



Cheat Sheet Linux Terminal

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Bash Commands

Command Line	Explanation
uname -a	Show system and kernel
head -n1 /etc/issue	Show distri-bution
mount	Show mounted filesy-stems
date	Show system date
uptime	Show uptime
whoami	Show your username

Bash Shortcuts

Command Line	Explanation
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
! <i>abc</i>	Run last command starting with_ <i>abc</i> _
! <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
<i>abc</i> -123	Run previous command, replacing_ <i>abc</i> _with_123_

Bash Variables

Command Line	Explanation
env	Show environment variables
echo_ <i>\$NAME</i> _	Output value of_ <i>\$NAME</i> _variable
export_ <i>NAME</i> = <i>value</i>	Set_ <i>\$NAME</i> _to_ <i>value</i> _

\$PATH	Executable search path
\$HOME	Home directory
\$SHELL	Current shell

IO Redirection

Command Line	Explanation
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	Discard stdout of cmd
cmd >> file	Append stdout to file
cmd 2> file	Error output (stderr) of cmd to file
cmd >&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

Command Line	Explanation
cmd1 cmd2	stdout of cmd1 to cmd2
cmd1 & cmd2	stderr of cmd1 to cmd2

Command Lists

Command Line	Explanation
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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

Command Line	Explanation
pwd	Show current directory
mkdir_dir_	Make directory_dir_
cd_dir_	Change directory to_dir_
cd ..	Go up a directory
ls	List files

ls Options

Command Line	Explanation
-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
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Search Files

Command Line	Explanation
grep pattern files	Search for pattern in files
grep -i	Case insens-itive 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 name in dir
find /dir/ -user name	Find files owned by name in dir
find /dir/ -mmin num	Find files modified less than num minutes ago in dir
whereis command	Find binary / source / manual for command
locate file	Find file (quick search of system index)

File Operations

Command Line	Explanation
touch file1	Create file1
cat file1 file2	Concat-enate 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

Process Management

Command Line	Explanation
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

Command Line	Explanation
Ctrl-R	Read file
Ctrl-O	Save file
Ctrl-X	Close file

Images

Command Line	Explanation
ALT-A	Start marking text

CTRL-U	Paste text
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Navigate File

Command Line	Explanation
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

Command Line	Explanation
CTRL-W	Find
ALT-W	Find next
CTRL-\	Search and replace

Screen Shortcuts

Command Line	Explanation
screen	Start a screen session.
screen -r	Resume a screen session.
screen -list	Show your current screen sessions.
CTRL-A	Activate commands for screen.
CTRL-A c	Create a new instance of terminal.

CTRL-A p	Go to the previous instance of terminal.
CTRL-A "	Show current instances of terminals.
CTRL-A A	Rename the current instance.

File Permissions

Command Line	Explanation
4	read (r)
2	write (w)
1	execute (x)
chmod 644 file	Change mode of file to rw-r--r--
chmod -R 750 folder	Recursively chmod folder and contents to rwxr-x--
chown usr:grp file	Change file owner to usr, and group to grp