Experiment Number: 1

Problem Statement: **Execution of Basic Linux commands**

NAME: Aadesh Chawla ROLLNO: 12

CLASS: TY-IT-A BATCH: B1

DATE OF PERFORMANCE: 29-06-2023

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PROGRAM:

1. **Date:**

aadesh@aadesh-VirtualBox:~/Desktop$ date

Thursday 13 July 2023 10:50:46 AM IST

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ date +%F

2023-07-13

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ date +%a

Thu

1. **Cal:**

aadesh@aadesh-VirtualBox:~/Desktop$ cal

July 2023

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

1. **Who:**

aadesh@aadesh-VirtualBox:~/Desktop$ who

aadesh tty2 2023-07-13 10:31 (tty2)

1. **Whoami:**

aadesh@aadesh-VirtualBox:~/Desktop$ whoami

aadesh

1. **Echo**

aadesh@aadesh-VirtualBox:~/Desktop$ echo aadesh

aadesh

1. **Bc**

aadesh@aadesh-VirtualBox:~/Desktop$ bc

bc 1.07.1

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For details type `warranty'.

4+5

9

1. **Alias**

aadesh@aadesh-VirtualBox:~/Desktop$ alias 'c=cp -i'

1. **Cd**

aadesh@aadesh-VirtualBox:~/Desktop$ cd ~/Desktop/icecream

1. **Man**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ man cp

1. **Cp**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cp test.txt test\_sec.txt

1. **Mv**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ mv test\_sec.txt test2.txt

1. **Touch**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ touch remove.txt

1. **Rm**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ rm remove.txt

1. **Mkdir**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ mkdir prath

1. **Rmdir**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ rmdir prath

1. **Pwd**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ pwd

/home/aadesh/Desktop/icecream

1. **Cat>**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat> aad.txt

jhgajh

kshgjhg

yteuyg

odiuihvj

1. **Cat>>**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat>>test.txt

katkar

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat test.txt

aadesh

chawla

kartik katkar

katkar

1. **Cat**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat test.txt

aadesh

chawla

kartik katkar

katkar

1. **More**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ more test.txt

aadesh

chawla

kartik katkar

katkar

1. **File**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ file test.txt

test.txt: ASCII text

1. **Wc**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ wc test.txt

4 5 35 test.txt

1. **Cmp**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cmp test.txt test2.txt

cmp: EOF on test2.txt after byte 28, line 3

1. **Comm**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ comm test.txt test4.txt

1|Aadesh Chawla|12|IT

2|Kartik Katkar|36|IT

3|Sakshi Bodhe|09|IT

4|Maitrey Chithale|27|CS

5|Paras Chopkar|56|Mech

comm: file 2 is not in sorted order

1|Aadesh Chawla|12|IT

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5|Paras Chopkar|56|Mech

aadesh

chawla

kartik katkar

katkar

comm: input is not in sorted order

1. **Diff:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ diff test.txt test2.txt

4d3

< katkar

1. **Sort**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ sort test.txt

aadesh

chawla

kartik katkar

katkar

1. **Gzip**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ gzip test.txt

1. **Gunzip**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ gunzip test.txt

1. **Ls**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ ls

aad.txt error linkfile.txt temp.txt test2.txt test4.txt test5.txt test.txt

1. **Ls -dir**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ ls ~/Desktop

icecream mayr.txt

1. **Ln**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ ln test2.txt link.txt

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat link.txt

aadesh

chawla

kartik katkar

1. **Df**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ df

Filesystem 1K-blocks Used Available Use% Mounted on

tmpfs 427264 1560 425704 1% /run

/dev/sda3 81467832 14980756 62302808 20% /

tmpfs 2136320 0 2136320 0% /dev/shm

tmpfs 5120 4 5116 1% /run/lock

/dev/sda2 524252 6216 518036 2% /boot/efi

tmpfs 427264 112 427152 1% /run/user/1000

/dev/sr0 52232 52232 0 100% /media/aadesh/VBox\_GAs\_7.0.8

1. **Du**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ du

32

1. **Locate**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ locate test.txt

/home/aadesh/Desktop/icecream/test.txt

1. **Uname**

adesh@aadesh-VirtualBox:~/Desktop/icecream$ uname

Linux

1. **Ps**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ ps

PID TTY TIME CMD

2230 pts/0 00:00:00 bash

3852 pts/0 00:00:00 ps

1. **Top**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ top

top - 11:06:43 up 35 min, 1 user, load average: 0.23, 0.17, 0.21

Tasks: 201 total, 2 running, 199 sleeping, 0 stopped, 0 zombie

%Cpu(s): 2.5 us, 0.3 sy, 0.0 ni, 96.9 id, 0.0 wa, 0.0 hi, 0.3 si, 0.0 st

MiB Mem : 4172.5 total, 1743.0 free, 857.0 used, 1572.4 buff/cache

MiB Swap: 3612.0 total, 3612.0 free, 0.0 used. 3016.4 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND

