MOHD SAIF UDDIN

6300673439

@Task on Linux:

1) Create user with name Techie and provide sudo access to user.

```
##
## user MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## Allow root to run any commands anywhere
root ALL=(ALL) ALL

## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS

## Allows people in group wheel to run all commands
%wheel ALL=(ALL) ALL

## Same thing without a password
# wheel ALL=(ALL) NOPASSWD: ALL
## Rewtechi ALL=(ALL) NOPASSWD: ALL
## Allows members of the users group to mount and unmount the
## cdrom as root
# %users ALL=/Sbin/mount/mnt/cdrom, /sbin/umount /mnt/cdrom
## Allows members of the users group to shutdown this system
# %users localhost=/sbin/shutdown -h now

## Read drop-in files from /etc/sudoers.d (the # here does not mean a comment)
## Read drop-in files from /etc/sudoers.d
"/etc/sudoers" [readonly] 120L, 4437B
```

- 2) Navigate to the home directory.
- 3) Create a new directory.
- 4) List the contents of a directory.
- 5) Change the current directory.
- 6) Create a new empty file.
- 7) View the contents of a file.

```
root@ip-172-31-37-173 ec2-user]# cd /hom
[root@ip-172-31-37-173 home]# mkdir newdir
[root@ip-172-31-37-173 home]# ls
ec2-user farooq newdir newtechi saif techi techie
[root@ip-172-31-37-173 home] # rm -rf farooq newdir saif techi techie [root@ip-172-31-37-173 home] # ls
ec2-user newtechi
[root@ip-172-31-37-173 home]# rm -rf newtechi
[root@ip-172-31-37-173 home]# ls
[root@ip-172-31-37-173 home]# mkdir dir1
[root@ip-172-31-37-173 home]# ls
dir1 ec2-user
[root@ip-172-31-37-173 home] # cd dir1
[root@ip-172-31-37-173 dir1] # ls
[root@ip-172-31-37-173 dir1] # echo "hello world" >file1
[root@ip-172-31-37-173 dir1]# ls
file1
[root@ip-172-31-37-173 dir1]# catf
bash: catf: command not found
[root@ip-172-31-37-173 dir1]# cat file
cat: file: No such file or directory
[root@ip-172-31-37-173 dir1]# cat file1
hello world
```

- 8) Copy a file to another location.
- 9) Move a file to another location.
- 10) Rename a file.
- 11) Delete a file.

```
[root@ip-172-31-37-173 dir1]# cat file1
nello world
[root@ip-172-31-37-173 dir1]# cp file /home
cp: cannot stat 'file': No such file or directory
[root@ip-172-31-37-173 dir1]# cp file1 /home
[root@ip-172-31-37-173 dir1]# cd ..
[root@ip-172-31-37-173 home]# ls
dir1 ec2-user file1
[root@ip-172-31-37-173 home]# mkdir dir2
[root@ip-172-31-37-173 home]# mv file1 /home/dir2
[root@ip-172-31-37-173 home]# mv file1 /home/dir2
[root@ip-172-31-37-173 home]# cd dir2
[root@ip-172-31-37-173 dir2]# mv file1 file2
[root@ip-172-31-37-173 dir2]# mv file1 file2
[root@ip-172-31-37-173 dir2]# rm -f file2
[root@ip-172-31-37-173 dir2]# rm -f file2
[root@ip-172-31-37-173 dir2]# chmod 777 file2
chmod: cannot access 'file2': No such file or directory
[root@ip-172-31-37-173 dir2]# ls
[root@ip-172-31-37-173 dir2]# cd ..
[root@ip-172-31-37-173 dir2]# ls
[root@ip-172-31-37-173 dir2]# cd ..
[root@ip-172-31-37-173 dir2]# ls
```

12) Grant or revoke permissions on a file or directory.

```
[root@ip-172-31-37-173 dir2]# cd..
bash: cd.: command not found
[root@ip-172-31-37-173 dir2]# cd ..
[root@ip-172-31-37-173 home]# chmod 000 newdir
chmod: cannot access 'newdir': No such file or directory
[root@ip-172-31-37-173 home]# chmod 000 dir1
[root@ip-172-31-37-173 home]# ll dir1
total 4
-rw-r---- 1 root root 12 Aug 2 07:03 file1
[root@ip-172-31-37-173 home]# chmod 777 dir1
[root@ip-172-31-37-173 home]# ll -dir1
8523710 drwxr-xr-x. 5 root root 46 Aug 2 07:06 .
[root@ip-172-31-37-173 home]#
```

