

Process Management	
PS	Show process information
Show running processes	ps -ef
Show running processes hide threads	pstree -Tp
Show detailed information about a process	pgrep -a process_name
KILL	Sends a signal to a process usually to stopping a process
Terminate a program using SIGTERM	kill pid
List available signal names	kill -l
Terminate a program using SIGHUP	kill -1 pid
Terminate a porgram using SIGINT	kill -2 pid
Signal the operating system to immediately terminate a program	kill -9 pid
Pause a program until it resumes with the SIGCONT signal	kill -17 pid
Cancel a running process	Ctrl + c
Pause a running process	Ctrl + z
Move process to background	bg %job_id
Move process to foreground	fg %job_id
Remove job from the shell	command & disown
Show status of all jobs	jobs
Show status of a particular job	jobs job_id
Show status and process id's of all jobs	jobs -l
Show process id's of all jobs	jobs -p

Permission	
CHOWN	Change user and group ownership of files and folders
Change the owner user of a file or folder	chown username path/to/file
Change the owner user and group of a file or folder	chown user:group path/to/file
Recursively change the owner of a folder and its contents	chown -R user path/to/folder
Change the owner of a symbolic link	chown -h user path/to/symlink
Change the owner of a file or folder to match a reference file	chownreference=path/to/r- eference_filepath/to/file
CHGRP	Change group ownership of files and folders.
Change the owner of a file or folder	chgrp group path/to/file
Recursively change the owner of a folder and its contents	chgrp -R group path/to/folder
Change the owner of a symbolic link	chgrp -h user path/to/symlink
Change the owner of a file/folder to match a reference file	chgrpreference=path/to/reference_file path/to/file
CHMOD	Change the access permissions of a file or directory
Give the user who owns a file the right to e[x]ecute it	chmod u+x file
Remove executable rights from the group	chmod g-x file
Give the user rights to read and write to a file or directory	chmod u+rw file



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Permission (cont)	
Give all users rights to read and execute	chmod a+rx file
Give others (not in the file owner's group) the same rights as the group	chmod o=g file
User, Group, Other	'u'   'g'   'o'
Read, Write, Execute	'r'   'w'   'x'
'+'   '-'   '='	Add, Revoke, Set
Octal	0 = None, 1 = execute only, 2 = write only, 3 = write and execute, 4 = read only, 5 = read and execute, 6 = read and write, 7 = read, write and execute (full permission)

Archive	
TAR	Create, Compress, Extract files
Create new archive from files	tar -cf name file1 file2 file3
Append files to an existing archive	tar -rf archive_name files/to/add
List archived files	tar -tvf archive_name
Extract all files	tar -xf archive_name
Extract an archive to specified directory	tar -xf archive_name -C path/t-o/dir
Create a gzipped archive	tar -czf name file1 file2 file3
Create a bzipped archive	tar -cjf archive_name
Extract gzipped archive	tar -xzf archive_name
Extract bzipped archive	tar -xjf archive_name
Create a compressed archive, using archive suffix to determine the compression	tar -caf archive_name.tar.xz, archive_name.gz, archive_n- ame.bz file1 file2 file3

Storage Media	
Show all mounted filesystems	mount
Mount a device to a directory	mount path/to/dev path/to/dir
Mount all the filesy- stems defined in /etc/fstab	mount -a
Unmount a filesystem	umount path/to/device
Fsck (Dry Run)	fsck -N /path/to/dev
Check for filesystem errors	fsck path/to/dev
Fix detected errors	fsck -y /path/to/dev
Show partitions	fdisk -l
Run fdsik	fdisk /dev/target/device
Create filesystem	mkfs.ext2 /path/to/dev [ext3, ext4, btrfs, ntfs]
Create filesystem with a volume-label	mkfs.ntfs -L name /path/to/dev
Create filesystem with specific UUID	mkfs.ntfs -U UUID /path/to/dev
Mkfs (Dry Run)	mkfs.ext4 -vv
Create a bootable usb media from a iso image	dd bs=8M if=/path/to/iso of=/dev/usb_drive conv=fsync oflag=direct status=progress
Secure Shell Host (SS	SH)
SSH	Secure Shell is a protocol used to securely log onto remote systems. It can be used for logging or executing commands on a remote server.
Connect to a remote server	ssh username@remote_host
Connect to a remote server with a specific identity (private key)	ssh -i path/to/key_file username@remote- _host
Connect to a remote server using a specific port	ssh -p 23 username@remote_host
Execute a command on a remote server	ssh remote_host "example_command"





Secure Shell Host (SSH) (cont)	
Compress all data if the connection is slow	ssh -C username@remote- _host
Print debug information	ssh -v username@remote- _host
Enable X11 forwarding	ssh -X username@remote- _host
Generate SSH keys	ssh-keygen
Copy puplic SSH key to a server	ssh-copy-id ip_adress
SCP	Secure copy files over ssh
Copy a local file to a remote host	scp path/to/file username@-remote_host:path/to/save
Copy a file from a remote host to your local directory	scp username@remote_ho- st:path/to/remote_file path/l- ocal/dir
Recursively copy the contents of a directory on a remote host to a local directory	scp -r path/to/local_dir remote_host:path/to/save
Use a specific ssh private key for authentication with the remote host	scp -i ~/.ssh/private_key local_file remote_host:path/t- o/save
Use a speciific port	scp -P 23 path/to/file username@remote_host:- path/to/save
Copying multiple files to a remote host	scp file1 file2 username@- remote_host:path/to/save
Copying multiple file from remote host	scp username@localh- ost:path/to/{file1, file2}

Kernel module handling (cont)	
MODPROBE	Add and remove modules form the Linux Kernel
Insert kernel modules	modprobe -a modulename1 modulename2
Remove kernel module	modprobe -r modulename1 modulename2
Prints current configuration	modprobe -c
Modprobe (Dry Run)	modprobeshow
Print messages about what the program is doing	e modprobe -v
File Searching	
FIND It can be u	used to find files and directories and

File Searching	
FIND	It can be used to find files and directories and perform subsequent operations on them
Search by name case sensitive	find /dir -name "search_term"
Search by name case insensitive	finde /dir -iname "search_term"
Search by file type d=dir, f=file	find /dir -type f
Search by wildcard	find /dir "search_term", "search_term"
Search and execute a command	find /dir -exec command {} \;
PLOCATE	find files by name
Search for files	plocate search_term

Kernel module handling	
Show active kernel modules	Ismod
Show information about a specific kernel module	modinfo modulename
Insert a module into the Linux Kernel	insmod modulename
Remove a module from the Linux Kernel	rmmod modulename
Generate a list of dependency description of kernel modules	depmod

Tmux	
TMUX	Terminal Multiplexer (prefix ctrl + a)
Enter copy mode	prefix + pageup
Choose a session from a list	prefix + s
Choose a window from a list	prefix -w
Show a clock	prefix -t
Zoom active pane rather maximize	prefix - z



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Tmux (cont)	
Resize the pane up by 5	prefix + alt + up (arrow keys)
Resize the pane down by 5	prefix + alt + down (arrow keys)
Resize the pane left by 5	prefix + alt + left (arrow keys)
Resize the pane right by 5	prefix + alt + right (arrow keys)
Break the pane out and maximize to fullscreen	prefix + shift +!
Create a new window	prefix + c
Switch the attached client to the next session	prefix + shift + )
Switch the attached client to the previous session	prefix + shift + (
Select window	prefix + 0 to 9

Kitty	
KITTY	Terminal emulator (prefix ctrl + shift)
New window	prefix + enter
Select window	prefix + 1
Open new tab	prefix + t
Close tab	prefix + t
Next tab	prefix + right (arrow key)
Previous tab	prefix + left (arrow key)
Set tab title	prefix + alt + t
Rezise window or pane	prefix + r
Edit kitty config file	prefix + F2

User account administration	
Create a user account	useradd username
Modify a user account	usermod username
Delete a user account	deluser username
Change user password	passwd username

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Miscellaneous	
ALIAS	Creates aliases words that are replaced by a command string
Create a generic alias	word="command"
Remove an aliased command	unalias word
List all aliased words	alias -p
View the command associated to a given alias	alias word
CAL	Prints calendar information
Display calendar for the current month	cal
Display calendar for a specific month	cal month_number
Display a 12 month calendar for the current year	cal -y
ECHO	Display a line of text
Print a text message	echo example_text
Redirect input to a file	echo example_text >> filename
Verify ISO files with sha1sum	echo "hash" isoname   sha1sum -c
FILE	Determine file type and give a description of the type of the specified file
Determine file type	file path/to/file
Determine the mime encoding type of a file	file -i path/to/file
Try to look inside compressed files	file -z path/to/file
Try to look inside compressed files but report information about the contens	file -Z path/to/file
MAN	Display manual pages
Dsiplay man page for a command	man command



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