Prática Laboratório 1 (Linux)

Comando ls: mostra os diretórios disponíveis

```
aluno@lab-dacc-08:~$ ls
Android Documentos Imagens Música snap
'Área de Trabalho' Downloads Modelos Público Vídeos
aluno@lab-dacc-08:~$
```

Comando pwd: mostra o diretório atual

```
aluno@lab-dacc-08:~$ pwd
/home/aluno
```

Comando cat /etc/lsb-release: mostra a versão do ubuntu

```
aluno@lab-dacc-08:~$ cat /etc/lsb-release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=20.04
DISTRIB_CODENAME=focal
DISTRIB_DESCRIPTION="Ubuntu 20.04.4 LTS"
```

Comando ls -1 /bin/ls: acessa detalhes da pasta ls dentro da bin

```
aluno@lab-dacc-08:~$ ls -l /bin/ls
-rwxr-xr-x 1 root root 142144 set 5 2019 /bin/ls
```

Comando ls /etc/host*: consulta todos os arquivos com nome host

```
aluno@lab-dacc-08:~$ ls /etc/host*
/etc/hostconf /etc/hostid /etc/hostname /etc/hosts /etc/hosts.allow /etc/hosts.deny
```

Comando ls /etc/host* mostra mais detalhes do anterior

```
aluno@lab-dacc-08:~$ ls -l /etc/host*
-rw-r--r-- 1 root root 92 dez 5 2019 /etc/host.conf
-rw-r--r-- 1 root root 4 fev 23 2022 /etc/hostid
-rw-r--r-- 1 root root 12 abr 5 12:09 /etc/hostname
-rw-r--r-- 1 root root 221 abr 2 19:42 /etc/hosts
-rw-r--r-- 1 root root 411 fev 23 2022 /etc/hosts.allow
-rw-r--r-- 1 root root 711 fev 23 2022 /etc/hosts.deny
```

Comando ls -lh /bin/ls

```
aluno@lab-dacc-08:~$ ls -lh /bin/ls
-rwxr-xr-x 1 root root 139K set 5 2019 /bin/ls
```

Comando ls -al

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```
aluno@lab-dacc-08:~$ ls -al
total 120
drwxr-xr-x 23 aluno aluno 4096 set 22 15:18
            4 root root 4096 abr
drwxr-xr-x
                                     2 20:05
            4 aluno aluno 4096 abr
drwxrwxr-x
                                     7 16:34
                                               .android
            3 aluno aluno 4096 abr
                                               Android
drwxrwxr-x
                                     3 23:23
            2 aluno aluno 4096 abr
drwxr-xr-x
                                     6 10:44
                                               .anydesk
drwxr-xr-x
            2 aluno aluno 4096 abr
                                     3 23:22
            1 aluno aluno 1708 jul
                                     5 12:27
                                               .bash history
- FW-----
- - W - F - - F - -
            1 aluno aluno 220 abr
                                     2 20:05
                                               .bash logout
                                               .bashrc
- FW- F-- F--
           1 aluno aluno 3771 abr
                                     2 20:05
drwxr-xr-x 20 aluno aluno 4096 abr 28 14:32
drwx----
           25 aluno aluno 4096 set 22 15:47
                                               .config
drwxr-xr-x
            3 aluno aluno 4096 abr
                                     7 10:28
            2 aluno aluno 4096 abr
drwxr-xr-x
                                     2 20:18
                                               Downloads
1 aluno aluno
                                               .emulator console auth toke
                             16 abr
                                       10:05
                                     7
drwx----
            3 aluno aluno 4096 set 22 15:13
                                               .gnupg
           3 aluno aluno 4096 set 22 16:03
drwxr-xr-x
drwxrwxr-x 4 aluno aluno 4096 abr
                                     3 23:22
drwxr-xr-x 3 aluno aluno 4096 abr
                                     2 20:18
                                               .local
            2 aluno aluno 4096 abr
drwxr-xr-x
                                     3 22:49
                                               Modelos
            4 aluno aluno 4096 abr
                                     6 11:35
                                               .mozilla
drwx-----
drwxr-xr-x
            2 aluno aluno 4096 abr
                                     2 20:18
                                               Música
                                     7 10:35
            1 aluno aluno
                             65 abr
                                               .octave hist
- FW-----
            3 aluno aluno 4096 abr
drwx----
                                     3 23:23
                                     2 20:05
            1 aluno aluno
                            807 abr
                                               .profile
- - W - C - - C - -
            2 aluno aluno 4096 abr
                                     2 20:18
drwxr-xr-x
                                               Público
- FW - FW - F - -
            1 aluno aluno
                              2 abr
                                     6 15:20
                                               .repo_.gitconfig.json
            4 aluno aluno 4096 abr
drwx----
                                     7 16:29
            2 aluno aluno 4096 abr
                                     7
drwx-----
                                       10:39
            3 aluno aluno 4096 abr
                                     7 10:28
                                               Vídeos
drwxr-xr-x
           3 aluno aluno 4096 abr
drwxrwxr-x
                                     3 23:23
                                              .vscode
```

Comando man ls

Comando tldr ls

Comando apt install tldr

Comando cd /var/log

```
aluno@lab-dacc-08:/var/log$ pwd
/var/log
```

Comando cd~:

```
aluno@lab-dacc-08:/var/log$ cd ~
aluno@lab-dacc-08:~$ pwd
/home/aluno
```

Comando cd /var/log

```
aluno@lab-dacc-08:~$ cd /var/log
aluno@lab-dacc-08:/var/log$ cd
aluno@lab-dacc-08:~$ pwd
/home/aluno
```

Comando cd.

```
aluno@lab-dacc-08:~$ cd .
aluno@lab-dacc-08:~$ pwd
/home/aluno
```

Comando cd ..

```
aluno@lab-dacc-08:~$ cd ..
aluno@lab-dacc-08:/home$ pwd
/home
```

Comando cd -

```
aluno@lab-dacc-08:/home$ cd -
/home/aluno
aluno@lab-dacc-08:~$ pwd
/home/aluno
```

Comando cat /etc/hostname

```
aluno@lab-dacc-08:~$ cat /etc/hostname
lab-dacc-08
```

Comando more /etc/login.defs

```
aluno@lab-dacc-08:~$ more /etc/login.defs
#
# /etc/login.defs - Configuration control definitions for the login package.
#
# Three items must be defined: MAIL_DIR, ENV_SUPATH, and ENV_PATH.
# If unspecified, some arbitrary (and possibly incorrect) value will
# be assumed. All other items are optional - if not specified then
# the described action or option will be inhibited.
```

Comando head -5 /etc/passwd

```
aluno@lab-dacc-08:~$ head -5 /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
```

Comando tail -5 /etc/passwd

```
aluno@lab-dacc-08:~$ tail -5 /etc/passwd
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
aluno::1001:1001:Aluno,,,:/home/aluno:/bin/bash
lightdm:x:128:135:Light Display Manager:/var/lib/lightdm:/bin/false
nvidia-persistenced:x:127:134:NVIDIA Persistence Daemon,,,:/nonexistent:/usr/sbin/nologin
sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
```

Comando tail -f /var/log/syslog (arquivo manualLS)

