

Linux

File Commands

<code>ls</code>	Directory listing
<code>ls -al</code>	Formatted listing with hidden files
<code>cd dir</code>	Change directory to dir
<code>cd</code>	Change to home
<code>pwd</code>	Show current directory
<code>mkdir dir</code>	Create a directory dir
<code>rm file</code>	Delete file
<code>rm -d dir</code>	Delete directory dir
<code>rm -f file</code>	Force remove file
<code>rm -rf dir</code>	Force remove directory dir *
<code>cp file1 file2</code>	Copy file1 to file2
<code>cp -r dir1 dir2</code>	Copy dir1 to dir2; create dir2 if it doesn't exist
<code>mv file1 file2</code>	Rename or move file1 to file2 if file2 is an existing directory, moves file1 into directory file2
<code>ln -s file link</code>	Create symbolic link; link to file
<code>touch file</code>	Create or update file
<code>cat > file</code>	Places standard input into file
<code>more file</code>	Output the contents of file
<code>head file</code>	Output the first 10 lines of file
<code>tail file</code>	Output the last 10 lines of file
<code>tail -f file</code>	Output the contents of file as it grows, starting with the last 10 lines

System Information

<code>date</code>	Show the current date and time
<code>cal</code>	Show this month's calendar
<code>uptime</code>	How current uptime
<code>w</code>	Display who is online
<code>whoami</code>	Who you are logged in as
<code>finger user</code>	Display information about user
<code>uname</code>	Show kernel information
<code>cat /proc/cpuinfo</code>	Cpu information
<code>cat /proc/meminfo</code>	Memory information
<code>man command</code>	Show the manual for command
<code>df</code>	Show disk usage
<code>du</code>	Show directory space usage
<code>free</code>	Show memory and swap usage
<code>whereis app</code>	Show possible locations of app
<code>which app</code>	Show which app will be run by default

Process Management

<code>ps</code>	Display your currently active processes
<code>top</code>	Display all running processes

File Permissions

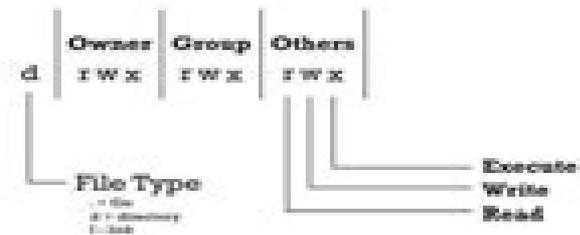
Chmod octal file – change the permissions of file to octal, which can be found separately for user, group, and world by adding:

4 – read (r)
2 – write (w)
1 – execute (x)

Examples:

`chmod 777` – read, write, execute for all
`chmod 755` – rwx for owner, rx for group and world
For more options, see `man chmod`.

Symbolic:	r- -w- -x		421
Binary:	100 010 001		000 = 0
Decimal:	4 2 1		001 = 1
			010 = 2
			011 = 3
Symbolic:	rwx r-x r-x		100 = 4
Binary:	111 101 101		101 = 5
Decimal:	7 5 5		110 = 6
Owner:	---		111 = 7
Group:	---		
Others:	---		Binary to Octal chart



Shortcuts

<code>Ctrl+C</code>	Halts the current command
<code>Ctrl+Z</code>	Stops the current command, resume with <code>fg</code> in the foreground or <code>bg</code> in the background
<code>Ctrl+D</code>	Log out of current session, similar to exit
<code>Ctrl+W</code>	Erases one word in the current line
<code>Ctrl+U</code>	Extract a tar using <code>tar xzf</code>
<code>Ctrl+B</code>	Type to bring up a recent command
<code>!!</code>	Repeats the last command
<code>Exit</code>	Log out of current session

Linux Reference Guide

Arturo Cuomo



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