

# Comandos mais usuais

#### **1.** Is

```
christian@NoteChris:/$ ls
bin dev home lib lib64 media opt root sbin srv <mark>tmp</mark> var
boot etc init lib32 libx32 mnt proc run snap sys usr
```

Faz uma lista de todos os arquivos do diretório;

## 2. Is -I

```
:hristian@NoteChris:/$ ls -l
total 632
1rwxrwxrwx
                                       2021 bin -> usr/bin
                             7 Aug 19
            1 root root
                           512 Aug 19
                                       2021 boot
                           512 Sep 14 10:55 dev
           1 root root
           1 root root
                           512 Sep 14 10:55 etc
drwxr-xr-x
drwxr-xr-x
                           512 Sep
                                    5 13:35 home
            1 root root
            1 root root 644432 Jul
                                   6 21:29 init
Lrwxrwxrwx
           1 root root
                             7 Aug 19
                                       2021 lib -> usr/lib
                             9 Aug 19
                                       2021 lib32 -> usr/lib32
lrwxrwxrwx 1 root root
                                       2021 lib64 -> usr/lib64
                            9 Aug 19
lrwxrwxrwx 1 root root
lrwxrwxrwx 1 root root
                            10 Aug 19
                                       2021 libx32 -> usr/libx32
                           512 Aug 19
                                       2021 media
drwxr-xr-x 1 root root
                           512 Aug 23 10:28 mnt
drwxr-xr-x 1 root root
           1 root root
                           512 Aug 19
                                       2021 opt
drwxr-xr-x
dr-xr-xr-x 9 root root
                             0 Sep 14 10:55 proc
drwx----
            1 root root
                           512 Aug 19
                                       2021 root
                           512 Sep 14 11:00 run
drwxr-xr-x
           1 root root
                             8 Aug 19
                                       2021 sbin -> usr/sbin
                           512 Aug 19
                                       2021 snap
drwxr-xr-x
           1 root root
drwxr-xr-x
           1 root root
                           512 Aug 19
                                       2021 srv
                             0 Sep 14 10:55 sys
dr-xr-xr-x 12 root root
drwxrwxrwt
            1 root root
                           512 Sep
                                    5 13:49
drwxr-xr-x
           1 root root
                           512 Aug 31 11:33 usr
                           512 Aug 19
                                       2021 var
drwxr-xr-x 1 root root
```

Lista todos os tipos de arquivos e permissões;

**3.** df

Comandos Linux

```
hristian@NoteChris:/$ df
ilesystem
              1K-blocks
                            Used Available Use% Mounted on
ootfs
              233777768 76587716 157190052
                                             33% /
              233777768 76587716 157190052 33% /dev
none
              233777768 76587716 157190052 33% /run
none
              233777768 76587716 157190052 33% /run/lock
none
              233777768 76587716 157190052 33% /run/shm
none
              233777768 76587716 157190052
                                             33% /run/user
none
                                             33% /sys/fs/cgroup
tmpfs
              233777768 76587716 157190052
              233777768 76587716 157190052 33% /mnt/c
C:\
```

Mostra o quanto espaço foi utilizado no disco rígido;

## **4.** top

```
top - 11:21:35 up 26 min, 0 users, load average: 0.52, 0.58, 0.59
                  1 running, 3 sleeping,
                                               0 stopped,
        4 total,
                                                            0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0
MiB Mem : 16273.7 total, 11716.4 free, 4333.4 used,
                                                           224.0 buff/cache
MiB Swap: 28537.3 total, 28530.6 free,
                                              6.8 used.
                                                         11809.8 avail Mem
               PR
 PID USER
                   NI
                          VIRT
                                  RES
                                         SHR S
                                               %CPU %MEM
                                                               TIME+ COMMAND
                                         284 S
                20
                          8952
                                  328
                                                 0.0
                                                       0.0
                                                             0:00.10 init
    1 root
                     0
                                         184 S
                                                       0.0
    7 root
                20
                     0
                          8952
                                  228
                                                 0.0
                                                             0:00.00 init
     christi+
                20
                     0
                         18076
                                 3624
                                        3524 S
                                                 0.0
                                                       0.0
                                                             0:00.24 bash
   80 christi+
                20
                     0
                         18944
                                 2168
                                        1520 R
                                                 0.0
                                                       0.0
                                                             0:00.01 top
```

