|  |  |
| --- | --- |
| **BASIC BASH COMMANDS**  mcurcio@duck.com ver: 7/23  **HELP**  [**man** command](https://linuxconfig.org/how-to-use-man-linux-command)  [**apropos** command](https://linuxconfig.org/apropos)  **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**  **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** | **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 |