13) View the current date and time.

```
[root@ip-172-31-37-173 home]# 11 -dir1
8523710 drwxr-xr-x. 5 root root 46 Aug 2 07:06 .
[root@ip-172-31-37-173 home]# date
Sat Aug 2 07:13:20 UTC 2025
[root@ip-172-31-37-173 home]#
```

14) Check the system uptime.

```
[root@ip-172-31-37-173 home]# uptime
07:14:11 up 1:13, 2 users, load average: 0.00, 0.00, 0.00
[root@ip-172-31-37-173 home]#
```

15) View the running processes.

16) Kill a running process.

```
4365 pts/1 00:00:00 bash
5042 pts/1 00:00:00 ps
[root@ip-172-31-37-173 home]# kill -9 4361
Killed
[ec2-user@ip-172-31-37-173 ~]$
```

17) Install a package using the package manager (e.g., apt or yum).

18) Update the system packages.

```
[root@ip-172-31-37-173 ec2-user]# yum update net-tools
Last metadata expiration check: 0:09:46 ago on Sat Aug 2 07:18:08 2025.

Dependencies resolved.

Nothing to do.

Complete!

[root@ip-172-31-37-173 ec2-user]#
```

```
[root@ip-172-31-37-173 ec2-user]# yum update
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-37-173 ec2-user]#
```

19) Create a symbolic link.

```
[root@ip-172-31-37-173 dir2]# cat file.txt
1.techie horizon
2.devops engineer
3.aws cloud associate
4.jenkins
5.maven
6.sonarqube
7.terraform
8.linux
9.ansible playbook
10.git
11.docker
[root@ip-172-31-37-173 dir2]# ls
[root@ip-172-31-37-173 dir2]# ln -s file.txt
ln: failed to create symbolic link './file.txt': File exists
[root@ip-172-31-37-173 dir2]# ls -n file.txt
 -rw-r--r--. 1 0 0 143 Aug 2 07:45 file.txt
[root@ip-172-31-37-173 dir2]# ln -s file.txt
ln: failed to create symbolic link './file.txt': File exists
[root@ip-172-31-37-173 dir2]# mv file.txt file1.txt [root@ip-172-31-37-173 dir2]# ln -s file1.txt ln: failed to create symbolic link './file1.txt': File exists
[root@ip-172-31-37-173 dir2]# cd ..
[root@ip-172-31-37-173 home]# ln -s file.txt
[root@ip-172-31-37-173 home]# ls
     dir2 ec2-user
[root@ip-172-31-37-173 home]#
```

20) Search for files using the find command.

```
[root@ip-172-31-37-173 /]# find / -type d -name "dir1"
/home/dir1
[root@ip-172-31-37-173 /]# find / -type f -name "file.txt"
[root@ip-172-31-37-173 /]# find / -type f -name "file1.txt"
/home/dir2/file1.txt
[root@ip-172-31-37-173 /]#
```

21) Compress and decompress files using tar.

