

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 filesy-
	stems
date	Show system date
uptime	Show uptime
whoami	Show your username
man <i>command</i>	Show manual for
	command

Bash Short	cuts
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
! <i>abc</i> :p	Print last command starting with <i>abc</i>
!\$	Last argument of previous command
ALT	Last argument of previous command
!*	All arguments of previous command
^abc^123	Run previous command,

Bash Variables	1
env	Show environment variables
echo <i>\$NAME</i>	Output value of <i>\$NAME</i> variable

replacing abc with 123

Bash Variables (cont)	
export NAME=value	Set <i>\$NAME</i> to <i>value</i>
\$PATH	Executable search path
\$HOME	Home directory
\$SHELL	Current shell
IO Redirection	

\$HOME	Home directory
\$SHELL	Current shell
10.5 " "	
IO Redirection	
cmd < file	
Input of <i>cmd</i> from	ı <i>file</i>
cmd1 <(cmd2)	
Output of cmd2 a	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 (stde	err) of <i>cmd</i> to <i>file</i>
cmd 1>&2	
stdout to same pl	ace as stderr
cmd 2>&1	
stderr to same pl	ace as stdout
cmd &> file	
Every output of cmd to file	
cmd refers to a cor	mmand.

Į	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 <i>cmd</i> in a subshell

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

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

Search Files	
grep pattern files	Search for <i>pattern</i> in <i>files</i>
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 <i>name</i> in <i>dir</i>



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Search Files (cont)	
find /dir/-user name	Find files owned by name in dir
find /dir/-mmin num	Find files modifed less than <i>num</i> minutes ago in <i>dir</i>
whereis command	Find binary / source / manual for <i>command</i>
locate file	Find <i>file</i> (quick search of system index)

File Operation	ıs
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touch file1

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

tail -F *file1*

Output last lines of file1 as it changes

Watch a Command

watch -n 5 'ntpq -p'

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

ps Show snapshot of processes top Show real time processes kill *pid* Kill process with id *pid* pkill *name* Kill process with name *name* killall *name* Kill all processes with names beginning *name*

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

Paste text

End of file

Navigate File

CTRL-U

ALT-/

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

Search and replace

More nano info at:

http://www.nano-editor.org/docs.php

Screen Shortcuts

screen

CTRL-\

Start a screen session.

screen -r

Resume a screen session.

Screen Shortcuts (cont)

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-Ap

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

First digit is owner permission, second is group and third is everyone.

Calculate permission digits by adding numbers below.

4 read (r)

2 write (w)

1 execute (x)



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