Cheatography

Common Commands Cheat Sheet by mmorykan via cheatography.com/89673/cs/20411/

Scriptin

Scripting
bash filename - Runs script
Shebang - "#!bin/bash" - First line of bash
script. Tells script what binary to use
./filename - Also runs script
- Creates a comment
echo \${variable} - Prints variable
<i>hello_int</i> = 1 - Treats "1" as a string
Use UPPERCASE for constant variables
Use <i>lowercase_with_underscores</i> for regular variables
<pre>echo \$((\${hello_int} + 1)) - Treats hello_int as an integer and prints 2</pre>
mktemp - Creates temporary random file
<i>test</i> - Denoted by "[[condition]]" tests the condition
<i>bash -x</i> - Prints commands and their arguments
ps -f - Copies the current shell in the fork
<i>exit value</i> - Exits the script with value exit code
<i>-n variable</i> - decides if variable is not empty
-z variable - Decides if variable is empty
\$? - Stands for the previous exit code
<i>\$#</i> - Stands for the number of arguments passed
[[\$# -ne 2]] - Evaluates to true if the
number of arguments is not equal to 2
-f filename - Determines if filename is a file
-d directoryName - Determines if directo- ryName is a directory
<i>\$1, \$2, \$3</i> - Refers to the first, second, and third arguments
<i>-eq</i> - means ==
-lt - Means <
- <i>le</i> - Means <=
<i>-gt</i> - Means >
-ge - Means >=

dirname - Prints directory name of of argument



By mmorykan cheatography.com/mmorykan/

sleep value - Forces the script to wait value seconds while [[condition]]; do stuff; done if [[condition]]; do stuff; fi until [[condition]]; do stuff; done words="house dogs telephone dog" -Declares words array for word in \${words} - traverses each element in array for counter in {1..10} - Loops 10 times for ((;;)) - Is infinite for loop break - exits loop body for ((counter=1; counter -le 10; counter++)) - Loops 10 times \${array[I]} - Indexes array *\${array[]} - References the whole array.* Can also use @* declare -A array - declares associative array myassocarray=([apple]="red" [banana]="yellow") - Creates associative array *\${myassocarray[banana]}* - References bananas value in the array unset array[I] - Deletes the I index unset array - Deletes the array *\${#array}* - Outputs the length of the array alias II = 'Is -I' - Creates the II command as an alias home() { do stuff ; } Creates the home function return - defaults to the previous exit value local - Creates local variable within function cut - Cuts away parts of the output

GitHub

git clone <url> - Clones gitkeeper url git add <filename> - Adds the file to git git commit - Commits all files to git git push - Pushes all git files to host Package / Networking dnf upgrade - Updates system packages dnf install - Installs package dnf search - Searches for package dnf remove - Removes package systemctl start - Starts systemd service systemctl stop - Stops systemd service systemctl restart - Restarts systemd service systemctl reload - Reloads systemd service configuration files systemctl enable - Enable systemd service at boot systemctl disable - Disable systemd service systemctl status - Displays activity state and some log lines of service atq - Displays currently scheduled commands at - Runs command once at certain time/day *atrm* - Remove scheduled commands crontab -e - Create a file for scheduled commands to run journalctl - Shows logs dmesg - Shows kernel messages, hardware, driver, etc. history - Shows previous commands script - Records all input and writes it to a file route - Configures IP connection hostname - Sets system host name netstat -rn - Gives routing table ifconfig - Outputs network interface ip addr - Shows different addresses and internet connections

Published 18th December, 2019. Last updated 28th January, 2020. Page 1 of 2.

Sponsored by CrosswordCheats.com Learn to solve cryptic crosswords! http://crosswordcheats.com

Cheatography

Common Commands Cheat Sheet by mmorykan via cheatography.com/89673/cs/20411/

Package / Networking (cont)

traceroute -I - Gives list of IPs the machine went through

wget - Downloads file from internet

brctl, nmcli - Creates bridging between ports

Other Stuff

Ctrl - U - Deletes command line

Ctrl - C - Aborts command

Ctrl - Z - Suspends command

fg - Resumes command after suspension

Ctrl - T - Fix misspelled command

cal - Prints ASCII calendar

System Information

free - Displays amount of free and used memory in system

df - Reports file system disk space usage

lsblk - Reports information about block devices

fdisk - Manipulates disk partition table

Uname - Prints system information

top - Display and update sorted info about processes

uptime - Displays the amount of timed the machine has been running

User/Root Commands

useradd - Creates new user

passwd - Sets password for new user

userdel - Removes user

chsh --shell /bin/sh username - Changes shell

sudo grouped groupante - Creates group

chown - Changes owner

chgrp - Changes group

chmod - Changes permissions

chmod ug +x filename - Gives user and

group permission to execute file



User/Root Commands (cont)

chmod 1777 filename - Sets all permissions and a sticky bit

Samba

smbpasswd - Sets server password

File and Directory Manipulation

Is - Shows all files in current directory

ls -a - Shows all files including hidden files in current directory

pwd - Shows current directory (present working directory)

cd - Changes curent directory

pstree - Shows running processes as a tree

ps - Report a snapshot of current processes

cp - Copies files

cp filename newfilename - Creates new file with old file information

cp filename directory/ - Puts file into directory

mv - Moves files

mv filename directory/ - Moves file into directory

rm - Removes\deletes files

rm -r - Deletes directories

rm -r directory/ - Removes directory

rm -rf directory/ - Removes directory to oblivion

mkdir - Creates directories

echo - Moves data (e.g. moves text into a file)

echo text >> filename - Moves text into file

cat - Reads file text or concatenate files and print file text

touch - Creates any kind of file

tail - Outputs last part of files

less - Views files instead of opening them.

Lets user scroll through

awk - Selects data and presents rows and columns in output

Published 18th December, 2019. Last updated 28th January, 2020. Page 2 of 2.

File and Directory Manipulation (cont)

awk '{print \$1,\$2,\$3}' filename - Prints first, second, third words of each line

sort - Sorts lines of text files

vi filename - Opens text editor for file. Hard to use

file filename - Gives information on file

more filename - Displays file contents (no scrolling)

grep "text" filename - Searches for text within file

find - Finds files

whoami - Prints current user

rmdir - Removes directories

du - Displays file space usage

yes - Displays the same line of text until interrupted

Sponsored by CrosswordCheats.com Learn to solve cryptic crosswords! http://crosswordcheats.com