Common Commands Cheat Sheet

by mmorykan via cheatography.com/89673/cs/20411/

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

hello_int = 1 - Treats "1" as a string

Use *UPPERCASE* for constant variables

Use *lowercase_with_underscores* for regular variables

echo $((${hello_int} + 1)) - Treats hello_int as an integer and prints 2

mktemp - Creates temporary random file

test - Denoted by "[[condition]]" tests the condition

bash -x - Prints commands and their arguments

ps -f - Copies the current shell in the fork

exit **value** - Exits the script with **value** exit code

-n ***variable*** - decides if variable is not empty

-z ***variable*** - Decides if variable is empty

$? - Stands for the previous exit code

$# - 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 **directoryName** is a directory

$1, $2, $3 - Refers to the first, second, and third arguments

-eq - means ==

-lt - Means <

-le - Means <=

-gt - Means >

-ge - Means >=

dirname - Prints directory name of of argument

Scripting (cont)

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 ll = 'ls -l' - Creates the ll 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

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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

ls - 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

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

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