Linux Training 2 cheat sheet

Find command

find [filepath] [options] [argument]

find [filepath] -name [filename]

-> search for filename inside the directory

find [filepath] -ctime 1

-> search for files that changed for last 1 day inside filepath

find [filepath] -atime 1

-> search for files that accesed for last 1 day inside filepat

find [filepath] -empty

-> search for empty files inside filepath

find [filepath] [option] -type [f|d] [filename]

-> search for files according to the file type f for file d for directory

find [filepath] [options] -exec [command] {}\;

-> finding file according to the options and execute command for the file

Ex: # find [filepath] -empty –type f exec rm –rf {}\;

File globbing

ls *.txt

ls test.*

ls ?.txt

ls ????.txt

ls test?.txt

ls [Pp]*.txt

ls [Ww]ether[Rr]eport[1-5]?*

ls [^W]ether[^R]eport[1-5]?*

ls /dir/*

ls [star]*

Message Digest

```
# md5sum [file] > test.md5
# md5sum [file] -c test.md5
# sha256sum [file] > test.sha256
# sha256sum [file] -c test.sha256
# sha512sum [file] > test.sha512
# sha512sum [file] -c test.sha512
```

sort command:

```
# sort [file]          # sort –n [file] -> number
# sort –t "," -k2 [file] -> delimeter type and column to sort
# sort –u [file]
```

unique command

```
# uniq [file]       # uniq –c [file]
# uniq --group [file]
```

tr command

```
# cat [file] | tr "," "|"
# cat [file] | tr –d ","
# cat [file] | tr 'A-Z' 'a-z'
```

cut command:

```
# cut –d [delimeter] -f [#ofColumns] [file]
# cat [file] list.csv | tr ['delimiter'] ['delimiter'] | cut –f [#ofColumns]
```

paste command

paste [file] [file]

paste –d [file] [file]

paste –s -d [delimiter] [file] [file]

sed tool:

sed -i 's/[Str1]/[Str2]/g' [file]

-> changes Str1 to Str2 globally (whole the file)

If -i flag doesn't use it don't changed the file you have the redirect output to a file to save changes

split command:

split [file] # split –b [#] [file]

split –d –n2 [file] # split –d --verbose –n[#] [file]

Declaring local variable

var="variable" # echo $var

bash # echo $var

Making a variable an environment variable

export var="variable" # echo $var

bash # echo $var

Unsetting an environment variable

unset var

/etc/profile file can be used to adding collecting customed environment variable

Affecting just user environment variable enter add variable to the ~/.bash_profile file

stdin,stdout,stderr

cat < [file]

echo "hello,world!" > [file]

echo "hello, world!" >> [file] ->appends the file

error 2> error.txt # error 2> /dev/null

error > error.txt 2>&1 -> combining redirection of stdin and stdout

tee command: Redirects stdin to a file and terminal

[command] > tee [file]

xargs command: execute a command to redicted stdin

find [filepath] [options] > xargs –I {} [command] {}

find [filepath] [options] > xargs –I {} mv {} [filepath]

Shortcuts

Ctrl+a / Home -> Moves the cursor to the beginning of the

command line
Ctrl+e / End -> Moves the cursor to the end of the command line
Ctrl+u -> Erase the entire line
Ctrl+k -> Erase from the cursor to the end of the command line
Alt+f -> Moves the cursor to the right one word at a time
Alt+b -> Moves the cursor to the left one word at a time
Ctrl+f / Right arrow -> Moves the cursor to the right one character at a time
Ctrl+b / Left arrow -> Moves the cursor to the left one character at a time

alias command

alias aliascommand='command'

unalias aliascommand

.bashrc

Process commands

ps –eH | less

ps –u [username]

ps –ef

ps –o [colons]

ps –C [sshd]

free command

free –h

pgrep command

pgrep [processName]

pgrep –a [processName]

pgrep –u [username]

kill command:

kill [PID]

kill –[signalValue] [PID]

pkill [processName]

killall [processName]

jobs command:

jobs –l

at command:

at [hh:mm(pm|am)] [mm/dd/yy]

Enter command to execute at the specified time.

at –l -> list scheduled jobes

at –c [jobID] -> check scheduled job script

at –d [jobID] -> delete scheduled job

crontab:

crontab –e -> it will open a file and add the cron table and command save and quit from the file

crontab –l -> list the scheduled jobs

crontab –r -> remove all scheduled jobs

Modifying or deleting a scheduled job # crontab -e