

MATT'S BASIC LINUX COMMANDS

FILES & DIRECTORIES

mkdir -p Create directory & Parent
touch Create a new file
cat -s View file contents stdout
tac Reverse file contents
rm -r Remove files Recursively
mv -r Move/Rename Recursively
cp -r Copy directory
find Search for file or directory

COMPRESS & EXTRACT

tar -cf dir.tar dir Create archive
tar -cfz dir.tar dir Create a gzip tar
gzip file-name Gzip file
gunzip file.gz Gunzip file
tar -xf file-name /dir Extract tar to /directory

OPTIONS:

-c Create		--keep-old-files
-x Extract		--overwrite
-f Regular file type		--append
-d Directory file type		--verify

MISC

wc -l Count the lines in a file
sudo !! Repeats last command
diff file1.txt file2.txt Diff two files
cat file > a.txt > redirects
cat file >> a.txt >> appends
gpg -c file Encrypts a file
gpg file.gpg Decrypts a file
passwd Change your password
CTRL+A Goto Start of line
CTRL+E Goto End of line
nohup command Immune to hangup signal

GREP – Globally / Regular Expression / Print

grep -r pattern dir

-i, --ignore-case
-f, --file=file Take patterns from file
-w, --word-regexp Match only whole words
-x, --line-regexp Match only whole lines
-v, --invert-match Non-matching lines
-n, --line-number Print line # w/ output lines
-H, --with-filename Print file name w/ output
-B, --before-context=NUM Print before text
-A, --after-context=NUM Print after text
-C, --context=NUM Print num context
-r, --recursive
-c, --count

HELP

man & apropos

FILE NAVIGATION

ls -l *.jpg List all .jpg files
ls -a List all files including hidden

FILE PERMISSIONS & OWNERSHIP

chmod Change permissions to execute
chown Change file owner
chmod -R 755 dir
chown <user> /u Change owner of /u to <user>
chmod +x file Make file executable

SYSTEM RESOURCE MANAGEMENT

sudo apt-get install htop – A better ‘top’
nice (- is better) Start a process with priority
renice Change ‘nice’ value
kill -n Terminate process
echo \$VAR Display variable

HARDWARE INFORMATION

lspci List pci info
cat /proc/meminfo See RAM info
lshw List hardware info
lshw -C memory -short Detect RAM info
hwinfo List hardware
lsusb List USB devices
lsmod Find modules loaded

reboot Reboot the system
poweroff -now Shut down

INSTALL SOURCE CODE

./configure
make & make install

FILE UTILITIES

tr -d Translate/delete character
uniq -c -u Omit repeated lines
split -l Split file into pieces
cut -f Cut section(s) field(f)
sort -n Sort lines

BASH SCRIPTS

1. Add: **#!/bin/bash** *Crunch-Bang Bin-Bash*
2. Save file: **file-name.sh**
3. Use: **chmod +x file-name**
4. Run: **./file-name**