```
tail: manualLS.txt: arquivo truncado
ojioajijoijLS(1) User Commands
LS(1)
NAME
ls - list directory contents
```

Comando vi Arquivo Teste.txt

```
aluno@lab-dacc-08:~$ vi ArquivoTeste.txt
aluno@lab-dacc-08:~$ dir
-al Área\ de\ Trabalho Documentos Imagens Modelos Público Vídeos
Android ArquivoTeste.txt Downloads manualLS.txt Música snap
aluno@lab-dacc-08:~$ cat A
```

Comando cat Arquivo Teste.txt

```
aluno@lab-dacc-08:~$ cat ArquivoTeste.txt
Este é um arquivo tes<u>t</u>
```

Comando nano Arquivo Teste.txt

```
aluno@lab-dacc-08:~$ nano ArquivoTeste.txt
```

```
GNU nano 4.8
Este é um arquivo tes<mark>t</mark>e 2
```

Comando cp Arquivo Teste.txt Arquivo COpia.txt

```
aluno@lab-dacc-08:~$ cp ArquivoTeste.txt ArquivoCOpia.txt
aluno@lab-dacc-08:~$ ls -lh Arquivo[C\|T]*.txt
-rw-rw-r-- 1 aluno aluno 27 set 22 17:01 ArquivoCOpia.txt
-rw-rw-r-- 1 aluno aluno 27 set 22 16:57 ArquivoTeste.txt
aluno@lab-dacc-08:~$ cat A
Android/ ArquivoCOpia.txt ArquivoTeste.txt
aluno@lab-dacc-08:~$ cat ArquivoCOpia.txt
Este é um arquivo teste 2
```

Comando cp Arquivo Teste.txt /tmp

```
aluno@lab-dacc-08:~$ cp ArquivoTeste.txt /tmp
aluno@lab-dacc-08:~$ ls -l ArquivoTeste.txt /tmp/ArquivoTeste.txt
-rw-rw-r-- 1 aluno aluno 27 set 22 16:57 ArquivoTeste.txt
-rw-rw-r-- 1 aluno aluno 27 set 22 17:04 /tmp/ArquivoTeste.txt
```

Comando my ArquivoCOpia.txt /tmp

```
aluno@lab-dacc-08:~$ mv ArquivoCOpia.txt /tmp
aluno@lab-dacc-08:~$ ls -lh /tmp/ArquivoCOpia.txt
-rw-rw-r-- 1 aluno aluno 27 set 22 17:01 /tmp/ArquivoCOpia.txt
```

Comando my Arquivo Teste.txt Arquivo Renomeado.txt

```
aluno@lab-dacc-08:~$ mv ArquivoTeste.txt ArquivoRenomeado.txt
aluno@lab-dacc-08:~$ ls -lh ArquivoRenomeado.txt
-rw-rw-r-- 1 aluno aluno 27 set 22 16:57 ArquivoRenomeado.txt
```

Comando my Arquivo Renomeado.txt /tmp/Arquivo Movido.txt

```
aluno@lab-dacc-08:~$ mv ArquivoRenomeado.txt /tmp/ArquivoMovido.txt aluno@lab-dacc-08:~$ ls -lh /tmp/ArquivoMovido.txt -rw-rw-r-- 1 aluno aluno 27 set 22 16:57 /tmp/ArquivoMovido.txt aluno@lab-dacc-08:~$
```

Comando mkdir TesteDir

```
aluno@lab-dacc-08:~$ mkdir TesteDir
aluno@lab-dacc-08:~$ cd TesteDir
aluno@lab-dacc-08:~/TesteDir$ ls -al
total 8
drwxrwxr-x 2 aluno aluno 4096 set 22 17:11 .
drwxr-xr-x 24 aluno aluno 4096_set 22 17:11 .
```

Comando rmdir TesteDir

```
aluno@lab-dacc-08:~$ rmdir TesteDir
aluno@lab-dacc-08:~$ cd TesteDir
bash: cd: TesteDir: Arquivo ou diretório inexistente
```

Comando mkdir TesteDir2

```
aluno@lab-dacc-08:~$ mkdir TesteDir2
aluno@lab-dacc-08:~$ cd TesteDir2
aluno@lab-dacc-08:~/TesteDir2$ echo "Jebediah kerman" > ArquivoTeste.txt
aluno@lab-dacc-08:~/TesteDir2$ cd ..
aluno@lab-dacc-08:~$ rmdir TesteDir2
rmdir: falhou em remover 'TesteDir2': Diretório não vazio
aluno@lab-dacc-08:~$
```

Comando rm -rf Teste

```
aluno@lab-dacc-08:~/Teste$ cd ..
aluno@lab-dacc-08:~$ rm -rf Teste
aluno@lab-dacc-08:~$ ls
-al 'Área de Trabalho' Downloads manualLS.txt Música snap
Android Documentos Imagens Modelos Público Vídeos
aluno@lab-dacc-08:~$ cd teste
bash: cd: teste: Arquivo ou diretório inexistente
```

Prática Laboratório 2 (Linux)

```
Comando ls -lh /usr/bin > ArquivoDoBin.txt
```

```
aluno@lab-dacc-08:~$ ls -lh /usr/bin > ArquivosDoBin.txt
```

Comando tail -5 Arquivos DoBin.txt

```
aluno@lab-dacc-08:~$ tail -5 ArquivosDoBin.txt
-rwxr-xr-x 1 root root 92K abr 21 2017 zipsplit
-rwxr-xr-x 1 root root 27K jan 30 2020 zjsdecode
-rwxr-xr-x 1 root root 2,2K abr 8 07:05 zless
-rwxr-xr-x 1 root root 1,8K abr 8 07:05 zmore
```

Comando echo -e ""

```
aluno@lab-dacc-08:~$ echo -e "(\(\\ \n(-.-)\no_(\")(\")"
(\(\\
(-.-)
o (")(")
```

Comando echo "primeira linha do arquivo" > Arquivo Teste.txt

```
aluno@lab-dacc-08:~$ echo "Primeira linha do arquivo" > ArquivoTeste.txt
aluno@lab-dacc-08:~$ cat ArquivoTeste.txt
Primeira linha do arquivo
```

Comando echo "Segunda linha do arquivo (so que não)" > Arquivo Teste.txt

```
aluno@lab-dacc-08:~$ echo "Segunda linha do arquivo(só que nao)" > ArquivoTeste.txt
aluno@lab-dacc-08:~$ cat ArquivoTeste.txt
Segunda linha do arquivo(só que nao)
```

Comando echo "Segunda linha do arquivo (de verdade)" >> Arquivo Teste.txt

```
aluno@lab-dacc-08:~$ echo "Segunda linha do arquivo(de verdade)" >> ArquivoTeste.txt
aluno@lab-dacc-08:~$ cat ArquivoTeste.txt
Segunda linha do arquivo(só que nao)
Segunda linha do arquivo(de verdade)
```

Comando ls ArquivoInvalido.txt ArquivoTeste.txt > LsStdout.txt

```
aluno@lab-dacc-08:~$ ls ArquivoInvalido.txt ArquivoTeste.txt > LsStdout.txt
ls: nāo foi possível acessar 'ArquivoInvalido.txt': Arquivo ou diretório inexistente
```

Comando ls ArquivoInvalido.txt ArquivoTeste.txt 2> LsStderr.txt

Comando cat LsStderr.txt