22) Monitor system resources with top or htop.

```
top - 07:54:41 up 1:53, 3 users, load average: 0.00, 0.01, 0.00
Tasks: 107 total, 1 running, 106 sleeping, 0 stopped, 0 zombie

%Cpu(s): 0.0 us, 0.0 sy, 0.0 in; 100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st

MiB Mem: 904.8 total, 160.0 free, 204.5 used, 540.4 buff/cache

MiB Swap: 0.0 total, 0.0 free, 0.0 used. 551.2 avail Mem

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

1 root 20 0 172336 17272 10680 S 0.0 1.9 0:01.28 systemd

2 root 20 0 0 0 0 0 0 1 0.0 0.0 0:00.00 rcu_gp

4 root 0 -20 0 0 0 0 1 0.0 0.0 0:00.00 rcu_gp

4 root 0 -20 0 0 0 0 1 0.0 0.0 0:00.00 rcu_gp

5 root 0 -20 0 0 0 0 1 0.0 0.0 0:00.00 rcu_gp

6 root 0 -20 0 0 0 0 1 0.0 0.0 0:00.00 slub_flushwq

6 root 0 -20 0 0 0 0 1 0.0 0.0 0:00.00 lsub_flushwq

8 root 0 -20 0 0 0 0 1 0.0 0.0 0:00.00 lsub_flushwq

11 root 0 -20 0 0 0 0 1 0.0 0.0 0:00.00 lsub_flushwq

12 root 20 0 0 0 0 1 0.0 0.0 0:00.00 lsub_flushwq

13 root 0 -20 0 0 0 0 1 0.0 0.0 0:00.00 lsub_flushwq

14 root 20 0 0 0 0 0 1 0.0 0.0 0:00.00 rcu_tasks_thread

12 root 20 0 0 0 0 0 1 0.0 0.0 0:00.00 rcu_tasks_thread

14 root 20 0 0 0 0 0 1 0.0 0.0 0:00.00 rcu_tasks_trace_kthread

14 root 20 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

14 root 20 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

15 root 20 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

16 root rt 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

17 root 20 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

18 root 20 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

19 root 20 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

19 root 20 0 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

20 root rt 0 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

21 root 20 0 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

22 root 20 0 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

23 root 0 -20 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

24 root 20 0 0 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

25 root 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0:00.00 rcu_tasks_trace_kthread

26 roo
```

23) Create and manage user groups.

J III (Section [rate-3]

24) Set up SSH password less authentication.

```
test-kp.pem
ubuntu-24.04.2-desktop-amd64.iso

DELL@DESKTOP-RCNKJC4 MINGW64 ~/downloads
$ ssh -i "test-kp.pem" ec2-user@54.144.98.173 (54.144.98.173)' can't be established.
ED25519 key fingerprint is SHA256:MzAjlPvP6k26+MOLltlER67LWY5Xr8T40UXTdExSbjE.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '54.144.98.173' (ED25519) to the list of known hosts.

####_____ Amazon Linux 2023

#####_____ https://aws.amazon.com/linux/amazon-linux-2023

V'''->

Last login: Sat Aug 2 06:54:07 2025 from 18.206.107.29

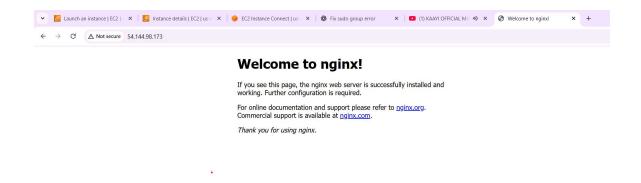
[ec2-user@ip-172-31-37-173 ~]$ |
```

25) Monitor log files using tail or grep.

```
[root@ip-172-31-37-173 dir2]# tail -f /home/dir2/file1.txt
2.devops engineer
3.aws cloud associate
4.jenkins
5.maven
6.sonarqube
7.terraform
8.linux
9.ansible playbook
10.git
11.docker
 ý
[root@ip-172-31-37-173 dir2]# tail -n 3 /home/dir2/file1.txt
9.ansible playbook
10.git
11.docker
[root@ip-172-31-37-173 dir2]# head -n 4 /file1.txt
head: cannot open '/file1.txt' for reading: No such file or directory
[root@ip-172-31-37-173 dir2]# head -n 4 /home/dir2/file1.txt
1.techie horizon
2.devops engineer
3.aws cloud associate
4.jenkins
[root@ip-172-31-37-173 dir2]# grep jenkins /home/dir2/file1.txt
```

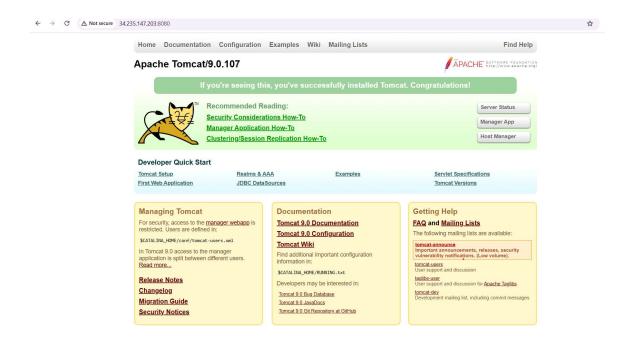
26) Set up a web server (e.g., Apache or Nginx).

