

# 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 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			

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

Run previous command, 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				
cmd < file				
Input of cmd from fin	le			
cmd1 <(cmd2)				
Output of cmd2 as f	ile 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 <i>cmd</i> to <i>file</i>			
cmd 1>&2				
stdout to same place as stderr				
cmd 2>&1				
stderr to same place as stdout				
cmd &> file				
Every output of cmd	to file			

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

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		
Is	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
-l	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>



^abc^123

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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

File Operations	File	Opera	itions
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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

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 beginning name

## Nano Shortcuts

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

Search File

CTRL-W Find

ALT-W Find next

CTRL-\ Search and replace

More nano info at:

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

## Screen Shortcuts

screen

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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