```
aluno@lab-dacc-08:~$ cat LsStderr.txt
ls: nāo foi possível acessar 'ArquivoInvalido.txt': Arquivo ou diretório inexistente
```

Comando ls ArquivoInvalido.txt ArquivoTeste.txt &> LsStdoutSdErr.txt

```
aluno@lab-dacc-08:~$ ls ArquivoInvalido.txt ArquivoTeste.txt &> LsStdoutStdErr.txt
```

Comando ls ArquivoIncalido.txt ArquivoTeste.txt 2> /dev/null

```
aluno@lab-dacc-08:~$ ls ArquivoInvalido.txt ArquivoTeste.txt 2> /dev/null
ArquivoTeste.txt
```

Comando grep a

```
aluno@lab-dacc-08:~$ grep a
a
a
```

Comando cat /proc/cpuinfo | grep "model name"

Comando cat /proc/cpuinfo | grep "model name" | head -1

```
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name" | head -1
model name : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz
```

Comando cat /proc/cpuinfo | grep "model name" | head -1 | cut -d: -f2

```
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name" | head -1 | cut -d: -f2
Intel(R) Core(TM) i7_8700 CPU @ 3.20GHz
```

Comando cat /proc/cpuinfo | grep "model name" | head -1 | cut -d: -f2 | cut -c2-

```
a<mark>luno@lab-dacc-08:~$ c</mark>at /proc/cpuinfo | grep "model name" | head -1 | cut -d: -f2 | cut -c2-
Intel(R) Core(TM) i7-<u>8</u>700 CPU @ 3.20GHz
```

Comando cat /etc/passwd | grep h | wc -l

```
aluno@lab-dacc-08:~$ cat /etc/passwd | grep h | wc -l
15
```

Comando cat /etc/passwd | cut -d: -f1 | grep h

```
aluno@lab-dacc-08:~$ cat /etc/passwd | cut -d: -f1 | grep h
avahi-autoipd
cups-pk-helper
speech-dispatcher
avahi
hplip
whoopsie
lightdm
sshd
```

Prática Laboratório 3 (Linux)

Comando ls -flh /etc/passwd /etc/passwd /etc/shadow /etc/shadow /etc/group

```
aluno@lab-dacc-08:/$ ls -flh /etc/passwd /etc/shadow /etc/group
-rw-r--r-- 1 root root 3,1K abr 4 18:00 /etc/passwd
-rw-r---- 1 root shadow 1,8K abr 7 16:38 /etc/shadow
-rw-r--r-- 1 root root 1,3K abr 7 10:11 /etc/group
```

Comando cat /etc/fstab

```
/Documentos$ cat /etc/fstab
  /etc/fstab: static file system information.
 Use 'blkid' to print the universally unique identifier for a device; this may be used with UUID= as a more robust way to name devices
 that works even if disks are added and removed. See fstab(5).
# <file system> <mount point> <type> <options>
 / was on /dev/nvme0n1p8 during installation
UUID=bf741425-5ad0-4865-ad66-906781c30d34 /
                                                                  ext4
                                                                            errors=remount-ro 0
 /boot/efi was on /dev/nvme0n1p1 during installation
UUID=8E68-D768 /boot/efi
                                    vfat
                                             umask=0077
                                                                0
# /media/arquivos was on /dev/sda1 during installation
# swap was on /dev/nvme0n1p7 during installation
UUID=3f6a3ca4-191e-450b-be98-daca5bd7e2c7 none
                                                                   swap
dev/disk/by-uuid/aa17929a-828c-4123-b88e-75c0748befbd /media/arquivos-linux auto defaults 1 1/
dev/disk/by-uuid/B2347038347002<u>2</u>1 /media/arquivos auto nosuid,nodev,nofail,x-gvfs-show 0 0/
```

Comando cat /etc/hostname

```
aluno@lab-dacc-08:~$ cat /etc/hostname
lab-dacc-08
```

Comando cat /etc/protocols | grep UDP

```
aluno@lab-dacc-08:~$ cat /etc/protocols | grep UDP
udp 17 UDP # user datagram protocol
udplite 136 UDPLite # UDP-Lite [RFC3828]
```

Comando cat /etc/services | grep -P "ssh|http\t|https|ircd"

```
aluno@lab-dacc-08:~$ cat /etc/services | grep -P "ssh|http\t|https|ircd"

# Updated from https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xht
nl .
ssh 22/tcp # SSH Remote Login Protocol
http 80/tcp www # WorldWideWeb HTTP
https 443/tcp # http protocol over TLS/SSL
locd 6667/tcp # Internet Relay Chat
```

Comando cat /etc/shells

```
aluno@lab-dacc-08:~$ cat /etc/shells
# /etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/rbash
/bin/dash
/usr/bin/dash
```

Comando cat /etc/timezone

```
aluno@lab-dacc-08:~$ cat /etc/timezone
America/Porto_Velho
```

Comando ls -alh ~

```
aluno@lab-dacc-08:~$ ls -alh ~
total 300K
drwxr-xr-x 23 aluno aluno 4,0K set 23 14:49
drwxr-xr-x 4 root root 4,0K abr 2 20:05
-rw-r--r-- 1 aluno aluno 9,7K set 22 16:07
                                               -al
drwxrwxr-x 4 aluno aluno 4,0K abr 7 16:34 .android
drwxrwxr-x 3 aluno aluno 4,0K abr 3 23:23 Android
drwxr-xr-x 2 aluno aluno 4,0K abr 6 10:44 .anydesk
drwxr-xr-x 2 aluno aluno 4,0K abr 3 23:22 'Área de Trabalho'
-rw-rw-r-- 1 aluno aluno 130K set 22 17:43 ArquivosDoBin.txt
-rw-rw-r-- 1 aluno aluno 75 set 22 17:53 ArquivoTeste.txt
-rw----- 1 aluno aluno 5,3K set 23 16:04 .bash history
-rw-r--r-- 1 aluno aluno 220 abr 2 20:05 .bash logout
-rw-r--r-- 1 aluno aluno 3,7K abr 2 20:05 .bashrc
drwxr-xr-x 20 aluno aluno 4,0K abr 28 14:32
drwx----- 25 aluno aluno 4,0K set 22 15:47
                                                 .config
drwxr-xr-x 3 aluno aluno 4,0K abr 7 10:28 Documentos
drwxr-xr-x 2 aluno aluno 4,0K set 22 17:44 Downloads
-rw----- 1 aluno aluno 16 abr 7 10:05 .emulator console auth token
```

Comando cat /dev/random

```
aluno@lab-dacc-08:~$ cat /dev/random
```

Comando echo \$RANDOM

```
aluno@lab-dacc-08:~$ echo $RANDOM
8413
```

Comando echo "Timber Hearth" > /tmp/OuterWilds.txt

```
aluno@lab-dacc-08:~$ echo "Timber Hearth" > /tmp/OuterWilds.txt
aluno@lab-dacc-08:~$ cat /tmp/OuterWilds.txt > /dev/stdout
Timber Hearth
```

Comando cat /proc/diskstats | grep -v loop

Comando iostat | grep -v loop