It works!



27) Configure and secure a MySQL Database.

28) Set up a Application Server (e.g., Apache Tomcat)



29) create a service file for Apache Tomcat. (Should execute by using systemtctl command)



30) Print specific columns from a delimited file.

```
[root@ip-172-31-37-233 saif]# awk -F ',' '{print $3}' devops.txt
room1.12
room1.22
room2.33
room2.44
room3.55
room3.66
room3.77
ro8om4.8
room4.99
room4.110
room5.121
[root@ip-172-31-37-233 saif]#
```

31) Filter and print lines based on a specific pattern or condition.

```
[root@ip-172-31-37-233 saif]# grep "room" devops.txt
1.kubernetes,2,room1.12
2.terraform,2,room1.22
3.jenkins,2,room2.33
4.ansible,2,room2.44
5.docker,2,room3.55
6.git,1,room3.66
7.aws,1,room3.77
9.route,53,room4.99
10.linux,4,room4.110
11.ubuntu,4,room5.121
[root@ip-172-31-37-233 saif]# grep devops.txt
```

32) Calculate and print the average, sum, or other statistics of a column.

S III (Sedicit

```
[root@ip-172-31-37-233 saif]#
[root@ip-172-31-37-233 saif]# cat devops.txt
1.kubernetes,2,room1.12
2.terraform,2,room1.22
3.jenkins,2,room2.33
4.ansible,2,room3.55
6.git,1,room3.66
7.aws,1,room3.77
8.cloud,watch,ro8om4.8
9.route,53,room4.99
10.linux,4,room4.110
11.ubuntu,4,room5.121
[root@ip-172-31-37-233 saif]# awk -F ',' '{sum += $2} END {print sum}' devops.txt
73
[root@ip-172-31-37-233 saif]#
```

33) Perform string manipulation, such as extracting substrings or changing case.

```
root@ip-172-31-37-233 saif]# cat devops.txt
.kubernetes, 2, room1.12
.terraform, 2, room1.22
3.jenkins,2,room2.33
.ansible,2,room2.44
.docker, 2, room3.55
.git,1,room3.66
.aws, 1, room3.77
.cloud, watch, ro8om4.8
.route, 53, room4.99
0.linux, 4, room4.110
1.ubuntu, 4, room5.121
root@ip-172-31-37-233 saif]# sed 's/room/batch/' devops.txt
.kubernetes, 2, batch1.12
terraform, 2, batch1.22
.jenkins,2,batch2.33
.ansible, 2, batch 2.44
.docker, 2, batch 3.55
.git,1,batch3.66
.aws,1,batch3.77
.cloud, watch, ro8om4.8
.route,53,batch4.99
0.linux, 4, batch 4.110
1.ubuntu, 4, batch 5.121
root@ip-172-31-37-233 saif]#
```

```
[root@ip-172-31-37-233 saif]# cat devops.txt
1.kubernetes, 2, room1.12
2.terraform, 2, room1.22
3.jenkins, 2, room2.33
4.ansible, 2, room2.44
5.docker, 2, room3.55
6.git, 1, room 3.66
7.aws, 1, room3.77
8.cloud, watch, ro8om4.8
9.route, 53, room4.99
10.linux, 4, room4.110
11.ubuntu, 4, room5.121
[root@ip-172-31-37-233 saif]# sed -i 's/room/batch/g' devops.txt
[root@ip-172-31-37-233 saif]# cat devops.txt \
> ^C
[root@ip-172-31-37-233 saif]# cat devops.txt
1.kubernetes, 2, batch 1.12
2.terraform, 2, batch1.22
3.jenkins, 2, batch 2.33
4.ansible, 2, batch 2.44
5.docker, 2, batch3.55
6.git,1,batch3.66
7.aws, 1, batch 3.77
8.cloud, watch, ro8om4.8
9.route, 53, batch4.99
10.linux, 4, batch 4.110
11.ubuntu, 4, batch 5.121
[root@ip-172-31-37-233 saif]#
```