Como se fosse um gerenciador de tarefas mostrando informações básicas de uso do sistema;

## **5.** cd

```
christian@NoteChris:~$ cd / christian@NoteChris:/$ _
```

Acessa uma determinada pasta;

## 6. mkdir

```
christian@NoteChris:/$ sudo mkdir Chris
[sudo] password for christian:
christian@NoteChris:/$ cd Chris
christian@NoteChris:/Chris$
```

Mk de "Make" (criar/fazer) Dir de "directory" (diretório), sendo assim criando um diretório;

## **7.** rm

Comandos Linux

```
christian@NoteChris:~$ ls
christian@NoteChris:∼$ sudo mkdir Chris2
:hristian@NoteChris:~$ ls
Chris2
:hristian@NoteChris:~$ cat
`C
christian@NoteChris:~$ cat > teste.txt
ls
١Z
[1]+ Stopped
                               cat > teste.txt
christian@NoteChris:~$ ls
Chris2 teste.txt
christian@NoteChris:~$ rm
rm: missing operand
Try 'rm --help' for more information.
christian@NoteChris:~$ rm teste.txt
christian@NoteChris:~$ ls
Chris2
```

Remove um determinado arquivo;

**8.** rm –r

```
christian@NoteChris:~$ rm -r Chris2
rm: remove write-protected directory 'Chris2'?
christian@NoteChris:~$ _
```

Remove um diretório com conteúdo;

9. rmdir

```
christian@NoteChris:~$ rmdir Chris2
christian@NoteChris:~$ ls
christian@NoteChris:~$ __
```

Remove um diretório sem conteúdo;

10. cat

Abre um arquivo desejado;

Comandos de Controle e Acesso(2):

11.exit

```
christian@NoteChris:~$ exit
logout
There are stopped jobs.
```

Para todos os trabalhos e sai do usuário que está sendo usado;

12. logout

Comandos Linux

Fecha o Ubuntu parando todas atividades;

## 13. passwd

```
christian@NoteChris:~$ passwd
Changing password for christian.
Current password:
New password:
Retype new password:
You must choose a longer password
New password:
Retype new password:
Retype new password:
Bad: new and old password must differ by more than just case
New password:
Retype new password:
Retype new password:
passwd: password updated successfully
```

Dá permissão para a criação de uma nova senha;

#### 14.ssh

Faz uma conexão dentro de um servidor remoto, pedindo alguns detalhes antes de tentar entrar:

Comandos de Ajuda e Documentação(3)

15.apropos

Comandos Linux

```
teChris:~$ apropos
apropos what?
 hristian@NoteChris:~$ apropos ls
llseek (2) - reposition read/write file offset
 llseek (2)
                        - add shells to the list of valid login shells
add-shell (8)
afs_syscall (2)
assert (3)
                              unimplemented system callsabort the program if assertion is false
auth_destroy (3)
                               - library routines for remote procedure calls
authnone_create (3) - library routines for remote procedure calls
authunix_create (3) - library routines for remote procedure calls
authunix_create_default (3) - library routines for remote procedure calls
backtrace_symbols (3) - support for application self-debugging
backtrace_symbols_fd (3) - support for application self-debugging
blockdev (8) - call block device ioctls from the command line
blockdev (8)
break (2)
callrpc (3)
                                - unimplemented system calls
                               - library routines for remote procedure calls
clnt broadcast (3) - library routines for remote procedure calls
                               - library routines for remote procedure calls
- library routines for remote procedure calls
clnt_call (3)
clnt_control (3)
clnt_create (3)
                               - library routines for remote procedure calls
                               - library routines for remote procedure calls
- library routines for remote procedure calls
clnt_destroy (3)
clnt_freeres (3)
:Int geterr (3)
                                - library routines for remote procedure calls
clnt_pcreateerror (3) - library routines for remote procedure calls clnt_perrno (3) - library routines for remote procedure calls
lnt_perror (3)
                               - library routines for remote procedure calls
clnt_spcreateerror (3) - library routines for remote procedure calls
clnt_sperrno (3) - library routines for remote procedure calls
clnt_sperror (3) - library routines for remote procedure calls
clntraw_create (3)
clnttcp_create (3)
                               - library routines for remote procedure calls - library routines for remote procedure calls
Intudp_bufcreate (3) - library routines for remote procedure calls
clntudp_create (3)
console_ioctl (4)
                               - library routines for remote procedure calls
- ioctls for console terminal and virtual consoles
redentials (7)
                                - process identifiers
dircolors (1)
                               - color setup for ls
                               - obtain address of a symbol in a shared object or executable
dlsym (3)
eatmydata (1)
endusershell (3)
false (1)
fattach (2)
fdetach (2)
                               - transparently disable fsync() and other data-to-disk synchronization cal
                               - get permitted user shells
                               - do nothing, unsuccessfully
                               - unimplemented system calls
fdetach (2) - unimplemented system calls
get_kernel_syms (2) - retrieve exported kernel and module symbols
```