```
aluno@lab-dacc-08:~$ iostat | grep -v loop
```

Comando cat /proc/cmdline

```
aluno@lab-dacc-08:~$ cat /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-5.13.0-52-generic root=UUID=bf741425-5ad0-4865-ad66-906781c30d34 ro quiet splash
vt.handoff=7
```

Comando cat /proc/loadavg

```
aluno@lab-dacc-08:~$ cat /proc/loadavg
0.58 0.56 0.42 1/1071 80466
```

Comando cat /proc/meminfo | grep Mem

```
aluno@lab-dacc-08:~$ cat /proc/meminfo | grep Mem
MemTotal: 16189672 kB
MemFree: 7602452 kB
MemAvailable: 13651100 kB
```

Comando cat /proc/uptime

```
aluno@lab-dacc-08:~$ cat /proc/uptime
8722.27 101587.22
```

Comando cat /proc/version

```
aluno@lab-dacc-08:~$ cat /proc/version
Linux version 5.13.0-52-generic (buildd@lcy02-amd64-067) (gcc (Ubuntu 9.4.0-1ubuntu1~20.04.1) 9.4.0, GNU
ld (GNU Binutils for Ubuntu) 2.34) #59~20.04.1-Ubuntu SMP Thu Jun 16 21:21:28 UTC 2022
```

Comando hexdump -c /bin/ls | head -3

```
aluno@lab-dacc-08:~$ hexdump -C /bin/ls | head -3
000000000 7f 45 4c 46 02 01 01 00 00 00 00 00 00 00 00 |.ELF.......
00000010 03 00 3e 00 01 00 00 00 d0 67 00 00 00 00 00 00 |..>....g.....|
00000020 40 00 00 00_00 00 00 00 c0 23 02 00 00 00 00 00 |@.....#.....|
```

Comando cd /bin

```
aluno@lab-dacc-08:~$ cd /bin
aluno@lab-dacc-08:/bin$ ls

'[' host ppmtopict
2to3-2.7 hostid ppmtopj
411toppm hostname ppmtopuzz
7z hostnamectl ppmtorgb3
7za hp-align ppmtosixel
7zr hp-check ppmtotga
aa-enabled hp-clean ppmtouil
aa-exec hp-colorcal ppmtowinicon
aconnect hp-config_usb_printer ppmtoxpm
acpi_listen hp-doctor ppmtoyuv
activity-log-manager hp-firmware ppmtoyuv
activity-log-manager hp-info ppmtv
add-apt-repository hp-logcapture precat
add-apt-repository hp-makeuri preconv
```

Comando bash

```
aluno@lab-dacc-08:/bin$ bash
aluno@lab-dacc-08:/bin$ cd /tmp
aluno@lab-dacc-08:/tmp$ exit
exit
aluno@lab-dacc-08:/bin$
```

Comando /bin/date

```
aluno@lab-dacc-08:/$ /bin/date
sex 23 set 2022 16:27<u>:</u>54 -04
```

Comando echo \$PATH

```
aluno@lab-dacc-08:/$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/sbin:/sbin:/usr/games:/usr/local/games:/snap/bin:/usr/l
ocal/cuda/bin
aluno@lab_dacc_08:/$
```

Comando df -h

```
aluno@lab-dacc-08:/$ df -h
Sist. Arg.
                 Tam. Usado Disp. Uso% Montado em
udev
                 7,7G
                          0
                             7,7G
                                     0% /dev
                 1,6G
tmpfs
                       3,7M
                             1,6G
                                     1% /run
                 101G
                              65G
/dev/nvme0n1p8
                        32G
                                    33% /
tmpfs
                 7,8G
                             7,8G
                                     0% /dev/shm
                          0
                 5,0M
                             5,0M
tmpfs
                       4,0K
                                     1% /run/lock
                             7,8G
tmpfs
                 7,8G
                                     0% /sys/fs/cgroup
                          0
/dev/loop0
                 128K
                       128K
                                 0 100% /snap/bare/5
/dev/loop3
                 522M
                       522M
                                 0 100% /snap/gimp/393
/dev/loop2
                  56M
                        56M
                                 0 100% /snap/core18/2566
/dev/loop1
                                 0 100% /snap/chromium/2020
                 134M
                       134M
/dev/loop4
                 401M
                       401M
                                 0 100% /snap/gnome-3-38-2004/112
                       143M
                                 0 100% /snap/chromium/2105
/dev/loop7
                 143M
/dev/loop6
                  56M
                        56M
                                 0 100% /snap/core18/2409
/dev/loop5
                 347M
                       347M
                                 0 100% /snap/gnome-3-38-2004/115
/dev/loop8
                                 0 100% /snap/gtk2-common-themes/13
                 256K
                       256K
/dev/loop9
                 115M
                       115M
                                0 100% /snap/core/13741
/dev/loop10
                  55M
                        55M
                                 0 100% /snap/snap-store/558
/dev/loop11
                                 0 100% /snap/snapd/16778
                  48M
                        48M
/dev/loop12
                  47M
                        47M
                                 0 100% /snap/snapd/16010
/dev/loop13
                  46M
                        46M
                                 0 100% /snap/snap-store/599
/dev/loop14
                 392M
                       392M
                                 0 100% /snap/gimp/383
                        64M
                  64M
/dev/loop15
                                 0 100% /snap/core20/1623
/dev/loop16
                  62M
                        62M
                                 0 100% /snap/core20/1518
/dev/loop17
                  66M
                        66M
                                 0 100% /snap/gtk-common-themes/1519
/dev/loop18
                 165M
                       165M
                                 0 100% /snap/gnome-3-28-1804/161
/dev/loop19
                                 0 100% /snap/core/13308
                 114M
                       114M
/dev/nvme0n1p1
                 496M
                        81M
                             416M
                                    17% /boot/efi
/dev/loop20
                 92M
                        92M
                                 0 100% /snap/gtk-common-themes/1535
/dev/sda1
                             352G
                                    25% /media/arquivos
                 466G
                       114G
                 1,6G
tmpfs
                        20K
                             1,6G
                                     1% /run/user/125
                        56K
                             1,6G
                                     1% /run/user/1001
tmpfs
                 1,6G
```

Comando touch /tmp/ArquivoTouch.txt

```
aluno@lab-dacc-08:/$ touch /tmp/ArquivoTouch.txt
aluno@lab-dacc-08:/$ ls -lh /tmp/ArquivoTouch.txt
-rw-rw-r-- 1 aluno aluno 0 set 23 16:29 /tmp/ArquivoTouch.txt
```

Comando uname -a

```
aluno@lab-dacc-08:/$ uname -a
Linux lab-dacc-08 5.13.0-52-generic #59~20.04.1-Ubuntu SMP Thu Jun 16 21:21:28 UTC 2022 x86_64 x86_64 x86
64 GNU/Linux
```

Comando who

```
aluno@lab-dacc-08:/home$ who
aluno :1 202<u>2</u>-09-23 14:01 (:1)
```

Prática Laboratório 4 (Linux)

Comando whereis who

```
aluno@lab-dacc-08:~$ whereis who
who: /usr/bin/who /usr/share/man/man1/who.1.gz
```

Comando whereis ls

