

```
aluno@lab-dacc-08: ~  
aluno@lab-dacc-08:~$ ls  
Android      Documentos   Modelos     snap  
AndroidStudioProjects Downloads    Música       Vídeos  
'Área de Trabalho'  Imagens     Público  
aluno@lab-dacc-08:~$ pwd  
/home/aluno  
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"  
aluno@lab-dacc-08:~$ ls -l /bin/ls  
-rwxr-xr-x 1 root root 142144 set  5  2019 /bin/ls  
aluno@lab-dacc-08:~$ ls /etc/host*  
/etc/host.conf /etc/hostname /etc/hosts.allow  
/etc/hostid    /etc/hosts    /etc/hosts.deny  
aluno@lab-dacc-08:~$ ls -l /etc/host  
ls: não foi possível acessar '/etc/host': Arquivo ou diretório inexistente  
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
```

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aluno@lab-dacc-08: ~  
-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  
aluno@lab-dacc-08:~$ ls -lh /bin/ls  
-rwxr-xr-x 1 root root 139K set  5  2019 /bin/ls  
aluno@lab-dacc-08:~$ ls -al  
total 144  
drwxr-xr-x 25 aluno aluno  4096 set 22 16:08 .  
drwxr-xr-x  4 root  root   4096 abr  2 20:05 ..  
drwxrwxr-x  6 aluno aluno  4096 set  2 14:54 .android  
drwxrwxr-x  3 aluno aluno  4096 abr  3 23:23 Android  
drwxrwxr-x 10 aluno aluno  4096 set  9 10:54 AndroidStudioProjects  
drwxr-xr-x  2 aluno aluno  4096 abr  6 10:44 .anydesk  
drwxr-xr-x  2 aluno aluno  4096 abr  3 23:22 'Área de Trabalho'  
-rw----- 1 aluno aluno 12288 set 22 16:07 .ArquivoTeste.txt.swp  
-rw----- 1 aluno aluno  4413 set 22 16:08 .bash_history  
-rw-r--r-- 1 aluno aluno   220 abr  2 20:05 .bash_logout  
-rw-r--r-- 1 aluno aluno  3771 abr  2 20:05 .bashrc  
drwxr-xr-x 20 aluno aluno  4096 set  9 12:21 .cache  
drwx----- 26 aluno aluno  4096 set  9 09:01 .config  
drwxr-xr-x  4 aluno aluno  4096 set  2 14:18 Documentos  
drwxr-xr-x  2 aluno aluno  4096 set 22 14:37 Downloads  
-rw----- 1 aluno aluno    16 abr  7 10:05 .emulator_console_auth_token
```

```
aluno@lab-dacc-08: ~  
-rw-r--r-- 1 aluno aluno 3771 abr 2 20:05 .bashrc  
drwxr-xr-x 20 aluno aluno 4096 set 9 12:21 .cache  
drwx----- 26 aluno aluno 4096 set 9 09:01 .config  
drwxr-xr-x 4 aluno aluno 4096 set 2 14:18 Documentos  
drwxr-xr-x 2 aluno aluno 4096 set 22 14:37 Downloads  
-rw----- 1 aluno aluno 16 abr 7 10:05 .emulator_console_auth_token  
drwx----- 3 aluno aluno 4096 set 22 16:09 .gnupg  
drwxrwxr-x 8 aluno aluno 4096 set 2 14:43 .gradle  
drwxr-xr-x 3 aluno aluno 4096 abr 7 16:27 Imagens  
drwxrwxr-x 4 aluno aluno 4096 abr 3 23:22 .java  
drwxr-xr-x 3 aluno aluno 4096 abr 2 20:18 .local  
drwxr-xr-x 2 aluno aluno 4096 abr 3 22:49 Modelos  
drwx----- 4 aluno aluno 4096 abr 6 11:35 .mozilla  
drwxr-xr-x 2 aluno aluno 4096 abr 2 20:18 Música  
-rw----- 1 aluno aluno 65 abr 7 10:35 .octave_hist  
drwx----- 3 aluno aluno 4096 abr 3 23:23 .pki  
-rw-r--r-- 1 aluno aluno 807 abr 2 20:05 .profile  
drwxr-xr-x 2 aluno aluno 4096 abr 2 20:18 Público  
-rw-rw-r-- 1 aluno aluno 2 abr 6 15:20 .repo_.gitconfig.json  
drwx----- 4 aluno aluno 4096 abr 7 16:29 snap  
drwx----- 2 aluno aluno 4096 abr 7 10:39 .ssh  
drwxr-xr-x 3 aluno aluno 4096 abr 7 10:28 Videos  
drwxrwxr-x 3 aluno aluno 4096 abr 3 23:23 .vscode  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
LS(1) User Commands LS(1)  
  
NAME  
ls - list directory contents  
  
SYNOPSIS  
ls [OPTION]... [FILE]...  
  
