

### File Commands

ls – directory listing

ls -al – formatted listing with hidden files

cd [directory] - change directory to directory

pwd – Print Working Directory

mkdir [directory] – create a directory named directory

rm [file\_name] – delete filename

rm -r [directory] – delete directory recursively

rm -f [file\_name] – force remove file

rm -rf [directory] – force remove directory directory recursively \* **Use with care**

cp [file1 file2] – copy file1 to file2

mv [file1 file2] – rename or move file1 to file2

ln -s [file\_name link] – create symbolic link to file

touch [file\_name] – create or update file

cat > [file\_name] – places standard input into file

more [file\_name] – output the contents of file

head [file\_name] – output the first 10 lines of file

tail [file\_name] – output the last 10 lines of file

tail -f [file\_name] – output the contents of file as it grows, starting with the last 10 lines

chmod [octal file\_name] change the permissions of file to octal

### Compression

tar cf [file\_name.tar files] – create a tar named file\_name.tar containing files

tar xf [file\_name.tar] – extract the files from file\_name.tar

tar czf [file\_name.tar.gz files] – create a tar file with Gzip compression

tar xzf [file\_name.tar.gz] – extract a tar using Gzip

tar xjf [file\_name.tar.bz2] – extract a tar using Bzip2

gzip [file\_name] – compresses file and renames it to file\_name.gz

gzip -d [file\_name.gz] – decompresses file\_name.gz back to file

### System Information

date – show the current date and time

cal – show this month's calendar

uptime – show current uptime

w – display who is online

whoami – who you are logged in as

finger user – display information about user

uname -a – show kernel information

cat /proc/cpuinfo – cpu information

cat /proc/meminfo – memory information

man command – show the manual for command

df – show disk usage

du – show directory space usage

free – show memory and swap usage

### System Information (cont)

whereis [application\_name] – show possible locations of binary, source, and manual page files for a command

which [application\_name] – show which application will be run by default

### Searching

grep [pattern files] – search for pattern in files

grep -r [pattern directory] – search recursively for pattern in directory

[command] | grep [pattern] – search for pattern in the output of command

locate [file\_name] – find all instances of file

### Process Management

ps – (Process Status) displays your currently active processes

top – (Table of Processes) display all running processes

kill [pid] – kill process id pid

killall [process\_name] – kill all processes named [process\_name]

bg – lists stopped or background jobs; resume background job

fg – brings the most recent job to foreground

fg [n] – brings job id to the foreground



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Published 4th December, 2019.  
Last updated 4th October, 2020.  
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### Network

ping *[host]* – ping host and output results

whois *[domain]* – get whois information for domain

dig *[domain]* – get DNS information for domain

dig -x *[host]* – reverse lookup host

wget *[file at URL]* – download file from URL

wget -c *[file at URL]* – continue a stopped download

ssh *[user@host]* – connect to host as user

ssh -p *[port user@host]* – connect to host on port port as user

ssh-copy-id *[user@host]* – add your key to host for user to enable a keyed or login without password

### Shortcuts

Ctrl+C – halts the current command

Ctrl+Z – stops the current command; resume with fg in the foreground or bg in the background

Ctrl+D – log out of current session, similar to exit

Ctrl+W – erases one word in the current line

Ctrl+U – erases the whole line

Ctrl+R – type to bring up a recent command

!! - repeats the last command

exit – log out of current session



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