1621 aadesh 20 0 4600788 379584 155760 R 6.5 8.9 2:19.51 gnome-shell

2212 aadesh 20 0 578956 59088 45212 S 1.6 1.4 0:15.15 gnome-terminal-

1 root 20 0 102396 13336 8368 S 0.0 0.3 0:01.84 systemd

2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd

3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu\_gp

4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu\_par\_gp

5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 slub\_flushwq

6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns

8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-events\_highpri

9 root 20 0 0 0 0 I 0.0 0.0 0:02.00 kworker/u4:0-events\_power\_efficient

10 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm\_percpu\_wq

11 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu\_tasks\_kthread

12 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu\_tasks\_rude\_kthread

13 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu\_tasks\_trace\_kthread

14 root 20 0 0 0 0 S 0.0 0.0 0:00.16 ksoftirqd/0

15 root 20 0 0 0 0 I 0.0 0.0 0:01.16 rcu\_preempt

16 root rt 0 0 0 0 S 0.0 0.0 0:00.02 migration/0

17 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle\_inject/0

19 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0

20 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1

21 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle\_inject/1

22 root rt 0 0 0 0 S 0.0 0.0 0:00.65 migration/1

23 root 20 0 0 0 0 S 0.0 0.0 0:00.18 ksoftirqd/1

25 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-events\_highpri

26 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs

27 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 inet\_frag\_wq

28 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd

29 root 20 0 0 0 0 S 0.0 0.0 0:00.00 khungtaskd

31 root 20 0 0 0 0 S 0.0 0.0 0:00.00 oom\_reaper

33 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback

34 root 20 0 0 0 0 S 0.0 0.0 0:00.11 kcompactd0

35 root 25 5 0 0 0 S 0.0 0.0 0:00.00 ksmd

36 root 39 19 0 0 0 S 0.0 0.0 0:00.00 khugepaged

37 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kintegrityd

38 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kblockd

39 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 blkcg\_punt\_bio

40 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 tpm\_dev\_wq

41 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 ata\_sff

42 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 md

43 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 edac-poller

44 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 devfreq\_wq

1. **History**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ history

1. **Whereis**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ whereis sudo

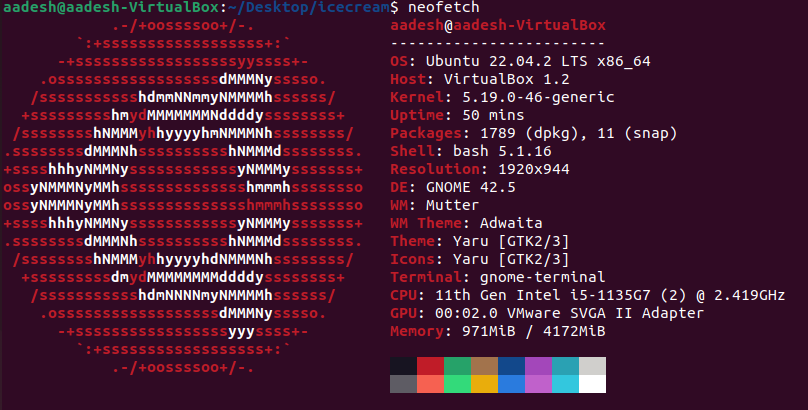
sudo: /usr/bin/sudo /usr/libexec/sudo /usr/share/man/man8/sudo.8.gz

1. **Whatis**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ whatis sudo

sudo (8) - execute a command as another user

1. **Neofetch**



1. **Ls -n:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ ls -n

total 36

-rw-rw-r-- 1 1000 1000 31 Jul 13 10:58 aad.txt

-rw-rw-r-- 1 1000 1000 45 Jul 13 10:39 error

-rw-rw-r-- 2 1000 1000 570 Jul 13 09:17 linkfile.txt

-rw-rw-r-- 2 1000 1000 28 Jul 13 10:56 link.txt

-rw-rw-r-- 1 1000 1000 47 Jul 9 18:02 temp.txt

-rw-rw-r-- 2 1000 1000 28 Jul 13 10:56 test2.txt

-rw-rw-r-- 2 1000 1000 570 Jul 13 09:17 test4.txt

-rw-rw-r-- 1 1000 1000 35 Jul 13 09:25 test5.txt

-rw-rw-r-- 1 1000 1000 35 Jul 13 10:58 test.txt