Cheatography

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 <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> ^ <i>123</i>	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



By Dave Child (DaveChild) cheatography.com/davechild/ aloneonahill.com

Bash Variables (cont)

Linux Command Line Cheat Sheet

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

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

IO Redirection

cmd <	file
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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 Error output (stderr) of cmd to file cmd 1>&2 stdout to same place as stderr cmd &> file stderr to same place as stdout cmd &> file Every output of cmd to 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 Error output (stderr) of cmd to file cmd 1>&2 stdout to same place as stdout cmd 2>&1 stderr to same place as stdout	
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Every output of <i>cmd</i> to <i>file</i>	Every output of <i>cmd</i> to <i>file</i>	stderr to same place as stdout
		cmd &> file
cmd refers to a command.	cmd refers to a command.	Every output of <i>cmd</i> to <i>file</i>
		cmd refers to a command.

Pipes

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

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Command Lists

cmd1; cmd2
Run cmd1 then cmd2
cmd1 && cmd2
Run <i>cmd2</i> if <i>cmd1</i> 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 <i>dir</i>	Change directory to dir	
cd	Go up a directory	
ls	List files	

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 <i>pattern files</i>	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 / <i>dir</i> /-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 <i>name</i> in <i>dir</i>
find <i>/dir/-</i> mmin <i>num</i>	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 <i>file</i>	Find <i>file</i> (quick search of system index)
File Operations	

touch <i>file1</i>		
Create file1		
cat file1 file2		
Concatenate files and output		
less file1		
View and paginate <i>file1</i>		
file <i>file1</i>		
Get type of <i>file1</i>		
cp file1 file2		
Copy file1 to file2		
mv <i>file1 file2</i>		
Move <i>file1</i> to <i>file2</i>		
rm <i>file1</i>		
Delete file1		
head <i>file1</i>		
Show first 10 lines of <i>file1</i>		
tail <i>file1</i>		
Show last 10 lines of <i>file1</i>		
tail -F <i>file1</i>		
Output last lines of <i>file1</i> as it changes		

Watch a Command

- watch -n 5 'ntpq -p'
- Issue the 'ntpq -p' command every 5 seconds and display output



By Dave Child (DaveChild) cheatography.com/davechild/ aloneonahill.com

Process Management

ps	Show snapshot of processes
top	Show real time processes
kill <i>pid</i>	Kill process with id pid
pkill <i>name</i>	Kill process with name name
killall <i>name</i>	Kill all processes with names beginning <i>name</i>

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 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-A p
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:
More screen into at: http://www.gnu.org/software/screen/
http://www.gnu.org/software/screen/
http://www.gnu.org/software/screen/
http://www.gnu.org/software/screen/ File Permissions chmod 775 <i>file</i>
http://www.gnu.org/software/screen/ File Permissions chmod 775 <i>file</i> Change mode of <i>file</i> to 775
http://www.gnu.org/software/screen/ File Permissions chmod 775 <i>file</i> Change mode of <i>file</i> to 775 chmod -R 600 <i>folder</i>
http://www.gnu.org/software/screen/ File Permissions chmod 775 <i>file</i> Change mode of <i>file</i> to 775 chmod -R 600 <i>folder</i> Recursively chmod <i>folder</i> to 600
http://www.gnu.org/software/screen/ File Permissions chmod 775 <i>file</i> Change mode of <i>file</i> to 775 chmod -R 600 <i>folder</i> Recursively chmod <i>folder</i> to 600 chown <i>user.group file</i>
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
http://www.gnu.org/software/screen/ File Permissions chmod 775 <i>file</i> Change mode of <i>file</i> to 775 chmod -R 600 <i>folder</i> Recursively chmod <i>folder</i> to 600 chown <i>user.group file</i> Change <i>file</i> owner to <i>user</i> and group to <i>group</i>
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
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
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.

2	write	()
2	write	(W)

1

execute (x)

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