**LINUX COMMAND CHEAT SHEET**

*Fundamental Linux commands to remember*

**ls** - List the content of the current directory uname -a - Show system and kernel

**ls -R** - List the subdirectories recursively head -n1 /etc/issue - Show distribution

**ls -a** - List all the content, including hidden files mount - Show mounted filesystems

**ls -l** - List the content and its information date - Show system date

**pwd** - Output the current directory that you are in uptime - Show system uptime

**cd folder1** – Change the working directory to folder1 whoami - Show your username

**cd** - Return to the $Home directory w - Display who is online

**cd ..** - Go up a directory man command - Show manual for command

**cd -** - Return to the previous directory

**mount -o loop cdrom.iso /mnt/dir - Mount cdrom.iso at cp source destination – Copy source to destination**

*/mnt/dir*

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

example: cp –r /home/user/Desktop

**File Commands System Commands**

**File Searching Commands**

**File Encryption and Compression**

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

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

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

**rm file1 -** Remove file1 grep "model name"

**cat /proc/cpuinfo -** Show CPU(s) info

**rm -f file1** - Remove file1 without prompt lspci -tv - Show PCI info

**rm -r folder** - Remove a folder and its content recursively lsusb -tv - Show USB info

**mkdir foldername** – Create a new folder foldername !! - Repeat the last command

**rmdir foldername** – Remove an empty folder exit – Log out of current session

**file file1** – Show the file type of file1

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

**cat > file1** – Concatenate standard input to file1 grep pattern files - Search for pattern in files

**less file1** - View and paginate file1 grep -i - Case insensitive search

**head file1** - Show first 10 lines of file1 grep -r - Recursive search

**tail file1** - Show last 10 lines of file1 grep -v - Inverted search

**chmod 777 file** - Change file permission of file to 777 grep -o - Show matched part of file only

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

**locate file1 -** Find file1

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

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

**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

**gpg -c file -** Encrypt file

**find /dir/ -mmin num -** Find files modifed less than num gpg file.gpg - Decrypt file.gpg

minutes ago in dir

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

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

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

**Process tar -czf archive.tar.gz foo bar -** Create archive.tar.gz from files

Management foo and bar, with Gzip compression

**ps** - Show snapshot of processes

**tar -xzf archive.tar.gz** - Extract a tar using Gzip top - Show real time processes

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

**Keyboard Shortcuts**

**SSH**

**Disk Space**

**Package Installation**

**kill pid** - Kill process with id pid

**pkill name** - Kill process with name name

**tar -xjf archive.tar.bz2** – Extract a tar using Bzip2 killall name - Kill all processes with names beginning name

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

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

**Ctrl + Shift + c** - Copy a highlighted text

**Ctrl + Shift + v** – Paste a copied text

**ssh $USER@$HOST** – Connect to $Host as $USER Ctrl + z - Sleep program

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

**Ctrl + c** – Stop current command

**Ctrl + r** – Start a search

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

**Ctrl + u** – Cut from start of line

**Ctrl + k** – Cut to end of line

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

**Ctrl + a** – Go to start of line

**Ctrl + e** – Go to end of line

**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

**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

**dpkg -i package.deb** - Install a deb package fdisk -l - Show disks partitions sizes and types (run as root)

**rpm -Uvh package.rpm** – Install a rpm package free – Show memory and swap usage