

Directory / Navigation

ls	List files and directories
ls -a	List all files and directories (shows hidden files)
ls -l	List files and directories in long format (shows permissions)
ls -lh	List the sizes in human readable
ls -r	Reverse Listing
ls -t	Sort by modified time
ls -S	Sort by file size (can be used with -r)
ls -R	Recursive listing
find .	Recursive listing
tree	Recursive listing
cd	Change Directory
cd ..	Move up one directory
cd ../..	Move up two directories / or more
cd -	Change to previous directory
cd ~	Change directory to home
cd /	Change directory to root directory
pwd	Print working directory

Searching

find	Searches the file in current directory
find / -name "file"	Searches the file starting from root directory
find / -iname "file"	Searches the file starting from root directory regardless of case sensitivity
find -size +100M	See files and directories larger than a specified size in a directory
locate	Searches the file in whole disk

Searching (cont)

updatedb	Updates locate's index
grep hello file.txt	Searches the term in a file
grep hello *.txt	Searches hello in every .txt file
which command	Search the command path in the \$PATH environment variable
whereis command	Find the source, binary, and manual page for a command

System Management

uname -a	See kernel release information
uptime	Display how long the system has been running, including the load average
hostname	View system hostname.
date	See current time and date
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.

File Manipulation

cat	Show the contents of the file
cat -n	Number all output lines
mkdir	Create a new directory
mkdir -p dir/dir/dir	Create a dir with child
mkdir -p parent/{child, child2}	Create a dir with childs
mkdir -p parent/{dir1/{child1, child2}, dir2}	Create a parent dir with 2 dirs 2 childs
rm	Remove a file
rm -r	Remove a directory
rm -rf	Remove a directory without confirmation
rm -rf .	Remove the current directory
cp file file	Copy content of the file to another file
cp -r dir dir	Copy content of the dir to another dir
mv file dir	Move or rename file or dirs
touch	Create a new file
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



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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 dmidecode	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- e.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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