

System Commands

<code>uname -a</code>	Show system and kernel
<code>head -n1 /etc/issue</code>	Show distribution
<code>whoami</code>	Show your username
<code>man command</code>	Show manual for <i>command</i>
<code>date</code>	Show system date
<code>date --utc</code>	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*



By **sdelliot**
cheatography.com/sdelliot/

Not published yet.
Last updated 4th November, 2016.
Page 1 of 2.

Sponsored by **CrosswordCheats.com**
Learn to solve cryptic crosswords!
<http://crosswordcheats.com>

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-sets/linux-command-line/](https://www.cheatography.com/davechild/cheat-sheets/linux-command-line/)

<https://nsrc.org/workshops/2016/rwnog-nmm/references/ubuntuuf.pdf>

<http://linuxide.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* recursively

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

`c`

`CTRL-A` Go to start of line

`a`

`CTRL-E` Go to end of line

`e`

`CTRL-R` Search history

`r`

`CTRL-Z` Sleep program

`z`

`bg` Send running process into the background

`fg` Foreground a backgrounded process

`!!` Repeat last command

`!abc` Run last command starting with *abc*

`^abc^` Run previous command, replacing *abc* with *123*

`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 X11 forwarding

C

By **sdelliot**
cheatography.com/sdelliot/

Not published yet.
Last updated 4th November, 2016.
Page 2 of 2.

Sponsored by **CrosswordCheats.com**
Learn to solve cryptic crosswords!
<http://crosswordcheats.com>