```
ls: /usr/bin/ls /usr/share/man/man1/ls.1.gz
```

Comando whereis hexdump

```
aluno@lab-dacc-08:~$ whereis hexdump
hexdump: /usr/bin/hex<u>d</u>ump /usr/share/man/man1/hexdump.1.gz
```

Comando whereis grep

```
aluno@lab-dacc-08:~$ whereis grep
grep: /usr/bin/grep /usr/share/man/man1/grep.1.gz /usr/share/info/grep.info.gz
```

Comando whereis ifconfig

```
aluno@lab-dacc-08:~$ whereis ifconfig
ifconfig:
aluno@lab-dacc-08:~$ ifconfig

Comando 'ifconfig' nāo encontrado, mas poder ser instalado com:

apt install net-tools

Por favor, pergunte seu administrador.

aluno@lab-dacc-08:~$ apt install net-tools

E: Nāo foi possível abrir arquivo de trava /var/lib/dpkg/lock-frontend - open (13: Permissão negada)

E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontend), are you root?
```

Comando whereis whereis

```
aluno@lab-dacc-08:~$ whereis whereis
whereis: /usr/bin/whe<u>r</u>eis /usr/share/man/man1/whereis.1.gz
```

Comando find /etc

```
aluno@lab-dacc-08:~$ find /etc
/etc
/etc
/etc/samba
/etc/samba/tls
/etc/samba/smb.conf
/etc/samba/gdbcommands
/etc/chromium
/etc/chromium/native-messaging-hosts
/etc/chromium/native-messaging-hosts/org.gnome.chrome_gnome_shell.json
/etc/console-setup
```

Comando find /etc | wc -l

```
aluno@lab-dacc-08:~$ find /etc | wc -l
find: '/etc/polkit-1/localauthority': Permissāo negada
find: '/etc/cups/ssl': Permissāo negada
find: '/etc/ppp/peers': Permissāo negada
find: '/etc/ssl/private': Permissāo negada
find: '/etc/chatscripts': Permissāo negada
3222
```

Comando find /etc 2> /dev/null | wc -l

```
aluno@lab-dacc-08:~$ find /etc 2> /dev/null | wc -l
3222
```

Comando find /usr/include | grep org

```
aluno@lab-dacc-08:~$ find /usr/include | grep org

/usr/include/xorg

/usr/include/xorg/wacom-properties.h

/usr/include/xorg/isdv4.h

/usr/include/xorg/wacom-util.h

/usr/include/xorg/Xwacom.h
```

Comando du -s

```
aluno@lab-dacc-08:~$ cd /usr
aluno@lab-dacc-08:/usr$ du -s
17190096 .
```

Comando du -sh

```
aluno@lab-dacc-08:/usr$ du -sh
17G . _
```

Comando du -sh *

```
aluno@lab-dacc-08:/<mark>usr</mark>$ du -sh *
274M
         bin
776K
         games
30M
         include
         lib
7,5G
45M
        lib32
4,0K
        lib64
14M
        libexec
42M
        libx32
5,8G
        local
36M
        sbin
2,0G
         share
788M
        SCC
```

Comando echo "mensagem no arquivo Original" > Arquivo Original.txt

```
aluno@lab-dacc-08:~$ cd #
aluno@lab-dacc-08:~$ echo "Mensagem no arquivo original" > ArquivoOrginal.txt
aluno@lab-dacc-08:~$ ls -lh ArquivoOriginal.txt
-rw-rw-r-- 1 aluno aluno 0 set 23 17:21 ArquivoOriginal.txt
aluno@lab-dacc-08:~$
```

Comando ls -lh ArquivoLinkSimbolico.txt

```
aluno@lab-dacc-08:~$ ls -lh ArquivoLinkSimbolico.txt
lrwxrwxrwx 1 aluno aluno 19 set 23 17:20 ArquivoLinkSimbolico.txt -> ArquivoOriginal.txt
```

Comando cat ArquivoLinkSimbolico.txt

```
aluno@lab-dacc-08:~$ cat ArquivoLinkSimbolico.txt
Mensagem no arquivo original
```

Comando echo "mensagem concatenada no link simbolico" >> ArquivoLinkSimbolico.txt

```
aluno@lab-dacc-08:~$ echo "Mensagem concatenada no link simbolico" >> ArquivoLin
kSimbolico.txt
aluno@lab-dacc-08:~$ cat ArquivoOriginal.txt
Mensagem no arquivo original
Mensagem concatenada no link simbolico
```

Comando rm Arquivo Original.txt

```
aluno@lab-dacc-08:~$ rm ArquivoOriginal.txt
rm: nāo foi possível remover 'ArquivoOriginal.txt': Arquivo ou diretório inexist
ente
aluno@lab-dacc-08:~$ cat ArquvivoLinkSimbolico.txt
cat: ArquvivoLinkSimbolico.txt: Arquivo ou diretório inexistente
aluno@lab-dacc-08:~$
```

Comando ls -lh ArquivoLinkSimbolico.txt

```
aluno@lab-dacc-08:~$ ls -lh ArquivoLinkSimbolico.txt
lrwxrwxrwx 1 aluno aluno 19 set 23 17:20 ArquivoLinkSimbolico.txt -> ArquivoOrig
```

Comando echo "Mensagem no arquivo original 2" > Arquivo Original

```
aluno@lab-dacc-08:~$ echo "Mensagem no arquivo original 2" > Arquiv oOriginal2.txt
aluno@lab-dacc-08:~$ ls -lh ArquivoOriginal2.txt
-rw-rw-r-- 1 aluno aluno 31 set 28 14:14 ArquivoOriginal2.txt
```

Comando In ArquivoOginal2.txt ArquivoLinkFisico.txt

```
aluno@lab-dacc-08:~$ ln ArquivoOriginal2.txt ArquivoLinkFisico.txt
aluno@lab-dacc-08:~$ ls -lh ArquivoOriginal2.txt ArquivoLinkFisico
.txt
-rw-rw-r-- 2 aluno aluno 31 set 28 14:14 ArquivoLinkFisico.txt
-rw-rw-r-- 2 aluno aluno 31 set 28 14:14 ArquivoOriginal2.txt
```

Comando rm Arquivo Original 2.txt

```
aluno@lab-dacc-08:~$ rm ArquivoOriginal2.txt
aluno@lab-dacc-08:~$ ls -lh ArquivoLinkFisico.txt
-rw-rw-r-- 1 aluno aluno 31 set 28 14:14 ArquivoLinkFisico.txt
aluno@lab-dacc-08:~$ cat ArquivoLinkFisico.txt
```

Comando Is -alh | grep "\." | head -2

```
aluno@lab-dacc-08:~$ ls -alh | grep "\." | head -2
drwxr-xr-x 24 aluno aluno 4,0K set 28 14:17 .
drwxr-xr-x 4 root root 4.0K abr 2 20:05 ..
```

Comando mkdir NovoSubdiretorio

```
aluno@lab-dacc-08:~$ mkdir NovoSubdiretorio
aluno@lab-dacc-08:~$ ls -alh | grep "\." | head -2
drwxr-xr-x 25 aluno aluno 4,0K set 28 14:20 .
drwxr-xr-x 4 root root 4,0K abr 2 20:05 ..
```

Comando ls -lh | grep Novosubdiretorio

