

Linux Shell Cheat Sheet

File Management	
cd	change directory
cp	copy file
file	determine a file's type
mkdir	make a new directory
mv	move or rename a file
ln	make soft or hard links for files
ls	list contents of a directory
rm	remove a file
rmdir	remove a directory
pushd	remember a directory
popd	change to last remembered directory
pwd	print working directory
touch	update file timestamp and create file if it doesn't exist
whoami	print effective userid

File Contents	
cat	concat files and print
cmp	compare bytes of two files
cut	cut file into sections and print only selection
diff	compare two files line by line (or directories)
grep	print lines of a file that match a pattern
head	print first few lines of a file
hexdump	dump file contents in hexadecimal, octal, ASCII or decimal format
less	display file contents in a pager
nano	text editor
nl	number lines of a file
sort	sort lines of a file
tail	print last few lines of a file
uniq	report or omit repeated lines
vi	text editor
vim	text editor (evolved from vi)
wc	print newline, word, character and/or byte counts of a file

Search	
find	search for files using many options
locate	find files by name
updatedb	update the database used by locate
whereis	find where a binary, source and/or man page of a command are located

Help	
apropos	search man page names and descriptions for keyword
help	display help for shell builtins
info	display info page of a command
man	display man page of a command
whatis	display the one-line man page description of a command

User Management	
addgroup	add a group to the system
getent	get entries from Name Service Switch libraries, e.g. used to list users with getent passwd
groups	list the groups a user is in
passwd	change user password
usermod	change user account details

Access Management	
chgrp	change group ownership
chmod	change files access modes
chown	change file and/or group ownership

Network	
dig	lookup DNS records
ip	show / manipulate routing, network devices, interfaces and tunnels
scp	copy files to or from remote hosts using ssh
ssh	open remote session on OpenSSH client
ssh-keygen	generate, manage and convert key pairs for SSH
ping	send echo requests to hosts

System	
date	show system time and date
df	display information about free space of disks
findmnt	list mounted filesystems (or search)
free	display amount of free and used memory
hostnamectl	query or change system hostname and related settings
htop	pretty realtime process viewer
kill	send a control signal to a process
killall	kill process by name
localectl	control system locale and keyboard layout settings
lsblk	list block devices
mount	mount a filesystem
ps	print processes
reboot	reboot the system
shutdown	shutdown the system
timedatectl	control system time and date
umount	unmount a filesystem

Keyboard Shortcuts	
ctrl + C	interrupt current (foreground) process of the shell
ctrl + D	exit
ctrl + K	cut from cursor to end of line
ctrl + L	clear the screen
ctrl + U	cut from start of line to cursor
ctrl + Y	paste (right MB also works)

Redirection	
cmd1 cmd2	redirect stdout output of cmd1 as input of cmd2
cmd1 & cmd2	redirect stderr output of cmd1 as input of cmd2
cmd > file	write stdout output of cmd to file
cmd 2> file	write stderr output of cmd to file
cmd &> file	write stdout and stderr output of cmd to file
cmd >> file	append stdout output of cmd to file
cmd < file	redirect contents of file as a stream as input for cmd