## 1. What type of commands you are using in day-to-day life?

### Theory:

In daily production support or system admin work, we commonly use:

- File and directory management → 1s, cd, pwd, mkdir, rm, cp, mv
- Process monitoring → ps, top, kill
- **Disk/memory monitoring** → df, du, free, uptime
- Search and filter → grep, find, awk, sed
- **Network** → ping, telnet, netstat, traceroute
- Archiving/Compression → tar, gzip, zip
- **Scheduling** → crontab
- **Permission** → chmod, chown, chgrp

#### **Interview Answer Example:**

"In my daily work, I mainly use commands like grep and find to locate logs, df and du to check disk usage, ps -ef and top to monitor running processes, and chmod/chown to manage file permissions. I also schedule maintenance scripts using crontab."

## 2. How to kill a process?

#### Theory:

Used to stop a running process.

#### Syntax:

#### Use Case:

If an application process (say Tomcat or MySQL) hangs or uses high CPU, L3 support uses this to terminate it.

# 3. How to give permission to a file?

## Theory:

chmod (change mode) command changes file permissions.

- Permissions:
  - r = read (4)
  - w = write (2)
  - x = execute (1)

## Syntax:

chmod 755 script.sh

- Owner: read/write/execute
- Group: read/execute
- Others: read/execute

## Symbolic way:

```
chmod u+x file.sh  # add execute for user
chmod g-w file.sh  # remove write for group
```

### **Interview Example:**

"I use chmod to make deployment scripts executable before running them, e.g., chmod +x deploy.sh."

# 4. crontab, find, grep, ps, df, du

Let's summarize each:

Command	Use	Example	Description
crontab	Schedule jobs	crontab -e	Edits cron jobs

find	Search files	<pre>find /var/log -name "*.log"</pre>	Finds files by name, size, date
grep	Search text patterns	<pre>grep "ERROR" /var/log/app.log</pre>	Searches content in files
ps	Show processes	ps -ef	Shows all running processes
df	Disk usage	df -h	Human-readable disk space summary
du	Directory usage	du -sh /var/log	Size of directory recursively

# 5. How to find old log files or temp files?

#### Command:

find /var/log -type f -mtime +30

-mtime +30 → modified more than 30 days ago
 For temp files:

find /tmp -type f -name "\*.tmp" -mtime +7

**Use Case:** Clean up disk space in production servers.

## 6. Find files of 12GB size named file.sh and delete

#### Command:

```
find / -type f -name "file.sh" -size 12G -exec rm -f {} \;
```

## **Explanation:**

- -type f: regular file
- -size 12G: exact 12GB

• -exec rm -f {}: delete the found file

## 7. tar, gzip, tail, head

Command	Function	Example
tar	Archive multiple files	tar -cvf backup.tar /var/log/
gzip	Compress a file	gzip backup.tar
tail	Show last lines of file	tail -n 20 app.log
head	Show first lines of file	head -n 10 app.log

#### **Use Case:**

- Use tail -f app.log to monitor live logs.
- Use tar and gzip for backup and compression.

# 8. grep, find, sed basics

```
\textbf{grep} \rightarrow \text{Search for patterns}
```

```
grep "ERROR" app.log
grep -i "error" app.log  # case-insensitive
grep -r "fail" /var/log  # recursive
```

#### find → Locate files

```
find /etc -name "*.conf"
```

### sed → Stream editor for substitution

```
sed 's/oldword/newword/g' file.txt
```

# 9. All UNIX commands with options (Reflex command)

## This usually means you should know command behavior instantly — e.g.:

Task	Command
List hidden files	ls -la
Copy file	cp file1 file2
Move file	mv old new
Remove directory	rm -rf dirname
Create empty file	touch file.txt
Display file size	ls -lh file.txt
Check current directory	pwd
View file	<pre>cat file.txt, less file.txt</pre>

# 10. find command (deep dive)

## Syntax:

find <path> [criteria] [action]

## **Examples:**

• Find by name:

find /home -name "test.txt"

• Find by size:

find /home -size +100M

• Find modified in last 1 day:

find /var/log -mtime -1

• Delete directly:

find /tmp -type f -mtime +7 -delete

## 11. awk commands

**Theory:** Pattern scanning and text processing tool.

## **Examples:**

```
awk '{print $1}' file.txt  # print first column
awk -F, '{print $2,$3}' file.csv  # print 2nd and 3rd field using
comma delimiter
awk '/error/ {count++} END {print count}' app.log  # count "error"
occurrences
```