

# LINUX COMMAND LINE CHEAT-SHEET

#### LS COMMAND

list the contents of the current working directory.

Command: Is

Options:

-a: show all (Including hidden)

-R: recursive list

-r: reverse order

-t: sort by last modified

-S: sort by file size

-I: long listing format

-1: one file per line

-m: comma separated output

#### **BASH COMMANDS**

Automate software development tasks.

Commands:

username -a: show system

and kernel

head -n1/etc/issue: show

distribution

mount: show mounted file

systems

date: show system date

uptime: show uptime

whoami: show your username

man command: show manual

for command

## **PIPES**

Takes the standard output of one process and passes it as standard input into another process

Commands:

cmd1 | cmd2 : stdout of cmd1

to cmd2

cmd1 | &cmd2 : stderr to cmd2

#### FILE PERMISSIONS

Determine who can access files and directories on a system

Commands: chmod octal file

4 - read (r)

2 - write (w)

1 - execute (x)

Order: user/group/others

chmod 777 file: rwx permission for everyone

chmod 755 file: rw for user, rx

for group and others

chown usr:grp file : change the file owner to user and group to

group

#### **NETWORKING**

Commands related to networks

Commands:

ping host: ping host

whois domain: get whois for

fomain

dig domain: get DNS for

domain

dig -x host : reserve lookup

host

wget file: download file

wget -c file: continue stopped

download

wget -rurl: recursively download files from url

curl url: outputs the webpage from url

curl -o.meg.htlm url: writes

the page to meg.htlm

ssh user@host : connect to

host as user

ssh -p port user@host:

connect using port

ssh -i path-to-pem-file ubuntu@ip-address: used to

connect amazon ec2

-i: identity file

#### **IO REDIRECTION**

Redirecting input / output

Command:

cmd < file : input of cmd from file

cmd1 < cmd2 : output of cmd2 as

file input to cmd1

cmd > file : standard output (stdout) of cmd as input to file

cmd: display standardoutput of

cmd >> file : append stdout to file

cmd2 > file : error output (stderr)

of cmd to file

cmd > &2 : stdout to same place as

stderr

cmd 2 > &1: stderr to same place

as stdout

cmd &> file : every output of cmd

#### **BASH VARIABLES**

Temporary storage for string or number.

Commands:

env: show environment

variables

echo \$NAME: output value of

\$NAME variable

\$PATH: executable search

path

\$HOME: home directory

\$SHELL: current shell

#### **DIRECTORY**

Commands for working with directories

Commands:

pwd: show current working

directory

mkdir dir: make directory dir

cd dir: change directory to dir

cd .. : go up a directory

Is: list files

# **SEARCH FILES**

Commands to search for files

Commands:

grep pattern files : search for pattern in files

grep -i : case in-sensitive search

grep -r : recursive search

grep -v: inverted search

grep -o : show matched part of the file only

find /dir/ -user name : find files owned by name in dir

find /dir/ -name name\* : find files starting with name in dir

find /dir/ -mmin num : find files modifed less than num minutes ago in dir

whereis command : find binary / source / manual for command

locate file : find file (quick search

of system index)

# **FILE OPERATIONS**

Commands for working with files

Command:

touch file1 : create file1

cat file1 file2 : concatenate files

and output

less file1 : view and paginate file1(one page per time)

file file1 : get type of file1

cp file1 file2 : copy file1 to file2

mv file1 file2: move file1 to

file2

rm file1 : delete/remove file1

head file 1: shows first 10 lines

of file1

tail file1: show last 10 lines of

file1

tail -f file1: output last lines of

file1 as it changes

## **PROCESS**

Viewing and managing processes

Commands:

ps: show snapshot of

processes

top: show real time processes

kill pid: kill process with id pid

pkill name: kill process with

name "name"

killall name: kill all processes

start with name