System Commands

uname -a	Show system and kernel
head -n1 /etc/issue	Show distribution
whoami	Show your username
man *command*	Show manual for *command*
date	Show system date
date --utc	Show system date in UTC

Magic Keys

CTRL-ALT-BKSP

Restart X display if frozen

ALT-**SysRq**+R+S+E+I+U+B

Restart Ubuntu safely when it is frozen

ALT-**SysRq**+R+S+E+I+U+O

Safely shutting down Ubuntu when it is frozen

The minus in between keys indicates they should be held down together. The plus indicates that the keys should be pressed in sequence. If keys are in **bold** then they should be held down during the entire sequence. More information.

Other useful commands

watch -n 5 'ntpq -p'

Issue the 'ntpq -p' command every 5 seconds and display output

Package Management

apt-get update

Refresh available updates.

apt-get upgrade

Upgrade all packages.

apt-get install *pkg*

Install *pkg*.

apt-get purge *pkg*

Uninstall *pkg*.

apt-get autoremove

Remove obsolete packages.

apt-get -f install

Try to fix broken packages.

dpkg -i *pkg.deb*

Install *pkg* from a deb file.

apt-get build-dep *pkg*

Install dependencies for *pkg* so that it can be built from source.

apt-get -y *cmd*

Automatic yes response to prompts.

These commands should be run with sudo.

File Operations

touch *file1*

Create *file1*

cat *file1 file2*

Concatenate files and output

less *file1*

View and paginate *file1*

ln -s */path/to/src /path/to/dst*

Create symbolic link at *dst* to *src*

cp *file1 file2*

Copy *file1* to *file2*

mv *file1 file2*

Move *file1* to *file2*

rm *file1*

Delete *file1*

head *file1*

Show first 10 lines of *file1*

tail *file1*

Show last 10 lines of *file1*

tail -f *file1*

Output last lines of *file1* as it changes

wc *file1*

Display the number of lines in *file1*

file *file1*

Get type of *file1*

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File Compression

tar -czvf *file1.tgz file1*	
	Tar and gzip *file1*
tar -xvzf *file1.tgz*	
	Decompress a file that was tared and gzipped
Remove the *z* flag if the file is tarred without being gzipped	

References

https://www.cheatography.com/davechild/cheat-sheets/linux-command-line/

https://nsrc.org/workshops/2016/rwnog-nmm/references/ubunturef.pdf

http://linoxide.com/guide/linux-cheat-sheet.png

Directory Operations

pwd	Show current directory
mkdir *dir*	Make directory *dir*
cd *dir*	Change directory to *dir*
cd ..	Go up a directory
cd -	Go to previous directory
ls	List files
rm -r *dir*	Delete *dir* recursivly

ls Options

-a	Show all (including hidden)
-l	Long listing format
-R	Recursive list
-t	Sort by last modified
-S	Sort by file size
-h	Human readable file sizes (use with -l)

Bash Shortcuts

CTRL-c	Stop current command
CTRL-a	Go to start of line
CTRL-e	Go to end of line
CTRL-r	Search history
CTRL-z	Sleep program
bg	Send running process into the background
fg	Foreground a backgrounded process
!!	Repeat last command
!*abc*	Run last command starting with *abc*
^*abc*^123	Run previous command, replacing *abc* with *123*

SSH Options

-D*1080*	
	Dynamic port forwarding via SOCKS on port *1080*
-o UserKnownHostsFile=/dev/null	
	Use an empty known hosts file
-o StrictHostKeyChecking=no	
	No strict host key checking
-X	
	Enable X11forwarding

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Not published yet.
Last updated 4th November, 2016.
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