**SUDO COMMANDS**

Argument Description Example

-u Run the command as a specific user. sudo -u user command

-g Run the command as a specific group. sudo -g group command

-b Run the command in the background. sudo -b command

-p Use a custom prompt. sudo -p 'password: ' command

-k Invalidate the user’s cached credentials. sudo -k command

-l List the commands the user can execute. sudo -l

-v Validate the user’s cached credentials. sudo -v

-h Display help message. sudo -h

-V Display version information. sudo -V

-i Launch a new shell as the specified user. sudo -i -u user

-s Launch a new shell with the user’s environment. sudo -s

-H Set the HOME environment variable to the home directory of the target user. sudo -H command

**APT COMMANDS**

sudo apt update #updating the system

sudo apt upgrade #upgrading system

sudo apt full-upgrade -y #Full upgrade

**HARDWARE CHECKING COMMANDS**

lscpu: See CPU information.

lsblk: View block device information.

lspci -tv: Display PCI devices in a tree-like diagram.

lsusb -tv: Show USB devices in a tree-like diagram.

lshw: List hardware configuration.

cat /proc/cpuinfo: Detailed CPU information.

cat /proc/meminfo: System memory details.

cat /proc/mounts: Mounted file systems.

free -h: Display free and used memory.

sudo dmidecode: BIOS hardware information.

hdparm -i /dev/[device\_name]: Disk data information.

hdparm -tT /dev/[device\_name]: Conduct a read speed test.

badblocks -s /dev/[device\_name]: Test for unreadable blocks.

fsck /dev/[device\_name]: Run disk check on an unmounted disk or partition.

**SEARCHINNG COMMANDS**:

find [path] -name [search\_pattern]: Find files and directories.

find [path] -size [+100M]: Search for larger files.

grep [search\_pattern] [file\_name]: Search within files.

grep -r [search\_pattern] [directory\_name]: Recursively search.

locate [name]: Locate files and directories.

which [command]: Search for command paths.

**USER AND GROUPS**

id

last

who

w

finger [user\_name]

sudo useradd

[user\_name]

sudo adduser

[user\_name]

sudo userdel [user\_name]

sudo usermod -aG

[group\_name]

[user\_name]

passwd

sudo passwd [user\_name]

sudo groupadd

[group\_name]

sudo groupdel

[group\_name]

sudo groupmod -n

[new\_name] [old\_name]

sudo [command]

su - [user\_name]

chgrp [group\_name] [file/

directory]

See details about the

active users.

Show the last system

logins.

Display who is currently

logged into the system.

Show which users

are logged in and their

activity.

Show user information.

Create a new user account.

Create a new user account

through the adduser

command interface.

Delete a user account.

Modify user

information (add a user to

a group).

Change the current user's

or another user's

password.

Add a new group.

Delete a group.

Modify a user group

(change group name).

Temporarily elevate user

privileges to superuser or

root.

Switch the user account or

become a superuser.

Change file or directory

groups

**FILES**

mkdir [directory\_name]

rm [file\_name]

rm -r [directory\_name]

rm -rf [directory\_name]

cp [source\_file]

[destination\_file]

cp -r [source\_directory]

[destination\_directory]

mv [source\_file]

[destination\_file]

ln -s [path]/[file\_name]

[link\_name]

touch [file\_name]

cat [file\_name]

cat [source\_file] >>

[destination\_file]

head [file\_name]

tail [file\_name]

more [file\_name]

less [file\_name]

nano [file\_name]

vi [file\_name]

vim [file\_name]

gpg -c [file\_name]

gpg [file\_name].gpg

wc -w [file\_name]

ls | xargs wc

cut -d [delimiter]

[file\_name]

[data] | cut -d [delimiter]

shred -u [file\_name]

diff [first\_file]

[second\_file]

source [file\_name][command] | tee

[file\_name] >/dev/null

Create a new directory.

Remove a file.

Remove a directory

recursively.

Recursively remove a

directory without requiring

confirmation.

Copy the contents of one

file to another file.

Recursively copy a

directory to a second

directory.

Move or rename files or

directories.

Create a symbolic link to a

file.

Create a new file.

Show the contents of a file.

Append file contents to

another file.

Show the first ten lines of a

file.

Show the last ten lines of a

file.

Display contents of a file

page by page.

Show the contents of a file

with navigation.

Open or create a file using

the nano text editor.

Open or create a file using

the Vi/Vim text editor.

Encrypt a file.

Decrypt an

encrypted .gpg file.

Show the number of

words, lines, and bytes in a

file.

List the number of lines/

words/characters in each

file in a directory.

Cut a section of a file and

print the result to standard

output.

Cut a section of piped data

and print the result to

standard output.

Overwrite a file to prevent

its recovery, then delete it.

Compare two files and

display differences.

Read and execute the file

content in the current shell.

Store the command