

Linux Command Revision Article -1

Follow – Krishan Bhatt 

What is grep?

- **Answer:** A command-line utility for searching plain-text data for lines that match a regular expression.
- Example:
`grep "error" /var/log/syslog`

What is find?

- **Answer:** A command used to search for files and directories in a directory hierarchy.
- Example:
`find /home/user -name "*.txt"`

What is awk?

- **Answer:** A powerful programming language for pattern scanning and processing.
- Example:
`awk '{print $1, $3}' file.txt`

What is sed?

- **Answer:** A stream editor used for filtering and transforming text.
- Example:
`sed 's/old_text/new_text/' file.txt`

What is chmod?

- **Answer:** A command used to change file permissions.
- Example:
`chmod 755 script.sh`

What is chown?

- **Answer:** A command used to change the owner and group of a file or directory.
- Example:
`chown user:group file.txt`

What is tar?

- **Answer:** A command to archive files, typically used for creating .tar or .tar.gz files.

- Example:

```
tar -czvf archive.tar.gz /path/to/dir
```

What is rsync?

- **Answer:** A utility for efficiently transferring and synchronizing files across systems.

- Example:

```
rsync -avz /local/dir user@remote:/path
```

What is top?

- **Answer:** A command-line utility for displaying real-time information about running processes.

- Example:

```
top
```

What is htop?

- **Answer:** An interactive process viewer, similar to top, but with more features and a user-friendly interface.

- Example:

```
htop
```

What is df?

- **Answer:** A command to display the amount of free and used disk space on file systems.

- Example:

```
df -h
```

What is du?

- **Answer:** A command to estimate and display file space usage.

- Example:

```
du -sh /path/to/dir
```

What is ps?

- **Answer:** A command that displays information about active processes.

- Example:

```
ps aux | grep apache
```

What is kill?

- **Answer:** A command used to terminate processes by their process ID (PID).

- Example:

```
kill -9 1234
```

What is curl?

- **Answer:** A command-line tool for transferring data to or from a server, supporting various protocols like HTTP, FTP, and more.

- Example:

```
curl -O http://example.com/file.zip
```

What is wget?

- **Answer:** A command-line utility for downloading files from the web, supporting HTTP, HTTPS, and FTP protocols.

- Example:

```
wget http://example.com/file.tar.gz
```

What is ssh?

- **Answer:** A secure protocol used to access remote machines over a network, enabling secure communication.

- Example:

```
ssh user@remote_host
```

What is ssh-keygen?

- **Answer:** A tool to generate SSH key pairs for secure authentication to remote servers without using passwords.

- Example:

```
ssh-keygen -t rsa -b 2048
```

What is ls?

- **Answer:** A command to list files and directories in a specified directory.

- Example:

ls -la

What is make?

- **Answer:** A build automation tool used to compile and manage dependencies in software projects.

- Example:

make

What is exit?

- **Answer:** A command used to exit from the current terminal session or shell.

- Example:

exit

What is screen?

- **Answer:** A terminal multiplexer that allows users to manage multiple terminal sessions from a single window.

- Example:

screen

What is systemctl?

- **Answer:** A command used to control the systemd system and service manager, including starting, stopping, and checking services.

- Example:

systemctl restart apache2

What is locate?

- **Answer:** A command to find the location of files quickly by searching a pre-built index.

- Example:

locate file.txt

What is xclip?

- **Answer:** A command used to copy and paste data to and from the clipboard in Linux.
- Example:
`echo "Hello World" | xclip -selection clipboard`

What is file?

- **Answer:** A command used to determine the type of a file based on its contents.
- Example:
`file document.pdf`

What is lsof?

- **Answer:** A command that lists all open files and the processes that opened them.
- Example:
`lsof -i :80`

What is cron?

- **Answer:** A time-based job scheduler in Unix-like operating systems, used to schedule jobs to run at specific times.
- Example:
`crontab -e`

What is at?

- **Answer:** A command used to schedule one-time tasks to be run at a specific time.
- Example:
`echo "bash /path/to/script.sh" | at 12:00`

What is nmcli?

- **Answer:** A command-line interface to manage network connections in Linux, primarily for systems using NetworkManager.
- Example:
`nmcli device status`

What is strace?

- **Answer:** A debugging tool that traces system calls made by a program and the signals it receives.

- Example:
`strace -p 1234`

What is netstat?

- **Answer:** A command that displays network connections, routing tables, and network interface statistics.
- Example:
`netstat -tuln`

What is iostat?

- **Answer:** A command that reports CPU and I/O statistics, helping analyze system performance.
- Example:
`iostat -x 5`

What is ufw?

- **Answer:** A command-line tool for managing the Uncomplicated Firewall (UFW) in Ubuntu-based distributions.
- Example:
`ufw enable`

What is dig?

- **Answer:** A command-line tool for querying DNS (Domain Name System) to gather domain and IP address information.
- Example:
`dig example.com`

What is watch?

- **Answer:** A command that runs a program periodically, showing output to the user, which is useful for monitoring.
- Example:
`watch -n 5 df -h`

What is dmesg?

- **Answer:** A command used to examine or control the kernel ring buffer, displaying messages related to system hardware and booting.

- Example:
`dmesg | grep error`

What is vmstat?

- **Answer:** A command used to report virtual memory statistics, including system processes, memory, paging, block IO, and more.
- Example:
`vmstat 1`

What is reboot?

- **Answer:** A command used to restart the system.
- Example:
`reboot`

What is uptime?

- **Answer:** A command that shows how long the system has been running since the last reboot, along with system load averages.
- Example:
`uptime`

What is who?

- **Answer:** A command that shows who is logged into the system.
- Example:
`who`

What is mount?

- **Answer:** A command used to mount file systems into the Linux file system hierarchy.
- Example:
`mount /dev/sdb1 /mnt`

What is cat?

- **Answer:** A command used to concatenate and display file contents.
- Example:
`cat file.txt`

What is passwd?

- **Answer:** A command used to change a user's password.

- Example:

`passwd username`