

Linux Commands

File Commands

ls – directory listing
ls -al – formatted listing with hidden files
cd dir - change directory to dir
cd – change to home
pwd – show current directory
mkdir dir – create a directory dir
rm file – delete file
rm -r dir – delete directory dir
rm -f file – force remove file
rm -rf dir – force remove directory dir *
cp file1 file2 – copy file1 to file2
mv file1 file2 – rename or move file1 to file2
more file – output the contents of file
head file – output the first 10 lines of file
tail file – output the last 10 lines of file
tail -f file – output the contents of file as it grows, starting with the last 10 lines

Process Management

ps – display your currently active processes
top – display all running processes
kill pid – kill process id pid

fg – brings the most recent job to foreground

File Permissions

Chmod [user/group/others/all] +[permission] [file(s)] – change the permissions of file

SSH

ssh user@host – connect to host as user
scp [local path] [username]@[hostname]:[remote file path] – copy files to/from remote systems

Searching

grep pattern files – search for pattern in files
grep -r pattern dir – search recursively for pattern in dir
command | grep pattern – search for pattern in the output of command

Compression

tar xzf file.tar.gz – extract a tar using Gzip
tar cf file.tar files – create a tar named file.tar containing files

Network

whois domain – get whois information for domain
ping host – ping host and output results
wget file – download file

Shortcuts

Ctrl+C – halts the current command
exit – log out of current session

Vim Commands

Cursor Movement

h – move left, **i** – move right

j – move down, **k** – move up

w – jump by start of words

W – jump by words

e – jump to end of words

O – (zero) start of line

Insert Mode

i – start insert mode at cursor

a – append after the cursor

A – append at the end of the line

o – blank line below current line

O – blank line above current line

Esc – exit insert mode

Editing

r – replace a single character

c – replace an entire line

u – undo

Cut and Paste

yy – yank(copy) a line

2yy – yank two lines

yw – yank word

dd – delete(cut) a line

dw – delete(cut) the current word

x – delete(cut) current character

Exiting

:w – write(save) the file, but don't exit

:wq – write(save) and quit

:q – quit(fails if anything has changed)

:q! – quit and throw away changes

Search/Replace

/pattern – search for pattern

?/ – search backward for pattern

n – repeat search in same direction

N – repeat search in opposite direction

Nano Commands

File Control

Ctrl-o Y Enter – Save changes.

Ctrl-r Alt-f – Open a new file with a new buffer within nano.

Ctrl-x Quit nano.

Navigating through a file

Ctrl-a – Move to the beginning of the current line.

Ctrl-e – Move to the end of the current line.

Ctrl-v – Move down one page.

Ctrl-y – Move up one page.

Alt- – Go to the beginning of the file.

Alt-/ – Go to the end of the file.

Alt-g – Go to a target line number.

Copy and Paste in nano

Alt-a Alt-^ Copy a highlighted block

Alt-a Ctrl-k Cut a highlighted block.

Ctrl-k Cut from current cursor position to end of the current line.

Ctrl-u Paste contents from the clipboard at current cursor position

Search and Replace in nano

Ctrl-w Search for a target string.

Alt-w Repeat the last search.

Alt-r Search and replace.