DESCRIPTION  
List information about the FILES (the current directory by default).  
Sort entries alphabetically if none of -cftuvSUX nor --sort is speci-  
fied.  
  
Mandatory arguments to long options are mandatory for short options  
too.  
  
-a, --all  
do not ignore entries starting with .  
  
-A, --almost-all  
do not list implied . and ..  
  
--author  
Manual page ls(1) line 1 (press h for help or q to quit)
```

```
aluno@lab-dacc-08: ~  
aluno@lab-dacc-08:~$ man ls  
aluno@lab-dacc-08:~$ cd /var/log  
aluno@lab-dacc-08:/var/log$ pwd  
/var/log  
aluno@lab-dacc-08:/var/log$ cd ~  
aluno@lab-dacc-08:~$ pw  
pw: comando não encontrado  
aluno@lab-dacc-08:~$ pwd  
/home/aluno  
aluno@lab-dacc-08:~$ cd /var/log  
aluno@lab-dacc-08:/var/log$ cd  
aluno@lab-dacc-08:~$ pwd  
/home/aluno  
aluno@lab-dacc-08:~$ cd .  
aluno@lab-dacc-08:~$ pwd  
/home/aluno  
aluno@lab-dacc-08:~$ cd ..  
aluno@lab-dacc-08:/home$ pwd  
/home  
aluno@lab-dacc-08:/home$ cd -  
/home/aluno  
aluno@lab-dacc-08:~$ pwd  
/home/aluno  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
#  
# /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.  
#  
# Comment lines (lines beginning with "#") and blank lines are ignored.  
#  
# Modified for Linux. --marekm  
  
# REQUIRED for useradd/userdel/usermod  
# Directory where mailboxes reside, _or_ name of file, relative to the  
# home directory. If you _do_ define MAIL_DIR and MAIL_FILE,  
# MAIL_DIR takes precedence.  
#  
# Essentially:  
# - MAIL_DIR defines the location of users mail spool files  
# (for mbox use) by appending the username to MAIL_DIR as defined  
# below.  
# - MAIL_FILE defines the location of the users mail spool files as the  
# fully-qualified filename obtained by prepending the user home  
--Mais--(9%)
```

```
aluno@lab-dacc-08: ~  
#  
# Essentially:  
#   - MAIL_DIR defines the location of users mail spool files  
#     (for mbox use) by appending the username to MAIL_DIR as defined  
#     below.  
#   - MAIL_FILE defines the location of the users mail spool files as the  
#     fully-qualified filename obtained by prepending the user home  
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  
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/sbi  
n/nologin  
sshd:x:129:65534:/:run/sshd:/usr/sbin/nologin  
aluno@lab-dacc-08:~$ tail -f /var/log/syslog  
tail: não foi possível abrir '/var/log/syslog' para leitura: Permissão negada  
tail: nenhum arquivo restante  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
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  
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/sbi  
n/nologin  
sshd:x:129:65534:/:run/sshd:/usr/sbin/nologin  
aluno@lab-dacc-08:~$ tail -f /var/log/syslog  
tail: não foi possível abrir '/var/log/syslog' para leitura: Permissão negada  
tail: nenhum arquivo restante  
aluno@lab-dacc-08:~$ vi ArquivoTeste.txt  
aluno@lab-dacc-08:~$ vi ArquivoTeste.txt  
aluno@lab-dacc-08:~$ cat ArquivoTeste.txt  
  
Este e um arquivo teste  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
GNU nano 4.8      ArquivoTeste.txt      Modificado  
  
Este e um arquivo teste  
  
[ 5 linhas lidas ]  
^G Obter Ajuda ^O Gravar      ^W Onde está? ^K Recort txt ^J Justificar ^C Pos atual  
^X Sair        ^R Ler o arq  ^\ Substituir ^U Colar txt ^T VerifOrtog ^_ Ir p/ linha
```

