

# Advanced Linux commands

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For more content follow: <https://github.com/Shubhamshende7>



The structure of command:

cmd option argument  
What? How? where?

ls(cmd) -a /etc

command	Description	Usecase
sudo su	superuser	sudo su
ls	list	ls <directory>
cd	Change directory To go back	cd <directory> cd ~
mkdir	Create a directory	mkdir <dir name>
rmdir	Remove directory	rmdir <directory>
touch	create file	touch file{1,2,3,4}
cat	display , combine , create file	cat <file name>
cp	copy <div>cp &lt;file&gt; ~ '~' represents home dir.</div>	cp <source> <destination>
mv	move or rename a file	mv <file> ./<dir>/
vim	vim editor	vim <file name>
yum install	In fedora based linux distributions 'yum' is the package installer.	yum install <package name>
systemctl start/enable	starts/enable installed service.	systemctl start <service name>
pwd	Present working directory	pwd
head	show 10 lines	head <file name>
tail	show last 10 lines	tail <file name>
head -130 numbers   tail -11	show 11 lines from first- desired.	to see lines in between
grep <word , number>	search command of Linux OS	grep <word,number>
grep   wc -l	search for word & show word count	wc -l messages
man	manual	man <command>
q	Quit	q
ls -l	lists files with permissions	ls -l

<p>chmod</p> <ul style="list-style-type: none"> <li>numeric values <ul style="list-style-type: none"> <li>r - 4</li> <li>w - 2</li> <li>x - 1</li> </ul> </li> </ul>	<p>numeric method to change permission for file</p> <ul style="list-style-type: none"> <li>explanation <ul style="list-style-type: none"> <li>rw- 7</li> <li>rw- 6</li> <li>r-x 5</li> <li>r-- 4</li> <li>-wx 3</li> <li>-w- 2</li> <li>--x 1</li> <li>--_ 0</li> </ul> </li> </ul>	<p>chmod 764 &lt;filename&gt;</p> <ul style="list-style-type: none"> <li><a href="#">Click here to expand...</a> <ul style="list-style-type: none"> <li>change file permission to</li> <li>rw- rw- r--</li> </ul> </li> </ul>
	<p>Symbolic method</p> <div>  rw- xgo (user group others) </div> <div> <pre>chmod u+wx g+x g-w o-wx</pre> </div>	<div>  <b>owner group others</b> <ul style="list-style-type: none"> <li>r-- rw- rw- existing permissions</li> <li>rw- r-x r-- requirement</li> </ul> </div>
<p>tar -cvzf</p> <ul style="list-style-type: none"> <li>-cvzf <ul style="list-style-type: none"> <li>c create</li> <li>v verbose ( background activities will be shown on screen</li> <li>z gzip file</li> </ul> </li> </ul>	<p>Bundle all files</p> <div>  perform archieving and compression. </div>	<p>tar -cvzf &lt;file name.tar.gz &gt; &lt;file 1&gt; &lt;file2&gt; &lt;fie3&gt;</p>
tar -xvzf	Extract	tar -xvzf <file name>
du -sh	file size	du -sh <filename>
seq 1 <size>	create dummy files with desired file size.	seq 1 1000000 (size) > file name
gzip	compress one file	gzip <file name>
gunzip	uncompress file	gunzip <file name.gz>
rm -f (name)*	delete files with specific name only	rm -f data*
useradd	Adding user	useradd <name>
passwd	Changing password of logged in user	passwd <username>
usermod -L	Lock account	usermod -L <username>
usermod -U	Unlock account	usermod -U <username>
su	switch user	su <username>
exit	exit	exit
ps -aux	show static process that are running.	ps -aux
top	dyanamic listing of processes running in back	top

pidof	finding process id <div>  Among three id provided always select <b>smaller</b> number. </div>	pidof <app name>
kill -<signal> <pid>	signals which are freq used. <div>  -15 soft kill  -9 force kill  -19 pause a process  -18 resume </div>	kill -15 <process id>
vmstat	memory statistics	vmstat
free -h	free memory	free -h
mpstat	process statistics	mpstat
iostat	input output statistics	iostat
lsof	open files by OS	lsof
who	displays user	who
w	number of active users	w
ifconfig	Displays Ip address	ifconfig