34) Count the occurrences of a specific pattern in a file.

```
[root@ip-172-31-37-233 saif]# grep -c "batch" devops.txt
10
[root@ip-172-31-37-233 saif]# grep -n "batch" devops.txt
1:1.kubernetes,2,batch1.12
2:2.terraform,2,batch1.22
3:3.jenkins,2,batch2.33
4:4.ansible,2,batch2.44
5:5.docker,2,batch3.55
6:6.git,1,batch3.66
7:7.aws,1,batch3.77
9:9.route,53,batch4.99
10:10.linux,4,batch4.110
11:11.ubuntu,4,batch5.121
[root@ip-172-31-37-233 saif]# grep -o "batch" devops.txt
batch
bat
```

```
3:3.jenkins,2,batch2.33
4:4.ansible,2,batch2.44
5:5.docker,2,batch3.55
6:6.git,1,batch3.66
7:7.aws,1,batch3.77
9:9.route,53,batch4.99
10:10.linux,4,batch5.121
[root@ip-172-31-37-233 saif]# grep -o "batch" devops.txt
batch
batch
batch
batch
batch
batch
batch
batch
cord@ip-172-31-37-233 saif]# grep -o "batch" devops.txt | wc
10 10 60
[root@ip-172-31-37-233 saif]# grep -wc devops.txt

**C**
C**C**
[root@ip-172-31-37-233 saif]# grep -c "batch" devops.txt | wc
1 1 1 3
```

35) Sort lines based on a specific field or column.

```
[root@ip-172-31-37-233 saif]# sort -k 2 devops.txt
1.kubernetes, 2, batch1.12
10.linux, 4, batch4.110
11.ubuntu, 4, batch 5.121
2.terraform, 2, batch1.22
3.jenkins, 2, batch 2.33
4.ansible, 2, batch 2.44
5.docker, 2, batch3.55
6.git, 1, batch 3.66
7.aws, 1, batch 3.77
8.cloud, watch, ro8om4.8
9.route,53,batch4.99
[root@ip-172-31-37-233 saif]# sort -k 3 devops.txt
1.kubernetes, 2, batch 1.12
10.linux, 4, batch4.110
11.ubuntu, 4, batch 5.121
2.terraform, 2, batch1.22
3.jenkins, 2, batch 2.33
4.ansible, 2, batch 2.44
5.docker, 2, batch 3.55
6.git, 1, batch 3.66
7.aws, 1, batch 3.77
8.cloud, watch, ro8om4.8
9.route,53,batch4.99
[root@ip-172-31-37-233 saif]# sort -k 4 devops.txt
1.kubernetes, 2, batch 1.12
10.linux, 4, batch4.110
11.ubuntu, 4, batch 5.121
```

```
sort: stray character in field spec: invalid field speci
[root@ip-172-31-37-233 saif] # sort -k2 - n devops.txt
sort: cannot read: n: No such file or directory
[root@ip-172-31-37-233 saif]# sort -k2 -n devops.txt
1.kubernetes, 2, batch 1.12
10.linux, 4, batch4.110
11.ubuntu, 4, batch 5.121
2.terraform, 2, batch1.22
3.jenkins, 2, batch 2.33
4.ansible, 2, batch 2.44
5.docker, 2, batch 3.55
6.git, 1, batch 3.66
7.aws, 1, batch 3.77
8.cloud, watch, ro8om4.8
9.route, 53, batch4.99
[root@ip-172-31-37-233 saif]# sort -k2 -nr devops.txt
9.route,53,batch4.99
8.cloud, watch, ro8om4.8
7.aws, 1, batch 3.77
6.git, 1, batch 3.66
5.docker, 2, batch 3.55
4.ansible, 2, batch 2.44
3.jenkins, 2, batch 2.33
2.terraform, 2, batch 1.22
11.ubuntu, 4, batch 5.121
10.linux, 4, batch4.110
1.kubernetes, 2, batch 1.12
[root@ip-172-31-37-233 saif]#
```

36) Merge multiple files based on a common field or column.

