

Linux systemd cheat sheet pdf file free online

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CHEAT SHEET WORLD

» All » Programming » Unix / Linux Cheat Sheet

UNIX / LINUX CHEAT SHEET

FILE SYSTEM

ls — list items in current directory
 ls -l — list items in current directory and show in long format to see permissions, size, and modification date
 ls -la — list all items in current directory, including hidden files
 ls -lF — list all items in current directory and show directories with a slash and executables with a star
 ls ddir — list all items in directory dir
 cd ddir — change directory to dir
 cd .. — go up one directory
 cd / — go to the root directory
 cd ~ — go to your home directory
 cd - — go to the last directory you were just in
 pwd — show present working directory
 mkdir ddir — make directory dir
 rm ffile — remove file
 rm -r ddir — remove directory dir recursively
 cp ffile1 ffile2 — copy file1 to file2
 cp -r ddir1 ddir2 — copy directory dir1 to dir2 recursively
 mv ffile1 ffile2 — move (rename) file1 to file2
 ln -s ffile link — create symbolic link to file
 touch ffile — create or update file
 cat ffile — output the contents of file
 less ffile — view file with page navigation
 head ffile — output the first 10 lines of file
 tail ffile — output the last 10 lines of file
 tail -f ffile — output the contents of file as it grows, starting with the last 10 lines
 vi ffile — edit file
 alias name='command' — create an alias for a command

COMPRESSION

tar -cf ffile.tar ffiles — create a tar named file tar containing files
 tar -xf ffile.tar — extract the files from file tar
 tar -xzf ffile.tar.gz ffiles — create a tar with Gzip compression
 tar -xzf ffile.tar.gz — extract a tar using Gzip
 gzip ffile — compresses file and renames it to file.gz
 gunzip -d ffile.gz — decompresses file.gz back to file

SYSTEM

shutdown — shut down machine
 reboot — restart machine
 date — show the current date and time
 whoami — who you are logged in as
 finger user — display information about user
 man command — show the manual for command
 df — show disk usage
 du — show directory space usage
 free — show memory and swap usage
 whereis app — show possible locations of app
 which app — show which app will be run by default

NETWORKING

wget ffile — download a file
 curl ffile — download a file
 scp user@host:ffile ddir — secure copy a file from remote server to the ddir directory on your machine
 sftp ffile user@host:ddir — secure copy a file from your machine to the ddir directory on a remote server
 rcp -r user@host:ddir ddir — secure copy the directory dir from remote server to the directory dir on your machine
 ssh user@host — connect to host as user
 ssh -p port user@host — connect to host on port as user
 ssh-copy-id user@host — add your keys to host for user to enable a keyed or passwordless login
 ping host — ping host and output results
 whois domain — get information for domain
 dig domain — get DNS information for domain
 dig -x host — reverse lookup host
 ssaf -t top:1000 — list all processes running on port 1000

SHORTCUTS

ctrl+a — move cursor to beginning of line
 ctrl+z — move cursor to end of line
 ctrl+f — move cursor forward 1 word
 ctrl+b — move cursor backward 1 word

PROCESS MANAGEMENT

ps — display your currently active processes
 top — display all running processes
 kill pid — kill process id pid
 kill -9 pid — force kill process id pid

PERMISSIONS

ls -l — list items in current directory and show permissions
 chmod ugo ffile — change permissions of file
 u is the user's permissions, g is the group's per and o is everyone else's permissions. The value and o can be any number between 0 and 7.
 7 — full permissions
 6 — read and write only
 5 — read and execute only
 4 — read only
 3 — write and execute only
 2 — write only
 1 — execute only
 0 — no permissions
 chmod 660 ffile — you can read and write *.files
 chmod 700 ffile — you can read, write, and execute for scripts
 chmod 644 ffile — you can read and write, everyone else can only read - good for web pages
 chmod 755 ffile — you can read, write, and execute and everyone else can read and execute - good programs that you want to share

SEARCHING

grep pattern ffiles — search for pattern in files
 grep -r pattern ddir — search recursively pattern in dir
 grep -n pattern ddir — search recursively pattern in dir and show the line number found
 grep -r pattern ddir --include '*.txt' -v — recursively for pattern in dir and only search in .txt extension
 command | grep pattern — search for pattern output of command
 find ffile — find all instances of file in real's database
 locate ffile — find all instances of file using database built from the updatedb command. M then find
 and -s "x/day/mighty" ffile — find all occurrences of day in a file and replace them with s means substitute and g means global - sed supports regular expressions

Cheatography

VI Editor Cheat Sheet
 by Eric Griviers (eng) via cheatography.com/629/cs/270/

Quitting	Motion (move)	Changing text
q — Exit, saving changes	h — Move forward to c	C — Change to the end of the line
q! — Exit as long as there have been no changes	H — Move back to c	o — Change the whole line
ZZ — Exit and save changes if any have been made	K — Move to top of screen	gO — uppercase line
q — Exit and ignore any changes	M — Move to middle of screen	o — Toggle case and lower case
	L — Move to bottom of screen	
	% — Move to associated ((,), {, })	
Inserting Text	\$	Putting text
i — Insert before cursor	\$ — Move to the end of the line	O — Put after the position or after the line
I — Insert before line	[left] + o — go down half a screen	P — Put before the position or before the line
A — Append after cursor	[left] + O — go up half a screen	
O — Open a new line after current line	[left] + I — go forward a screen	Markers
O — Open a new line before current line	[left] + B — go back a screen	l — Set marker at top this line
R — Replace one character		l — Go to beginning of marker's line
R — Replace many characters		l — Go to first non-back character of marker's line
Editing	Markers	Search for strings
h — Move left	l — Set marker at top this line	ctrl+F — Search forward for string
j — Move down	l — Go to beginning of marker's line	ctrl+B — Search back for string
k — Move up	l — Go to first non-back character of marker's line	h — Search for next instance of string
l — Move right		H — Search for previous instance of string
^ — Move to first word	Replacing	ctrl+H — Replace pattern with string
W — Move to next blank delimited word	gH — Replace according to flags	g — Flag: Replace all occurrences of pattern
B — Move to the beginning of the word	g — Flag: Replace all occurrences of pattern	c — Flag: Confirm responses
b — Move to the beginning of blank delimited word	g — Flag: Confirm responses	A — Repeat last's command
e — Move to the end of the word	Ranges	
E — Move to the end of blank delimited word	ctrl — Range: Lines n-m	
0 — Move to the beginning of blank delimited word	0 — Range: Current line	
\$ — Move to the end of the word	\$ — Range: Last line	
0 — Move to the beginning of the word	^ — Range: Marker c	
\$ — Move to the end of the word	% — Range: All lines in file	
[left] — Move to the last line of the file	gpattern — Range: All lines that contain pattern	
[left] — Move to nth line of the file		
n — Move to nth line of the file		

Linux Commands Cheat Sheet

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Process Management

- ps — display your currently active processes
- top — display all running processes
- kill pid — kill process id pid
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- and -s "x/day/mighty" ffile — find all occurrences of day in a file and replace them with s means substitute and g means global - sed supports regular expressions

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