Apropos ajuda na localização de um determinado código;

**16.** info

```
Eile: dir,
                Node: Top,
                               This is the top of the INFO tree.
This is the Info main menu (aka directory node).
A few useful Info commands:
  'q' quits;
'H' lists all Info commands;
  'h' starts the Info tutorial;
  'mTexinfo RET' visits the Texinfo manual, etc.
  Menu:
Basics
Common options: (coreutils)Common options.
 <u>Coreutils</u>: (coreutils). Core GNU (file, text, shell) utilities. 
<u>Date input formats</u>: (coreutils)Date input formats.
                                  The GNU line editor
  Ed: (ed).
 File permissions: (coreutils)File permissions.
                                  Access modes.
* Finding files: (find).
                                  Operating on files matching certain criteria
Compression
                                  General (de)compression of files (lzw).
* Gzip: (gzip).
Editors
* nano: (nano).
                                  Small and friendly text editor.
General Commands
                                  Full-screen window manager.
Screen: (screen).
GNU organization
* Maintaining Findutils: (find-maint).
                                  Maintaining GNU findutils
GNU Utilities
                                  X.509 CRL and OCSP client.
* dirmngr-client: (gnupg).
* dirmngr: (gnupg).
                                  X.509 CRL and OCSP server.
                                  The secret key daemon.
* gpg-agent: (gnupg).
 gpg2: (gnupg).
                                  OpenPGP encryption and signing tool.
                                  S/MIME encryption and signing tool.
 gpgsm: (gnupg).
Individual utilities
-----Info: (dir)Top, 180 lines --Top------
Welcome to Info version 6.7. Type H for help, h for tutorial.
```

Da uma informação geral de algum arquivo ou diretório;

# **17.** man

Comandos Linux

Man de "manual", sempre ajudando pessoas que não conhecem algum código;

#### 18. whatis

```
christian@NoteChris:~$ whatis man
man (7) - macros to format man pages
man (1) - an interface to the system reference manuals
```

Descreve o que um comando faz ou é;

#### 19. whereis

```
christian@NoteChris:~$ whereis man page
man: /usr/bin/man /usr/local/man /usr/share/man /usr/share/man/man1/man.1.gz /usr/share/man/man7/man.7
page:
```

Localiza a página de ajuda de algum código fonte;

Comandos de Edição de Texto(4)

#### **20.** nano

The nano editor is designed to emulate the functionality and ease-of-use of the UW Pico text editor. There are four main sections of the editor. The top line shows the program version, the current filename being edited, and whether or not the file has been modified. Next is the main editor window showing the file being edited. The status line is the third line from the bottom and shows important messages. The bottom two lines show the most commonly used shortcuts in the editor.

