Linux Command Line Cheatsheet

File Commands

ls - List the content of the current directory

ls -R - List the subdirectories recursively

ls -a - List all the content, including hidden files

ls -l - List the content and its information

pwd - Output the current directory that you are in

cd folder1 – Change the working directory to *folder1*

cd - Return to the $Home directory

cd .. - Go up a directory

cd - - Return to the previous directory

cp source destination – Copy *source* to *destination*

cp -r source destination – Copy a folder recursively from *source* to *destination*

mv source destination - Move (or rename) a file from *source* to *destination*

rm file1 - Remove *file1*

rm -f file1 - Remove *file1* without prompt

rm -r folder - Remove a folder and its content recursively

mkdir foldername – Create a new folder *foldername*

rmdir foldername – Remove an empty folder

file file1 – Show the file type of *file1*

cat file1 file2 – Concatenate *file1* to *file 2*

cat > file1 – Concatenate standard input to *file1*

less file1 - View and paginate *file1*

head file1 - Show first 10 lines of *file1*

tail file1 - Show last 10 lines of *file1*

chmod 777 file - Change file permission of *file* to *777*

chown user:group file - Change ownership of *file* to *user* and group *group*

ln -s source destination – Create a symbolic link from *source* to *destination*

File Encryption and Compression

gpg -c file - Encrypt *file*

gpg file.gpg - Decrypt *file.gpg*

tar -cf archive.tar foo bar - Create *archive.tar* from files *foo* and *bar*

tar -xf archive.tar - Extract all files from *archive.tar*.

System Commands

uname -a - Show system and kernel

head -n1 /etc/issue - Show distribution

mount - Show mounted filesystems

date - Show system date

uptime - Show system uptime

whoami - Show your username

w - Display who is online

man command - Show manual for *command*

mount -o loop cdrom.iso /mnt/dir - Mount *cdrom.iso* at */mnt/dir*

cat /proc/partitions - Show all partitions registered on the system

grep MemTotal /proc/meminfo - Show RAM total seen by the system

grep "model name" /proc/cpuinfo - Show CPU(s) info

lspci -tv - Show PCI info

lsusb -tv - Show USB info

!! - Repeat the last command

exit – Log out of current session

File Searching Commands

grep pattern files - Search for *pattern* in *files*

grep -i - Case insensitive search

grep -r - Recursive search

grep -v - Inverted search

grep -o - Show matched part of file only

locate file1 - Find *file1*

whereis command - Find binary/source /manual for *command*

which app – Locate a command for the *app*

look string file1 - Display any lines in *file1* which contain *string* as a prefix.

find /dir/ -user name - Find *files* owned by name in *dir*

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

find /dir/ -name name* - Find *files* starting with *name* in *dir*

tar -czf archive.tar.gz foo bar - Create *archive.tar.gz* from files *foo* and *bar*, with Gzip compression

tar -xzf archive.tar.gz - Extract a tar using Gzip

tar -cjf archive.tar.bz2 foo bar - Create *archive.tar.bz2* from files *foo* and *bar*, using Bzip2 compression.

tar -xjf archive.tar.bz2 – Extract a tar using Bzip2

gzip file1 – Compress *file1* and rename it to *file1.gz*

gzip -d file1.gz – Decompress *file1.gz*

SSH

ssh $USER@$HOST – Connect to *$Host* as *$USER*

ssh $USER@$HOST command - Run *command* on *$HOST* as *$USER*

ssh $USER@$HOST -p 1234 – Connect to *$HOST* as *$USER* on port *1234*

scp file1 $USER@$HOST:file1 – Secure copy *file1* from local machine to *file1* at remote *$HOST*

scp $USER@$HOST:file1 file1– Secure copy *file1* from remote *$HOST* to *file1* at local machine

scp -r foo $USER@$HOST:/bar – Secure copy the folder *foo* from local machine to the folder *bar* at remote *$HOST*

Package Installation

dpkg -i package.deb - Install a deb package

rpm -Uvh package.rpm – Install a rpm package

Process Management

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 with names beginning *name*

Keyboard Shortcuts

Ctrl + Shift + c - Copy a highlighted text

Ctrl + Shift + v – Paste a copied text

Ctrl + z - Sleep program

Ctrl + c – Stop current command

Ctrl + r – Start a search

Ctrl + u – Cut from start of line

Ctrl + k – Cut to end of line

Ctrl + a – Go to start of line

Ctrl + e – Go to end of line

Disk Space

df -h - Show free space on mounted filesystems

df -i - Show free inodes on mounted filesystems

du -h folder – Show file usage of each folder in *folder*

du -sh folder – Show the total file size of *folder*

fdisk -l - Show disks partitions sizes and types (run as root)

free – Show memory and swap usage

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