```
aluno@lab-dacc-08:~$ ls -lh | grep NovoSubdiretorio
drwxrwxr-x 2 aluno aluno 4,0K set 28 14:20 NovoSubdiretorio
```

Comando ls -alh NovoSubdiretorio/

```
aluno@lab-dacc-08:~$ ls -alh NovoSubdiretorio/
total 8,0K
drwxrwxr-x 2 aluno aluno 4,0K set 28 14:20
drwxr-xr-x 25 aluno a<u>l</u>uno 4,0K set 28 14:20
```

Prática Laboratório 5 (Linux)

Comando

```
aluno@lab-dacc-08:~$ ps
[ PID TTY TIME CMD
14491 pts/0 00:00:00 bash
15883 pts/0 00:00<u>:</u>00 ps
```

Comando

Comando

```
aluno@lab-dacc-08:~$ ps -f
UID
                    PPID C STIME TTY
                                               TIME CMD
             PID
aluno
           14491
                          0 14:02 pts/0
                                           00:00:00 bash
                   14414
aluno
           16342
                   14491
                          0 15:35 pts/0
                                           00:00:00 cat
aluno
           16386
                   14491 0 15:36 pts/0
                                           00:00:00 ps -f
```

Comando

```
aluno@lab-dacc-08:~$ ps -ef
UID
             PID
                   PPID C STIME TTY
                                               TIME CMD
                                           00:00:02 /sbin/init splash
              1
root
                       0 0 13:38 ?
                                           00:00:00 [kthreadd]
root
               2
                       0
                        0 13:38 ?
                                           00:00:00 [rcu gp]
root
               3
                       2 0 13:38 ?
               4
                       2
                                           00:00:00 [rcu_par_gp]
root
                         0 13:38 ?
```

```
aluno@lab-dacc-08:~$ ps -ef | wc -l
381
```

Comando top

```
top - 15:39:36 up 2:01, 1 user, load average: 0,18, 0,34, 0,23
Tarefas: 374 total, 2 em exec., 371 dormindo, 1 parado, 0 zumbi
%CPU(s): 0,4 us, 0,1 sis, 0,0 ni, 99,5 oc, 0,0 ag, 0,0 ih, 0,0 is 0,0 tr
MB mem : 15808,5 total, 9322,1 livre, 2471,1 usados, 4015,3 buff/cache
MB swap: 3906,0 total, 3906,0 livre, 0,0 usados, 12936,9 mem dispon.
         PID USUARIO PR NI VIRT RES SHR S %CPU %MEM 1981 aluno 20 0 4474864 359240 119900 R 7,6 2,2
                                                                                                                                                                                                 TEMPO+ COMANDO
                                                                                                                                                                                                   4:19.88 gnome-shell

    1981 aluno
    20
    0 4474864
    359240
    119900
    R

    1846 root
    20
    0 6745052
    137988
    78592
    S

    1387 root
    -51
    0
    0
    0
    0
    0

    980 message+
    20
    0 10076
    6484
    3840
    S

    982 root
    20
    0 552496
    22428
    19248
    S

    1389 root
    20
    0 3988080
    178108
    98876
    S

    2125 aluno
    20
    0 469736
    12952
    11552
    S

    6535 aluno
    20
    0 12308
    4212
    3344
    R

                                                                                                                                                           4,7
                                                                                                                                                                             0,9
0,0
0,0
                                                                                                                                                                                                  3:40.03 Xorg
                                                                                                                                                                                                 1:26.31 irq/144-nvidia
0:02.22 dbus-daemon
                                                                                                                                                            0,3
                                                                                                                                                                                                  0:06.95 NetworkManager
                                                                                                                                                          0,3
                                                                                                                                                                              0,1
                                                                                                                                                        0,3
                                                                                                                                                                                                  0:14.33 nv_queue
         1389 root
                                                                                                                                                                              0,0
                                                                                                                                                                                                 0:05.46 gnome-shell
0:01.20 gsd-sharing
0:00.19 top
         1479 gdm
                                                                                                                                                            0,3
                                                                                                                                                                               1,1
                                                                                                                                                            0,3
                                                                                                                                                                               0,1
0,0
        16535 aluno
```

Comando top -o %MEM

```
top - 15:40:48 up 2:02, 1 user, load average: 0,28, 0,34, 0,24
Tarefas: 370 total, 1 em exec., 368 dormindo, 1 parado, 0 zumbi
%CPU(s): 0,7 us, 0,3 sis, 0,0 ni, 99,0 oc, 0,0 ag, 0,0 ih, 0,0 is 0,0 tr
MB mem : 15808,5 total, 9295,9 livre, 2497,7 usados, 4014,8 buff/cache
MB swap: 3906,0 total, 3906,0 livre, 0,0 usados, 12911,1 mem dispon.
       PID USUARIO PR NI
                                                  VTRT
                                                                              SHR S %CPU %MEM
                                                                RES
                                                                                                                     TEMPO+ COMANDO
                                        0 4242912 859360 278804 S
                                                                                                                 12:11.53 firefox
    14013 aluno
                                20
                                                                                            1,3
                                                                                                       5,3
                                      0 2915168 385332 131644 5 0,3 2,4 0 4474864 359212 119900 5 8,6 2,2 0 2577652 208784 121148 5 0,0 1,3
                                                                                                                 0:46.37 Isolated Web Co
   15630 aluno
                                20
                                                                                                                  4:24.03 gnome-shell
0:12.63 Isolated Web Co
     1981 aluno
                                20
    15559 aluno
                                20
     1479 gdm
                                         0 3988080 178108 98876 S
                                                                                                                  0:05.49 gnome-shell
```

Comando

```
aluno@lab-dacc-08:~$ ps | grep cat | xargs | cut -d " " -f1
16342
```

Comando

```
aluno@lab-dacc-08:~$ kill 16342
aluno@lab-dacc-08:~$ ps | grep cat
16342 pts/0 00:00:00 cat
```

```
aluno@lab-dacc-08:~$ kill -9 16342
aluno@lab-dacc-08:~$ ps | grep cat
[1]+ Morto ______cat
```

```
aluno@lab-dacc-08:~$ cat &
[1] 16798
aluno@lab-dacc-08:~$ cat &
[2] 16799
[1]+ Parado
                               cat
aluno@lab-dacc-08:~$ cat &
[3] 16803
[2]+ Parado
                               cat
aluno@lab-dacc-08:~$ ps | grep cat
 16798 pts/0
                 00:00:00
 16799 pts/0
                 00:00:00
 16803 pts/0
                 00:00:00
[3]+ Parado
                               cat
```

Comando

```
aluno@lab-dacc-08:~$ killall -9 cat
[1] Morto cat
[2]- Morto cat
[3]+ Morto ___ cat
```

Comando

```
aluno@lab-dacc-08:~$ free
                                                           buff/cache
                                                                       disponível
              total
                          usada
                                       livre
                                                 compart.
           16187912
                         2559112
                                     9517428
                                                    85712
                                                              4111372
                                                                         13216260
Mem.:
Swap:
            3999740
                                     3999740
```

Comando

