

Assignment on Linux Command

1. ls:

Lists directory contents.

Example: `ls /home` lists files and directories in `/home`.

2. cd:

Changes the current directory.

Example: `cd /var/log` changes to the `/var/log` directory.

3. pwd:

Prints the current working directory.

Example: `pwd` outputs the current directory path.

4. mkdir:

Creates a new directory.

Example: `mkdir new_folder` creates a directory named `new_folder`.

5. rmdir:

Removes an empty directory.

Example: `rmdir old_folder` removes the directory `old_folder`.

6. rm:

Removes files or directories.

Example: `rm file.txt` deletes `file.txt`; `rm -r dir` deletes directory `dir` and its contents.

7. cp:

Copies files or directories.

Example: `cp source.txt destination.txt` copies `source.txt` to `destination.txt`.

8. mv:

Moves or renames files or directories.

Example: `mv oldname.txt newname.txt` renames `oldname.txt` to `newname.txt`.

9. touch:

Creates an empty file or updates the timestamp of an existing

file. Example: `touch newfile.txt` creates an empty file `newfile.txt`.

10. cat:

Concatenates and displays file content.

Example: `cat file.txt` displays the contents of `file.txt`.

11. less:

Views file content one screen at a time.

Example: `less largefile.txt` allows scrolling through `largefile.txt`.

12. `head`:

Displays the first few lines of a file.

Example: `head -n 10 file.txt` shows the first 10 lines of `file.txt`.

13. `tail`:

Displays the last few lines of a file.

Example: `tail -n 10 file.txt` shows the last 10 lines of `file.txt`.

14. `grep`:

Searches for text within files.

Example: `grep "pattern" file.txt` searches for "pattern" in `file.txt`.

15. `find`:

Searches for files and directories.

Example: `find / -name filename` searches for `filename` starting from the root directory.

16. `chmod`:

Changes file permissions.

Example: `chmod 755 script.sh` sets `script.sh` permissions to `rwxr-xr-x`.

17 `chown`:

Changes file owner and group.

Example: `chown user:group file.txt` changes the owner and group of `file.txt`.

18 `ps`:

Displays currently running processes.

Example: `ps aux` shows detailed information about all running processes.

19 `kill`:

Terminates a process by PID.

Example: `kill 1234` terminates the process with PID 1234.

20 `top`:

Displays real-time system resource usage.

Example: `top` shows an interactive view of system processes and resource usage.

21 `df`:

Reports file system disk space usage.

Example: `df -h` displays disk usage in a human-readable format.

22 du:

Estimates file and directory space usage.

Example: `du -sh /home/user` shows the total space used by `/home/user`.

23 ifconfig (or ip addr):

Configures network interfaces.

Example: `ifconfig` shows network interface configurations; `ip addr` shows detailed IP address info.

24 ping:

Tests network connectivity.

Example: `ping google.com` sends ICMP echo requests to `google.com`.

25 wget:

Downloads files from the web.

Example: `wget http://example.com/file.zip` downloads `file.zip` from the specified URL.

26 curl:

Transfers data from or to a server.

Example: `curl http://example.com` fetches the content from `example.com`.

27 tar:

Archives files.

Example: `tar -czvf archive.tar.gz /path/to/directory` creates a compressed archive of the directory.

28 sudo:

Executes a command with superuser privileges.

Example: `sudo apt-get update` runs the apt-get update command as the superuser.

29 apt-get (or yum for RHEL/CentOS):

Manages packages (Debian-based systems).

Example: `sudo apt-get install package` installs a package; yum is used similarly on RPM-based systems.

30 ssh:

Connects to a remote machine via SSH.

Example: `ssh user@hostname` connects to hostname as user.