

BASIC BASH COMMANDS

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HELP

man command

apropos command

FILE & DIRECTORIES

ls -l *.jpg List all .jpg files

ls -a List All including hidden

pwd Present working directory

cd Change directory

mkdir -p Create directory & Parent

touch Create a new file

cat View file contents

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

tar -xf file.name /dir Extract tar to /directory

gzip file-name Gzip file

gunzip file.gz Gunzip file

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 !! Redo last command w/ sudo

diff f1.txt f2.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

INSTALL SOURCE CODE

./configure

make & make install

FILE PERMISSIONS & OWNERSHIP

chmod Change permissions to execute

chown Change file owner

chgrp Change file grouping

chmod -R 755 dir

chown <user> /u Change owner of /u to <user>

chmod +x f.ext Make file executable

USER MANAGEMENT

useradd Adding new user

adduser High level Adding new user

deluser Delete user account

usermod Modify user account

groupadd Create new group

delgroup Delete group

SYSTEM RESOURCE MANAGEMENT

sudo apt-get install htop A better 'top'

free -m Show memory in use

top List processes

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

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** #AKA Crunch-Bang

2. *Save file:* **file-name.sh**

3. *Use:* **chmod +x file-name**

4. *Run:* **./file-name**

GREP – Globally / Regular Expression / Print

grep -r pattern dir

-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	
-i, --ignore-case	