```
luno@lab-dacc-08:~$ free
                                                 compart. buff/cache disponível
              total
                                       livre
                           usada
                                                                 3,9Gi
Mem.:
               15Gi
                           2,4Gi
                                       9,1Gi
                                                     87Mi
                                                                               12Gi
              3,8Gi
                              0B
                                       3,8Gi
Swap:
```

```
00:00:00 /usr/sbin/cup

00:00:00 /usr/sbin/rsy

00:00:00 /lib/systemd/

00:00:00 /usr/sbin/the

00:00:03 /usr/lib/xorg
root
             979
                        1 0 13:40 ?
                                                                            -n -iNONE
                        1 0 13:40
syslog
             1005
                        1 0 13:40 ?
root
             1019
root
                        1 0 13:40 ?
                                                                            --systemd --dbus-enable --adaptive
             1020
root
                     1286 0 13:40 tty1
                                                                      /Xorg vt1 -displayfd 3 -auth /run/user/1
             1288
                   -background none -noreset -keeptty -verbose 3
1844 3 13:40 tty2 00:04:04 /usr/lib/xo
25/gdm/Xauthority
                                                                     /Xorg vt2 -displayfd 3 -auth /run/user/1
             1846
001/gdm/Xauthority -background none -noreset -keeptty -verbose
```

aluno@lab-dacc-08:~\$ cat /proc/cmdline BOOT_IMAGE=/boot/vmlinuz-5.15.0-48-generic root=UUID=bf741425-5ad0-4865-ad66-906781c30d34 ro quiet splash vt.handoff=7

Comando

aluno@lab-dacc-08:~\$ ls -fd /sbin/init /etc/init /bin/init ls: nāo foi possível acessar '/bin/init': Arquivo ou diretório inexistente /sbin/init /etc/init

Comando

```
aluno@lab-dacc-08:~$ ls -lh /sbin/init
lrwxrwxrwx 1 root roo<u>t</u> 20 abr  2 19:41 <mark>/sbin/init</mark> -> /lib/systemd/systemd
```

Comando

```
aluno@lab-dacc-08:~$ ls /lib/systemd/system/*.service
/lib/systemd/system/accounts-daemon.service
/lib/systemd/system/acpid.service
/lib/systemd/system/alsa-restore.service
/lib/systemd/system/alsa-state.service
/lib/systemd/system/alsa-utils.service
/lib/systemd/system/anacron.service
/lib/systemd/system/apparmor.service
/lib/systemd/system/apparmor.service
```

```
aluno@lab-dacc-08:~$ cat /lib/systemd/system/cron.service
[Unit]
Description=Regular background program processing daemon
Documentation=man:cron(8)
After=remote-fs.target nss-user-lookup.target

[Service]
EnvironmentFile=-/etc/default/cron
ExecStart=/usr/sbin/cron -f $EXTRA_OPTS
IgnoreSIGPIPE=false
KillMode=process
Restart=on-failure

[Install]
WantedBy=multi-user.target
```

Prática Laboratório 6 (Linux)

Comando

```
aluno@lab-dacc-08:~$ tail -5 /etc/passwd
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
aluno::1001:1001:Aluno,,,:/home/aluno:/bin/bash
lightdm:x:128:135:Light Display Manager:/var/lib/lightdm:/bin/false
nvidia-persistenced:x:127:134:NVIDIA Persistence Daemon,,,:/nonexistent:/usr/sbin/nologin
sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
```

Comando

```
aluno@lab-dacc-08:~$ head -1 /etc/passwd
root:x:0:0:root:/root:/bin/bash
```

Comando

```
aluno@lab-dacc-08:~$ cat /etc/passwd | grep "main\|www-data\|syslog\|sshd"
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
```

Comando

```
aluno@lab-dacc-08:~$ cat /etc/passwd | wc -l
51
```

Comando

```
aluno@lab-dacc-08:~$ cat /etc/passwd | cut -f1 -d: | sort | tr "\n" " "; echo
administrador aluno _apt avahi avahi-autoipd backup bin colord cups-pk-helper daemon dnsmasq games gdm ge
oclue gnats gnome-initial-setup hplip irc kernoops lightdm list lp mail man messagebus news nm-openvpn no
body nvidia-persistenced proxy pulse root rtkit saned speech-dispatcher sshd sssd sync sys syslog systemd
-coredump systemd-network systemd-resolve systemd-timesync tcpdump tss usbmux uucp uuidd whoopsie www-dat
a
```

Comando

```
administrador@lab-dacc-08:~$ cat /etc/passwd | grep "andrefelipe"
andrefelipe:x:1002:1003:,1,,:/home/andrefelipe:/bin/bash
```

```
administrador@lab-dacc-08:~$ cat /etc/shadow cat: /etc/shadow: Permissão negada
```

administrador@lab-dacc-08:~\$ sudo cat /etc/shadow
root:\$6\$fyU9Rw3N.LqItk0n\$rjlAFkz9RkC7fA.S9E3oQAujB/W9Xgv9fOyPTV0rADqNc.oRjh7dtGjR20MikCpyrvS6t0/UGj14P60y
g2GOl0:19087:0:99999:7:::
daemon:*:19046:0:99999:7:::
bin:*:19046:0:99999:7:::

Comando

```
administrador@lab-dacc-08:~$ sudo cat /etc/shadow | grep "andrefelipe"
andrefelipe:$6$fxVmoGPzLp2Tbs1G$8I6VZ6KR.K2SruORzDLYqVct9oBirWXJz4iUVHxngqwG7BRbghaOexLxmm3mPg5CVmuGwsUW5
Krh8sQxpuhgJ.:19263:0:99999:7<u>:</u>::
```

Comando

```
administrador@lab-dacc-08:~$ echo -n ncc1701"" | mkpasswd --stdin --method=sha-512 --salt="fxVmoGPzLp2Tbs
1G"
$6$fxVmoGPzLp2Tbs1G$w096/LlpaVoRjx0PEe7WnMiKZh86m12/q5P1kXzmSylKVcqvLnRu2Ax1dKC8dRZ0eVHu072loADOt0B07TK5Z
```

Comando

```
administrador@lab-dacc-08:~$ cat /etc/group
root:x:0:
daemon:x:1:
```

Comando

```
administrador@lab-dacc-08:~$ head -3 /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
```

Comando

```
administrador@lab-dacc-08:~$ cat /etc/group | grep '^andrefelipe'
andrefelipe:x:1003:
```

Comando

```
administrador@lab-dacc-08:~$ cat /etc/group | grep '^adm:'
adm:x:4:syslog,administrador _
```

Comando

```
administrador@lab-dacc-08:~$ sudo addgroup andrefelipe00
Adicionando grupo `andrefelipe00' (GID 1004) ...
Concluído.
```

Comando

administrador@lab-dacc-08:~\$ <u>s</u>udo usermod -a -G andrefelipe00 andrefelipe

```
administrador@lab-dacc-08:~$ cat /etc/group | grep 'andrefelipe00' andrefelipe00:x:1004:andrefelipe
```

Comando

```
administrador@lab-dacc-08:~$ groups andrefelipe
andrefelipe : andrefelipe andrefelipe00
```

Comando

