

UNIX CHEAT SHEET

FILE COMMANDS

ls	directory listing
ls -al	formatted listing with hidden files
cd dir	change directory to <i>dir</i>
pwd	show current directory
mkdir dir	create directory <i>dir</i>
rm file	delete <i>file</i>
rm -r dir	delete directory <i>dir</i>
rm -f file	force remove <i>file</i>
rm -rf dir	remove directory <i>dir</i>
cp file1 file2	copy <i>file1</i> to <i>file2</i>
mv file1 file2	move <i>file1</i> to <i>file2</i>
ln -s file link	create symbolic link <i>link</i> to <i>file</i>
touch file	create or update <i>file</i>
cat file	output <i>file</i>
more file	output the contents of <i>file</i>
less file	output the contents of <i>file</i>
head file	output the first 10 lines of <i>file</i>
tail file	output the last 10 lines of <i>file</i>
tail -f file	output the last 10 lines of <i>file</i> as it grows

SHORTCUTS

ctrl+c	halts current command
ctrl+z	stops current command
exit	log out of current session
ctrl+a	move to the beginning of the line
ctrl+e	move to the end of the line
ctrl+w	erase one word in current line
ctrl+u	erases whole line
clear	clear
history	history of commands with id
ctrl+r	reverse lookup of previous commands
!!	repeat last command
!\$	repeat last argument
!id	repeat command by history id

PROCESS MANAGEMENT

ps	display currently active processes
ps aux	display all(a) active processes by user(u) including background(b) processes
kill id	kill process by <i>id</i>

SYSTEM INFO

date	show current date/time
cal	show this month's calendar
uptime	show uptime
w	
whoami	who you are logged in as
uname [-a]	show kernel [config]
df	show disk usage
du	show directory space usage
du -sh	human readable space usage
whereis app	show possible locations of <i>app</i>
which app	show which <i>app</i> will be run by default

SEARCH

find path -name file name	search for <i>file name</i> in <i>path</i>
grep pattern file	search for <i>pattern</i> in <i>file</i>
grep -r pattern dir	search recursively for <i>pattern</i> in <i>dir</i>
command pattern	search for <i>pattern</i> in the output of the command
locate file	find all instances of <i>file</i>

NETWORK

ping host	ping host <i>host</i>
whois domain	get info for <i>domain</i>
dig domain	get DNS for <i>domain</i>
dig -x host	reverse lookup <i>host</i>
scp user@host:file local path	copy something from system to <i>local path</i>

SSH

ssh user@host	connect to host as user
ssh -p port user@host	connect to host as user using <i>port</i>
ssh -D port user@host	connect to host as user using bind <i>port</i>

FILE PERMISSIONS

chown owner file	change ownership of <i>file</i> to <i>owner</i>
chmod octal file	change permission of <i>file</i>
	<i>octal</i> format as follows: 4 read(r), 2 write(w), 1 execute(x) for owner/group/all