0 ? I 10:44 0:00 [kworker/u514

root 4473 0.0 0.0 0 0 ? I 11:14 0:00 [kworker/u514

root 4605 0.0 0.0 0 0 ? I 11:16 0:00 [kworker/1:3-

root 4676 0.0 0.0 0 0 ? I 11:29 0:00 [kworker/u513

root 4677 0.0 0.0 0 0 ? I 11:29 0:00 [kworker/3:0-

root 4725 0.0 0.0 0 0 ? I 11:36 0:00 [kworker/2:2-

root 4770 0.0 0.0 0 0 ? I 11:37 0:00 [kworker/1:1-

root 4774 0.0 0.0 0 0 ? I 11:38 0:00 [kworker/0:2-

root 4893 0.0 0.0 0 0 ? I 11:42 0:00 [kworker/2:0-

root 4973 0.0 0.0 0 0 ? I 11:47 0:00 [kworker/0:0-

root 4982 0.0 0.0 0 0 ? I 11:49 0:00 [kworker/2:3]

root 5045 0.0 0.0 0 0 ? I 11:49 0:00 [kworker/u513

admin 5117 1.0 0.6 762280 50680 ? Rsl 11:53 0:00 /usr/libexec/

admin 5135 0.0 0.0 224112 5504 pts/0 Ss 11:53 0:00 bash

admin 5173 0.0 0.0 225368 3456 pts/0 R+ 11:54 0:00 ps aux

1. Start a different process in the background.

[admin@hostname01 Desktop]$ firefox &

[1] 5183

1. Find out the status of the background

process using the PID of the same.

[admin@hostname01 Desktop]$ firefox &

[1] 5183

5. Run a job in background

[admin@hostname01 Desktop]$ firefox &

[1] 5183

6. Bring a last background job in fore ground

[admin@hostname01 Desktop]$ firefox &

[1] 5183

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

[admin@hostname01 Desktop]$ firefox &

[1] 5183

7. Stop current job – Cntrl + Z

8. Start stopped job - bg

10. Kill last job – kill %1

11. Kill your shell using process id – kill -9 $$

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

13. Display a date on every hour using cron tab – crontab -e

0 \*\*\*\*date >> /tmp/timestamp.log