

Linux Command Line Cheat Sheet

by Dave Child (DaveChild) via cheatography.com/1/cs/49/

Bash Commands	
uname -a	Show system and kernel
head -n1 /etc/issue	Show distribution
mount	Show mounted filesystems
date	Show system date
uptime	Show uptime
whoami	Show your username
man command	Show manual for command

Bash Sho	ortcuts
CTRL-c	Stop current command
CTRL-z	Sleep program
CTRL-a	Go to start of line
CTRL-e	Go to end of line
CTRL-u	Cut from start of line
CTRL-k	Cut to end of line
CTRL-r	Search history
!!	Repeat last command
!abc	Run last command starting with abc
!abc:p	Print last command starting with abc
!\$	Last argument of previous command
ALT	Last argument of previous command
!*	All arguments of previous command
^abc^ 123	Run previous command, replacing <i>abc</i> with <i>123</i>

Bash Variables	
env	Show environment variables
echo <i>\$NAME</i>	Output value of <i>\$NAME</i> variable
export NAME=v alue	Set \$NAME to value
\$PATH	Executable search path
\$HOME	Home directory
\$SHELL	Current shell

IO Redirection

cmd < file

Input of cmd from file

cmd1 <(cmd2)

Output of cmd2 as file input to cmd1

cmd > file

Standard output (stdout) of cmd to file

cmd > /dev/null

Discard stdout of cmd

cmd >> file

Append stdout to file

cmd 2> file

Error output (stderr) of cmd to file

cmd 1>&2

stdout to same place as stderr

cmd 2>&1

stderr to same place as stdout

cmd &> file

Every output of and to file

Directory Opera	
pwd	Show current directory
mkdir <i>dir</i>	Make directory dir
cd dir	Change directory to dir
cd	Go up a directory
Is	List files

Is Opt	
-a	Show all (including hidden)
-R	Recursive list
-r	Reverse order
-t	Sort by last modified
-S	Sort by file size
-l	Long listing format
-1	One file per line
-m	Comma-separated output
-Q	Quoted output

Search Files	
grep pattern files	Search for pattern in files
grep -i	Case insensitive search
grep -r	Recursive search
grep -v	Inverted search
grep -o	Show matched part of file only
find /dir/ -name name*	Find files starting with name in dir
find /dir/ -user name	Find files owned by <i>name</i> in <i>dir</i>
find /dir/ -mmin	Find files modifed less than <i>num</i> minutes ago in <i>dir</i>
whereis command	Find binary / source / manual for command

Find file (quick search of system

File Operations

touch file1

locate file

Create file1

cat file1 file2

Concatenate files and output

less file1

View and paginate file1

file file1

Get type of file1

cp file1 file2

Copy file1 to file2

mv file1 file2

Move file1 to file2

rm file1

Delete file1

head file1

Show first 10 lines of file1

tail *file1*

Show last 10 lines of file1

Nano Shortcuts	
Files	
Ctrl-R	Read file
Ctrl-O	Save file
Ctrl-X	Close file
Cut and Paste	
ALT-A	Start marking text
CTRL-K	Cut marked text or line
CTRL-U	Paste text
Navigate File	
ALT-/	End of file
CTRL-A	Beginning of line
CTRL-E	End of line
CTRL-C	Show line number
CTRL	Go to line number
Search File	
CTRL-W	Find
ALT-W	Find next
CTRL-\	Search and replace
More nano info a	at: -editor.org/docs.php

Screen Shortcuts

screen

Start a screen session.

screen -r

Resume a screen session.

screen -list

Show your current screen sessions.

CTRL-A

Activate commands for screen.

CTRL-A c

Create a new instance of terminal.

CTRL-A n

Go to the next instance of terminal.

CTRL-A p

Go to the previous instance of terminal.

CTRL-A

Show current instances of terminals.

CTRL-A A

Rename the current instance.

More screen info at:

http://www.gnu.org/software/screen/

File Permissions

chmod 775 file

Change mode of file to 775

chmod -R 600 folder

Recursively chmod folder to 600

chown user:group file

Change file owner to user and group to group

File Permission Numbers

The first digit is the owner permission, the second the group and the third for everyone.

Every output or crita to life

cmd refers to a command.

Pipes

cmd1 | cmd2

stdout of cmd1 to cmd2

cmd1 |& cmd2

stderr of cmd1 to cmd2

Command Lists

cmd1; cmd2

Run cmd1 then cmd2

cmd1 && cmd2

Run cmd2 if cmd1 is successful

cmd1 || cmd2

Run cmd2 if cmd1 is not successful

cmd &

Run cmd in a subshell

Cheatographer



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tail -f file1

Output last lines of file1 as it changes

Process I	
ps	Show snapshot of processes
top	Show real time processes
kill <i>pid</i>	Kill process with id pid
pkill name	Kill process with name name
killall name	Kill all processes with names beginning name

Watch a Command

watch -n 5 'ntpq -p'

Issue the 'ntpq -p' command every 5 seconds and display output

Dates

This cheat sheet was published on 28th October, 2011 and was last updated on 12th May, 2013.

Calculate each of the three permission digits by adding the numeric values of the permissions below.

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

-						
					b	