```
administrador@lab-dacc-08:~$ id
uid=1000(administrador) gid=1000(administrador) gru
pos=1000(administrador),4(adm),24(cdrom),27(sudo),3
0(dip),46(plugdev),120(lpadmin),132(lxd),133(sambas
hare),1002(mount-ntfs)
```

Comando

```
administrador@lab-dacc-08:~$ echo '#!/bin/bash' > HelloBash.h
administrador@lab-dacc-08:~$ echo '#!/bin/bash' > HelloBash.sh
administrador@lab-dacc-08:~$ echo 'echo "Hello Bash..."' >> HelloBash.sh
administrador@lab-dacc-08:~$ cat HelloBash.sh
#!/bin/bash
echo "Hello Bash..."
```

Comando

```
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rw-rw-r-- 1 administrador administrador 33 set 28 17:42 HelloBash.sh
```

Comando

```
administrador@lab-dacc-08:~$ ./HelloBash.sh
bash: ./HelloBash.sh: Permissāo negada
```

Comando

```
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rwxrw-r-- 1 administrador administrador 33 set 28 17:42 HelloBash.sh
```

```
administrador@lab-dacc-08:~$ ./HelloBash.sh
Hello Bash...
```

```
administrador@lab-dacc-08:~$ chmod 700 HelloBash.sh
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rwx----- 1 administrador administrador 33 set 28 17:42 HelloBash.sh
```

Comando

```
administrador@lab-dacc-08:~$ chmod 755 HelloBash.sh
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rwxr-xr-x 1 administrador administrador 33 set 28 17:42 HelloBash.sh
```

Comando

```
administrador@lab-dacc-08:~$ sudo chgrp andrefelipe HelloBash.sh
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rwxr-xr-x 1 administrador andrefelipe 33 set 28 17:42 HelloBash.sh
```

Comando sudo cat /etc/sudoers

```
administrador@lab-dacc-18:~$ sudo cat /etc/sudoers
# This file MUST be edited with the 'visudo' command as root.
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
# See the man page for details on how to write a sudoers file.
Defaults
                env_reset
                mail badpass
Defaults
                secure path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/
Defaults
sbin:/bin:/snap/bin"
# Host alias specification
# User alias specification
# Cmnd alias specification
# User privilege specification
```

Prática Laboratório 7 (Linux)

```
aluno@lab-dacc-08:~$ ls -lh /bin/sh
lrwxrwxrwx 1 root roo<u>t</u> 4 abr 2 19:41 <mark>/bin/sh</mark> -> dash
```

```
aluno@lab-dacc-08:~$ cat /etc/passwd | cut -f 7 -d: | sort | uniq -c
4 /bin/bash
7 /bin/false
1 /bin/sync
40 /usr/sbin/nologin
```

Comando

```
aluno@lab-dacc-08:~$ /bin/false
aluno@lab-dacc-08:~$ echo $?
1
aluno@lab-dacc-08:~$ /bin/true
aluno@lab-dacc-08:~$ echo $?
0
```

Comando

```
aluno@lab-dacc-08:~$ /usr/sbin/nologin
This account is currently not available.
aluno@lab-dacc-08:~$ echo $?
1
```

Comando

```
aluno@lab-dacc-08:~$ cat /var/log/auth.log | grep nologin | tail -1 cat: /var/log/auth.log: Permissão negada
```

Comando

```
aluno@lab-dacc-08:~$ add
add-apt-repository addgroup addr2line adduser
addgnupghome addpart add-shell
```

```
aluno@lab-dacc-08:~$ cat /etc/adduser.conf
                               .config/
-al
                                                               Modelos/
.android/
                                                               .mozilla/
                               Documentos/
Android/
                               Downloads/
                                                               Música/
.anydesk/
Área de Trabalho/
                                                               NovoSubdiretorio/
                               .emulator_console_auth_token
                                                               .octave_hist
                               .gnupg/
ArquivoLinkFisico.txt
                               .gradle/
                                                               .pki/
ArquivoLinkSimbolico.txt
                                                               .profile
                               Imagens/
                               .java/
ArquivoOrginal.txt
                                                               Público/
                               .local/
                                                               .repo_.gitconfig.json
ArquivosDoBin.txt
ArquivoTeste.txt
                               LsStderr
                                                               snap/
                                                               .ssh/
.bash_history
                               LsStderr.txt
                               LsStdoutStdErr.txt
                                                               tabela.txt
.bash_logout
.bashrc
                               LsStdout.txt
                                                               Vídeos/
                                                               .vscode/
.cache/
                               manualLS.txt
```

```
aluno@lab-dacc-08:~$ head -1 /etc/init.d/cron
#!/bin/sh
```

Comando

```
aluno@lab-dacc-08:~$ nano HelloWord.sh
```

Comando

```
aluno@lab-dacc-08:~$ chmod 700 HelloWord.sh
aluno@lab-dacc-08:~$ ./HelloWord.sh
Hello world
```

Comando

```
aluno@lab-dacc-08:~$ nano HelloWord.sh
aluno@lab-dacc-08:~$ ./HelloWord.sh
Hello,Barney Calhoun!_
```

Comando

```
aluno@lab-dacc-08:~$ nano HelloWord.sh
aluno@lab-dacc-08:~$ ./HelloWord.sh
Digite um numero:5
./HelloWord.sh: linha 3: [5: comando não encontrado
./HelloWord.sh: linha 5: [: faltando `]'
D numero 5 é menor que zero
```

Comando

```
aluno@lab-dacc-08:~$ echo "5" | ./HelloWord.sh
Digite um numero:O numero 5 é maior que zero!
aluno@lab-dacc-08:~$ echo "0" | ./HelloWord.sh
Digite um numero:O numero 0 é zero!
aluno@lab-dacc-08:~$ echo "-8" | ./HelloWord.sh
Digite um numero:O numero -8 é menor que zero
```

```
aluno@lab-dacc-08:~$ while [ 1 ]; do echo "Loop infinito"; sleep 1; done
Loop infinito
Loop infinito
Loop infinito
Loop infinito
Loop infinito
^C
```

```
aluno@lab-dacc-08:~$ grep -r "\!/bin/sh" /etc 2> /dev/null
/etc/console-setup/cached_setup_terminal.sh:#<mark>!/bin/sh</mark>
/etc/console-setup/cached_setup_keyboard.sh:#<mark>!/bin/sh</mark>
/etc/console-setup/cached_setup_font.sh:#<mark>!/bin/sh</mark>
```

Comando

```
" ~/.bashrc: executed by bash(1) for non-login shells.
# see /usr/share/doc/bash/examples/startup-files (in the package bash-doc)
# for examples

# If not running interactively, don't do anything
case $- in
    *i*);
    *) return;;
esac

# don't put duplicate lines or lines starting with space in the history.
# See bash(1) for more options
```

Comando

```
aluno@lab-dacc-08:~$ nano ~/.bashrc
aluno@lab-dacc-08:~$ source ~/.bashrc
Bash iniciado!
```

```
step one of this self-same document, being careful to note that the rotation should occur in a clockwise direction, this point also being non-negotiable. The above described steps may be performed, at the option of the party of the first part, by any or all agents authorized by him, the objective being to produce the most possible revenue for the Partnership.

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|----w |
```