Shortcuts are written as follows: Control-key sequences are notated with a '^' and can be entered either by using the Ctrl key or pressing the Esc key twice. Meta-key sequences are notated with 'M-' and can be entered using either the Alt, Cmd, or Esc key, depending on your keyboard setup. Also, pressing Esc twice and then typing a three-digit decimal number from 000 to 255 will enter the character with the corresponding value. The following keystrokes are available in the main editor window. Alternative keys are shown in parentheses:

```
(F1)
                 Display this help text
G
                 Close the current buffer / Exit from nano
Write the current buffer (or the marked region) to disk
       (F2)
       (F3)
                  Insert another file into current buffer (or into new buffer)
       (Ins)
                 Search forward for a string or a regular expression
       (F6)
       (M-R)
                 Replace a string or a regular expression
       (F9)
                 Cut current line (or marked region) and store it in cutbuffer
       (F10)
                 Paste the contents of cutbuffer at current cursor position
                  Justify the current paragraph
       (F4)
       (F12)
                  Invoke the spell checker, if available
       (F11)
                 Display the position of the cursor
                 Go to line and column number
       (M-G)
1-U
                 Undo the last operation
4-E
                 Redo the last undone operation
1-A
       (^{6})
                 Mark text starting from the cursor position
       (M-^{\wedge})
1-6
                 Copy current line (or marked region) and store it in cutbuffer
                 Go to the matching bracket
```

Editor de texto com orientação de tela;

#### **21.** vi

```
QAP professor Márcio_
~
~
```

Editor de texto que usa a tela inteira (bloco de notas);

#### **22.** vim

```
Olá Professor Márcio_
~
~
```

Editor de texto melhorado que usa a tela inteira (bloco de notas);

Comandos Linux

Comandos de Gestão de Arquivos e Diretórios (5)

#### 23.chmod

```
christian@NoteChris:/$ cd
christian@NoteChris:~$ cat > texto1.txt
^C
christian@NoteChris:~$ ls
texto1.txt
christian@NoteChris:~$ ls -l
total 0
-rw-r--r-- 1 christian christian 0 Sep 14 13:28 texto1.txt
christian@NoteChris:~$ chmod ug+rw texto1.txt
christian@NoteChris:~$ ls -l
total 0
-rw-rw-r-- 1 christian christian 0 Sep 14 13:28 texto1.txt
```

Muda a proteção total de uma pasta ou arquivo;

## 24.cmp

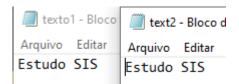
```
christian@NoteChris:/mnt/c/Users/Public$ cmp texto1.txt text2.txt
texto1.txt text2.txt differ: byte 1, line 1
```

Compara dois arquivos;

#### **25.** comm

Seleciona linhas comuns de dois arquivos;

#### **26.**cp



Copia uma arquivo para o outro;

#### **27.** diff

```
christian@NoteChris:/mnt/c/Users/Public$ diff texto1.txt text2.txt
1c1
< SIS é a nossa formação acadêmica
\ No newline at end of file
---
> Gosto da matéria de SOS
\ No newline at end of file
```

Compara dois arquivos de classificação ASCII;

## **28.** file

```
christian@NoteChris:/mnt/c/Users/Public$ file texto1.txt
texto1.txt: UTF-8 Unicode text, with no line terminators
```

Comandos Linux

Mostra informação sobre o tipo de arquivo;

# **29.** grep

```
DESCRIPTION
grep searches for PATTERNS in each FILE. PATTERNS is one or more patterns separated by newline characters, and grep prints each line that match pattern. Typically PATTERNS should be quoted when grep is used in a shell command.

A FILE of "-" stands for standard input. If no FILE is given, recursive searches examine the working directory, and nonrecursive searches read star input.

In addition, the variant programs egrep, fgrep and rgrep are the same as grep -E, grep -F, and grep -r, respectively. These variants are deprecated, are provided for backward compatibility.

CNTISTIAN@NOTECHTIS:/mnt/c/Users/Public$ grep -1 "1" texto1.txt

SIS é a nossa formação acadêmica

Sis
```

Cria um filtro com relação ao que o usuário pede, como por exemplo na imagem, o fitro da letra "i" dentro dos dois blocos de nota/arquivo .txt;