37) Substitute text in a file using search and replace.

```
[root@ip-172-31-37-233 saif]# cat students.txt
101 Alice
102 Bob
103 Charlie
[root@ip-172-31-37-233 saif]# sed -i 's/saif/alice/q' students.txt
[root@ip-172-31-37-233 saif]# cat students.txt
101 Alice
102 Bob
103 Charlie
[root@ip-172-31-37-233 saif]# rm -rf *
[root@ip-172-31-37-233 saif]# ls
[root@ip-172-31-37-233 saif]# touch file.txt
[root@ip-172-31-37-233 saif]# vi file.txt
[root@ip-172-31-37-233 saif] # sed -i 's/batch/room/g' file.txt
[root@ip-172-31-37-233 saif]# cat file.txt
room1 mujahed
room2 saif
room3 omer
room4 mohammed
[root@ip-172-31-37-233 saif] # sed -i 's/room/batch/q' file.txt
[root@ip-172-31-37-233 saif]# cat file.txt
batch1 mujahed
batch2 saif
batch3 omer
batch4 mohammed
[root@ip-172-31-37-233 saif]#
```

38) Delete specific lines based on a pattern or line number.

```
saif 630000000 2 500
omer 5000000 2 600
qayyum 40000 2 700
[root@ip-172-31-37-233 saif] # sed '/fees/d' file.txt
saif 630000000 2 500
omer 5000000 2 600
qayyum 40000 2 700
[root@ip-172-31-37-233 saif] # sed '/name/d' file.txt
saif 630000000 2 500
omer 5000000 2 600
qayyum 40000 2 700
[root@ip-172-31-37-233 saif]# sed '/qayyum/d' file.txt
name mobile room fees
saif 630000000 2 500
omer 5000000 2 600
[root@ip-172-31-37-233 saif]# sed '/k -qayyum/d' file.txt
name mobile room fees
saif 630000000 2 500
omer 5000000 2 600
qayyum 40000 2 700
[root@ip-172-31-37-233 saif]# sed i '/qayyum/d' file.txt
sed: -e expression #1, char 1: expected \ after `a', `c' or `i'
[root@ip-172-31-37-233 saif]# sed -i '/qayyum/d' file.txt
[root@ip-172-31-37-233 saif]# cat file.txt
name mobile room fees
saif 630000000 2 500
omer 5000000 2 600
[root@ip-172-31-37-233 saif]#
```

39) Append or insert text before or after a specific pattern or line.

40) Print only specific lines from a file.

```
[root@ip-172-31-37-233 saif]# sed -n '2p' file.txt
saif 630000000 2 500
[root@ip-172-31-37-233 saif]# head -2 file.txt
name mobile room fees
saif 630000000 2 500
[root@ip-172-31-37-233 saif]# tail -2 file.txt
farooq
omer 5000000 2 600
[root@ip-172-31-37-233 saif]#
```

41) Copy file from linux to windows machine



(copy a file from windows to linux)

```
| (root@ip-172-31-37-233 tmp)| | 1s | systemd-private-91ef76f63ca3466997e74f4d8cclc26d-chronyd.service-kA7HVT | systemd-private-91ef76f63ca3466997e74f4d8cclc26d-dbus-broker.service-NNfaft | systemd-private-91ef76f63ca3466997e74f4d8cclc26d-gystemd-resolved.service-v9YA0Y | systemd-private-91ef76f63ca3466997e74f4d8cclc26d-systemd-resolved.service-91EDU | systemd-private-91ef76f63ca3466997e74f4d8cclc26d-gystemd-resolved.service-91EDU | systemd-private-91ef76f63ca3466997e74f4d8cclc26d-golicy-routes@ens5.service-SDJHW6 | systemd-private-91ef76f63ca3466997e74f4d8cclc26d-golicy-routes@ens5.service-SDJ
```

42) 5 use cases for AWK and 5 use cases for sed

AWK USE CASE

Print specific columns{awk '{print \$2, \$4}' filename}

Filter lines based on condition{awk '\$3 > 100' filename}

Calculate sum or average of a column{awk '{sum += \$2} END {print sum}' filename}

Find and print lines matching a pattern{awk '/ERROR/' filename}

Modify specific fields and print{awk '{\$3 = \$3 + 10; print}' filename}

SED USE CASE

Search and replace text{sed 's/apple/orange/g' filename}

Delete lines matching a pattern{sed '/DEBUG/d' filename}

Insert a line before a pattern{sed '/Title/i\Header line' filename}

Append a line after a pattern{sed '/End/a\Footer line' filename}

Print only specific lines{sed -n '10,20p' filename}

:drawing_pin: Note:

Please document all task executions along with a brief description based on your understanding, and share the .doc file in the #devops-cloud-status-14 channel. :memo::white_tick: