

Directory / Navigation	Searching (cont)	File Manipulation
ls List files and directories	updatedb Updates locate's index	cat Show the contents of the file
ls -a List all files and directories (shows hidden files)	grep hello file.txt Searches the term in a file	cat -n Number all output lines
ls -l List files and directories in long format (shows permissions)	grep hello *.txt Searches hello in every .txt file	mkdir Create a new directory
ls -lh List the sizes in human readable	which command Search the command path in the \$PATH environment variable	mkdir -p dir/dir/dir Create a dir with child
ls -r Reverse Listing	whereis command Find the source, binary, and manual page for a command	mkdir -p parent/{child, child2} Create a dir with childs
ls -t Sort by modified time		mkdir -p parent/{dir1,{child1,child2},dir2} Create a parent dir with 2 dirs 2 childs
ls -S Sort by file size (can be used with -r)		rm Remove a file
ls -R Recursive listing		rm -r Remove a directory
find Recursive listing		rm -rf Remove a directory without confirmation
.		rm -rf . Remove the current directory
tree Recursive listing		cp file file Copy content of the file to another file
cd Change Directory		cp -r dir dir Copy content of the dir to another dir
cd Move up one directory		mv file dir Move or rename file or dirs
..		touch Create a new file
cd Move up two directories / or more		cat file >>file Append file contents to another file
../..		>file.txt Truncates the content after ctrl+c. If not pressed and stay in continuation prompt, all input goes to the file like echo
cd - Change to previous directory		
cd Change directory to home		
~		
cd / Change directory to root directory		
pwd Print working directory		
Searching	System Management	
find Searches the file in current directory	uname -a See kernel release information	
find / -name "file" Searches the file starting from root directory	uptime Display how long the system has been running, including the load average	
find / -iname "file" Searches the file starting from root directory regardless of case sensitivity	hostname View system hostname.	
find -size +100M See files and directories larger than a specified size in a directory	date See current time and date	
locate Searches the file in whole disk	timedatectl See date and time zone	
	w List logged-in users.	
	whoami See which user you are using	
	finger Show information about a particular user	
	shutdown [hh:mm] Schedule a system shutdown	
	shutdown now Shut down the system immediately	
	reboot Restart the OS	
	dmesg Show bootup messages.	



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File Manipulation (cont)

head	Show the first ten lines of a file
tail	Show the last ten lines of a file
head/tail -n 5 file	Show the last/first five lines of a file
tail -f	Streams the last 10 lines
tail -f -s 2	Sleep for approximately 2 seconds
more	Display contents of a file page by page
less	Show the contents of a file with navigation
gpg -c file	Encrypt a file
gpg file.gpg	Decrypt an encrypted .gpg file
wc	Shows line, word and byte amount
wc -l	Shows number of lines
wc -w	Shows number of words
wc -c	Shows number of bytes (file byte)
cut	Learn the usage of this command
shred	Overwrite a file to prevent its recovery
shred -u	Overwrite a file to prevent its recovery, then delete it

File Manipulation (cont)

shred -n 3	Overwrite a file 3 times to prevent its recovery
ls tee list.txt / ls>list.txt tee	List it and writes the output to list.txt
echo "hello"	Prints hello to terminal
echo "hello"> file.txt	Writes hello to the file.txt
echo "wor- ld">>file.txt	Adds world to file.txt without removing the file content

Processes

ps	List active processes.
ps aux	List active processes in detail
pstree	Show processes in a treelike diagram.
top	See all running processes.
kill PID	Terminate a Linux process under a given ID
kill -9 PID	Force terminate a Linux process under a given ID
pkill [process_ name]	Terminate a process under a specific name
killall [process_ name]	Terminate all processes with a given label
pidof [process_ name]	Show the PID of a process.
nohup [command] &	Run a Linux process in the background even ssh termination

Hardware Information

lsblk	See information about block devices
lsusb	Display USB devices
lscpu	See CPU information.
lspci	Show PCI devices
cat /proc/- cpuinfo	Show detailed CPU information
cat /proc/- meminfo	View detailed system memory information
cat /proc/- mounts	See mounted file systems
free -h	Display free and used memory
sudo dmiencode	Show hardware information from the BIOS

File Compression

tar cf [archive.tar] [file/ directory]	Archive an existing file or directory.
tar xf [archive.tar]	Extract an archived file.
tar czf [archive.tar.gz]	Create a .gz compressed tar archive.
gzip [file_name] gunzip [file_name.gz]	Compress or decompress .gz files.
bzip2 [file_name] bunzip2 [file_name. bz2]	Compress or decompress .bz2 files.

Shell Commands

alias [alias- name]=[comm- and']	Create an alias for a command.
man [command]	Display a built-in manual for a command.
history	Print the command history used in the terminal.



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Shell Commands (cont)

nano ~/bashrc Edit bash file

source ~/bashrc Compile bash file



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