## Cheatography

## Linux Command Line Cheat Sheet

by DaveChild

Bash Commands	
uname -a	Show system and kernel
head -n1 /etc/issue	Show distribution
mount	Show mounted filesystems
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
!abc:p	Print last command starting with abc
!\$	Last argument of previous command
<u>!</u> *	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	
export NAME=value	Set \$NAME to value	
\$PATH	Executable search path	
\$HOME	Home directory	
\$SHELL	Current shell	

IO Redirection	
command < file	Read input of <i>command</i> from file
command > file	Write output of command to file
command > /dev/null	Discard output of command
command >> file	Append output to file
command1   command2	Pipe output of command1 to command2

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 Opt	ions
-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
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 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)

rile Operations	
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 file1	Output last lines of <i>file1</i> as it changes

Process		anagement
	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 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
CTRL-C	Show line number
CTRL	Go to line number
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 Sho	rtcuts
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 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 of terminal.

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**

The first digit is the owner permission, the second the group and the third for everyone.

Calculate each of the three permission digits by adding the numeric values of the permissions below.

4	read (r)
2	write (w)
1	execute (x)