# **30.** gzip

```
christian@NoteChris:/mnt/c/Users/Public$ gzip texto1.txt
christian@NoteChris:/mnt/c/Users/Public$ ls
AccountPlictures Chris Desktop bocuments Downloads libraries Music Mictures Videos desktop.ini text2.txt texto1.txt
```

Comprime ou expande o arquivo;

## **31.** Isof

Cria uma lista com os arquivos abertos;

## **32.** mv

```
christian@NoteChris:/mnt/c/Users/Public$ mv SIS "texto1.txt"
christian@NoteChris:/mnt/c/Users/Public$ ls
froum:Pirtures these Desktop Documents bownloads Withensier music Pirtures Wideos desktop.ini text2.txt texto1.txt
```

Renomeia ou move arquivos ou diretórios;

## 33.stat

Comandos Linux

Mostra o status de um arquivo;

#### 34.sort

```
christian@NoteChris:/mnt/c/Users/Public$ sort texto1.txt text2.txt
Gosto da matéria de SOS
OI
```

Mostra o a ordem de dois ou mais arquivos em relação aos dados;

#### 35. WC

```
christian@NoteChris:/mnt/c/Users/Public$ wc text2.txt
0 5 24 text2.txt
```

Conta linhas dentro de um arquivo .txt;

Comandos de Transferência de Arquivos (6)

## **36.**ftp

Permite a transfêrencia de arquivos de vários hosts numa rede;

Comandos de Notícias ou Rede (7)

#### 37. netstat

```
christian@NoteChris:/mnt/c/Users/Public$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address Foreign Address State
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags Type State I-Node Path
```

Mostra o status de uma rede;

# 38. if config

```
NoteChris:/mnt/c/Users/Public$ ifconfig
eth2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 172.20.128.1 netmask 255.255.240.0 broadcast 172.20.143.255
        inet6 fe80::ffee:1680:82ff:96fd prefixlen 64 scopeid 0xfd<compat,link,site,host
        ether 00:15:5d:dd:9a:5f (Ethernet)
        RX packets 0 bytes 0 (0.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 192.168.56.1 netmask 255.255.255.0 broadcast 192.168.56.255
        inet6 fe80::7b00:52cd:4927:694a prefixlen 64 scopeid 0xfd<compat,link,site,host
        ether 0a:00:27:00:00:0f (Ethernet)
        RX packets 0 bytes 0 (0.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 1500
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0xfe<compat,link,site,host>
        loop (Local Loopback)
        RX packets 0 bytes 0 (0.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
wifi0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.18.32.173 netmask 255.255.240.0 broadcast 10.18.47.255
        inet6 fe80::39cb:e207:34f0:74da prefixlen 64 scopeid 0xfd<compat,link,site,host
        ether 64:32:a8:02:4e:be (Ethernet)
        RX packets 0 bytes 0 (0.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Mostra o ip da nossa máquina;

#### **39.** ping

```
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=65 ttl=116 time=4.64 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=66 ttl=116 time=4.64 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=67 ttl=116 time=4.38 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=68 ttl=116 time=5.63 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=69 ttl=116 time=2.77 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=70 ttl=116 time=4.64 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=71 ttl=116 time=4.96 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=71 ttl=116 time=3.79 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=73 ttl=116 time=4.78 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=74 ttl=116 time=6.84 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=75 ttl=116 time=5.66 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=75 ttl=116 time=3.60 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=76 ttl=116 time=3.99 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=78 ttl=116 time=3.99 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=78 ttl=116 time=3.99 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=78 ttl=116 time=3.61 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=80 ttl=116 time=3.35 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=81 ttl=116 time=3.32 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=81 ttl=116 time=3.32 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=81 ttl=116 time=3.32 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=81 ttl=116 time=4.25 ms
64 bytes from gru06560-in-f14.1e100.net (142.250.218.14): icmp_seq=81 ttl=116 time=4.09 ms
64 bytes from gru06560-in-f14.1e100.net (142
```

Mostra o ping de um determinado host

Comandos Linux