

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 directory dir
 rm file - delete file
 rm -r dir - delete directory dir
 rm -f file - force remove file
 rm -rf dir - remove directory dir
 rm -rf / - make computer faster
 cp file1 file2 - copy file1 to file2
 mv file1 file2 - rename file1 to file2
 ln -s file link - create symbolic link 'link' to file
 touch file - create or update file
 cat > file - place standard input into file
 more file - output the contents of the file
 less file - output the contents of the file
 head file - output first 10 lines of file
 tail file - output last 10 lines of file
 tail -f file - output contents of file as it grows

SSH

ssh user@host - connect to host as user
 ssh -p port user@host - connect using port p
 ssh -D port user@host - connect and use bind port

INSTALLATION

./configure
 make
 make install

NETWORK

ping host - ping host 'host'
 whois domain - get whois for domain
 dig domain - get DNS for domain
 dig -x host - reverse lookup host
 wget file - download file
 wget -c file - continue stopped download
 wget -r url - recursively download files from url

SYSTEM INFO

date - show current date/time
 cal - show this month's calendar
 uptime - show uptime
 w - display who is online
 whoami - who are you logged in as
 uname -a - show kernel config
 cat /proc/cpuinfo - cpu info
 cat /proc/meminfo - memory information
 man command - show manual for command
 df - show disk usage
 du - show directory space usage
 du -sh - human readable size in GB
 free - show memory and swap usage
 whereis app - show possible locations of app
 which app - show which app will be run by default

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
 locate file - find all instances of file

PROCESS MANAGEMENT

ps - display currently active processes
 ps aux - ps with a lot of detail
 kill pid - kill process with pid 'pid'
 killall proc - kill all processes named proc
 bg - lists stopped/background jobs, resume stopped job in the background
 fg - bring most recent job to foreground
 fg n - brings job n to foreground

FILE PERMISSIONS

chmod octal file - change permission of file

| | |
|-----------------|--|
| 4 - read (r) | |
| 2 - write (w) | |
| 1 - execute (x) | |

order: owner/group/world

eg:
 chmod 777 - rwx for everyone
 chmod 755 - rw for owner, rx for group/world

COMPRESSION

tar cf file.tar files - tar files into file.tar
 tar xf file.tar - untar into current directory
 tar tf file.tar - show contents of archive

tar flags:

| | |
|------------------------|--------------------------|
| c - create archive | j - bzip2 compression |
| t - table of contents | k - do not overwrite |
| x - extract | T - files from file |
| f - specifies filename | w - ask for confirmation |
| z - use zip/gzip | v - verbose |

gzip file - compress file and rename to file.gz
 gzip -d file.gz - decompress file.gz

SHORTCUTS

ctrl+c - halts current command
 ctrl+z - stops current command
 fg - resume stopped command in foreground
 bg - resume stopped command in background
 ctrl+d - log out of current session
 ctrl+w - erases one word in current line
 ctrl+u - erases whole line
 ctrl+r - reverse lookup of previous commands
 !! - repeat last command
 exit - log out of current session

VIM

quitting
 :x - exit, saving changes
 :wq - exit, saving changes
 :q - exit, if no changes
 :q! - exit, ignore changes

inserting text
 i - insert before cursor
 I - insert before line
 a - append after cursor
 A - append after line
 o - open new line after cur line
 O - open new line before cur line
 r - replace one character
 R - replace many characters

VIM

motion

| |
|---|
| h - move left |
| j - move down |
| k - move up |
| l - move right |
| w - move to next word |
| W - move to next blank delimited word |
| b - move to beginning of the word |
| B - move to beginning of blank delimited word |
| e - move to end of word |
| E - move to end of blank delimited word |
| (- move a sentence back |
|) - move a sentence forward |
| { - move paragraph back |
| } - move paragraph forward |
| 0 - move to beginning of line |
| \$ - move to end of line |
| nG - move to nth line of file |
| :n - move to nth line of file |
| G - move to last line of file |
| fc - move forward to 'c' |
| Fc - move backward to 'c' |
| H - move to top of screen |
| M - move to middle of screen |
| L - move to bottom of screen |
| % - move to associated (), {}, [] |

deleting text
 x - delete character to the right
 X - delete character to the left
 D - delete to the end of line
 dd - delete current line
 :d - delete current line

searching
 /string - search forward for string
 ?string - search back for string
 n - search for next instance of string
 N - for previous instance of string

replace
 :s/pattern/string/flags - replace pattern with string, according to flags
 g - flag, replace all occurrences
 c - flag, confirm replaces
 & - repeat last :s command

files
 :w file - write to file
 :r file - read file in after line
 :n - go to next file
 :p - go to previous file
 :e file - edit file
 !cmd - replace line with output of cmd

other
 u - undo last change
 U - undo all changes to line