

Cheatography

Linux Command Line Cheat Sheet

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

Bash Commands

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

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
<code>!abc</code>	Run last command starting with <i>abc</i>
<code>!abc:p</code>	Print last command starting with <i>abc</i>
<code>!\$</code>	Last argument of previous command
ALT-.	Last argument of previous command
<code>!*</code>	All arguments of previous command
<code>^abc^123</code>	Run previous command, replacing <i>abc</i> with <i>123</i>

Bash Variables

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

Bash Variables (cont)

<code>export NAME=value</code>	Set <i>\$NAME</i> to <i>value</i>
<code>\$PATH</code>	Executable search path
<code>\$HOME</code>	Home directory
<code>\$SHELL</code>	Current shell

IO Redirection

<code>cmd < file</code>	Input of <i>cmd</i> from <i>file</i>
<code>cmd1 <(cmd2)</code>	Output of <i>cmd2</i> as file input to <i>cmd1</i>
<code>cmd > file</code>	Standard output (stdout) of <i>cmd</i> to <i>file</i>
<code>cmd > /dev/null</code>	Discard stdout of <i>cmd</i>
<code>cmd >> file</code>	Append stdout to <i>file</i>
<code>cmd 2> file</code>	Error output (stderr) of <i>cmd</i> to <i>file</i>
<code>cmd 1>&2</code>	stdout to same place as stderr
<code>cmd 2>&1</code>	stderr to same place as stdout
<code>cmd &> file</code>	Every output of <i>cmd</i> to <i>file</i>
<i>cmd</i> refers to a command.	

Pipes

<code>cmd1 cmd2</code>	stdout of <i>cmd1</i> to <i>cmd2</i>
<code>cmd1 & cmd2</code>	stderr of <i>cmd1</i> to <i>cmd2</i>

Command Lists

<code>cmd1 ; cmd2</code>	Run <i>cmd1</i> then <i>cmd2</i>
<code>cmd1 && cmd2</code>	Run <i>cmd2</i> if <i>cmd1</i> is successful
<code>cmd1 cmd2</code>	Run <i>cmd2</i> if <i>cmd1</i> is not successful
<code>cmd &</code>	Run <i>cmd</i> in a subshell

Directory Operations

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

Is Options

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

Search Files

<code>grep pattern files</code>	Search for <i>pattern</i> in <i>files</i>
<code>grep -i</code>	Case insensitive search
<code>grep -r</code>	Recursive search
<code>grep -v</code>	Inverted search
<code>grep -o</code>	Show matched part of file only
<code>find /dir/ -name name*</code>	Find files starting with <i>name</i> in <i>dir</i>



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