

# 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 <i>abc</i>			
!\$	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	

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

cmd 1>&2

cmd 2>&1

cmd &> file

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

Error output (stderr) of cmd to file

stdout to same place as stderr

stderr to same place as stdout

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 <i>cmd</i> 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				
-1	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>



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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 command
locate file	Find <i>file</i> (quick search of system index)

Fil	v	v	c	а	ш	u	ш	

touch file1

Create file1

cat file1 file2

Concatenate files and output

less file1

View and paginate file1

file file 1

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

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

Process Management			
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		

#### **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

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.

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)

execute (x)



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