

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 command	Show manual for command

Bash Shortcuts		
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 abc	
!\$	Last argument of previous command	
ALT	Last argument of previous command	
!*	All arguments of previous command	
^abc^123	Run previous command,	

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

replacing abc with 123

Bash Variables (con	t)			
export NAME=value	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	e as stdout	

Pipes
cmd1 cmd2
stdout of cmd1 to cmd2
cmd1 & cmd2
stderr of cmd1 to cmd2

cmd &> file

Every output of cmd to file

cmd refers to a command.

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

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

is Op	is Options	
-a	Show all (including hidden)	
-R	Recursive list	
-r	Reverse order	
-t	Sort by last modified	
-S	Sort by file size	
-	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 <i>name</i> in <i>dir</i>



By **Dave Child** (DaveChild) cheatography.com/davechild/ aloneonahill.com

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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 dir
whereis command	Find binary / source /
	manual for command
locate file	Find file (quick
	search of system
	index)

File Operat	tions
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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 file 1

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



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Process Management

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 CTRL-U Paste text **Navigate File** ALT-/ End of file CTRL-A Beginning of line CTRL-E End of line Show line number CTRL-C CTRL-_ Go to line number Search File

More nano info at:

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

Find

Find next

Search and replace

Screen Shortcuts

screen

CTRL-W

ALT-W

CTRL-\

Start a screen session.

screen -r

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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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