```
aluno@lab-dacc-08: ~  
-rw-rw-r-- 1 aluno aluno 28 set 22 16:28 ArquivoTeste.txt  
aluno@lab-dacc-08:~$ cp ArquivoTeste.txt /tmp  
aluno@lab-dacc-08:~$ ls -lh ArquivoTeste.txt /tmp/ArquivoTeste.txt  
-rw-rw-r-- 1 aluno aluno 28 set 22 16:28 ArquivoTeste.txt  
-rw-rw-r-- 1 aluno aluno 28 set 22 16:30 /tmp/ArquivoTeste.txt  
aluno@lab-dacc-08:~$ mv ArquivoCopia.txt /tmp  
aluno@lab-dacc-08:~$ ls -lh /tmp/ArquivoCopia.txt  
ls: não foi possível acessar '/tmp/ArquivoCopia.txt': Arquivo ou diretório inexistente  
aluno@lab-dacc-08:~$ ls -lh /tmp/ArquivoCopia.txt  
-rw-rw-r-- 1 aluno aluno 28 set 22 16:29 /tmp/ArquivoCopia.txt  
aluno@lab-dacc-08:~$ mv ArquivoTeste.txt ArquivoNomeado.txt  
aluno@lab-dacc-08:~$ ls -lh ArquivoNomeado.txt  
-rw-rw-r-- 1 aluno aluno 28 set 22 16:28 ArquivoNomeado.txt  
aluno@lab-dacc-08:~$ mv ArquivoRenomeado.txt /tmp/ArquivoMovido.txt  
mv: não foi possível obter estado de 'ArquivoRenomeado.txt': Arquivo ou diretório inexistente  
aluno@lab-dacc-08:~$ mv Arquivonomeado.txt /tmp/ArquivoMovido.txt  
mv: não foi possível obter estado de 'Arquivonomeado.txt': Arquivo ou diretório inexistente  
aluno@lab-dacc-08:~$ mv ArquivoNomeado.txt /tmp/ArquivoMovido.txt  
aluno@lab-dacc-08:~$ ls -lh /tmp/ArquivoMovido.txt  
-rw-rw-r-- 1 aluno aluno 28 set 22 16:28 /tmp/ArquivoMovido.txt  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
aluno@lab-dacc-08:~$ rmdir TesteDir2  
aluno@lab-dacc-08:~$ cd TesteDir2  
bash: cd: TesteDir2: Arquivo ou diretório inexistente  
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:~$ rm -rf TesteDir2  
aluno@lab-dacc-08:~$
```

```
-rwxr-xr-x 1 root root 4,5K abr 8 07:05 znew  
aluno@lab-dacc-08:~$ echo -e "(\\(\\ \n(-.)\\no_\\")(\\)"  
(\\(  
(-.)  
o_\\")(  
aluno@lab-dacc-08:~$ echo "Primeira linha do arquivo" > ArquivoTeste.txt  
aluno@lab-dacc-08:~$ ArquivoTeste.txt  
ArquivoTeste.txt: comando não encontrado  
aluno@lab-dacc-08:~$ cat ArquivoTeste.txt  
Primeira linha do arquivo  
aluno@lab-dacc-08:~$ echo "Segunda linha do arquivo (so que não)" > Aq  
aluno@lab-dacc-08:~$ echo "Segunda linha do arquivo (so que não)" > ArquivoTeste  
.txt  
aluno@lab-dacc-08:~$ cat ArquivoTeste.txt  
Segunda linha do arquivo (so que não)  
aluno@lab-dacc-08:~$ echo "Segunda linha do arquivo (de verdade)" >> ArquivoTest  
e.txt  
aluno@lab-dacc-08:~$ cat ArquivoTeste.txt  
Segunda linha do arquivo (so que não)  
Segunda linha do arquivo (de verdade)  
aluno@lab-dacc-08:~$ ls ArquivoInvalido.txt ArquivoTeste.txt > LsStdout.txt  
ls: não foi possível acessar 'ArquivoInvalido.txt': Arquivo ou diretório inexist  
ente  
aluno@lab-dacc-08:~$
```



```
aluno@lab-dacc-08: ~  
Segunda linha do arquivo (so que não)  
aluno@lab-dacc-08:~$ echo "Segunda linha do arquivo (de verdade)" >> ArquivoTeste.txt  
aluno@lab-dacc-08:~$ cat ArquivoTeste.txt  
Segunda linha do arquivo (so que não)  
Segunda linha do arquivo (de verdade)  
aluno@lab-dacc-08:~$ ls ArquivoInvalido.txt ArquivoTeste.txt > LsStdout.txt  
ls: não foi possível acessar 'ArquivoInvalido.txt': Arquivo ou diretório inexistente  
aluno@lab-dacc-08:~$ ls ArquivoInvalido.txt ArquivoTeste.txt 2> LsStdout.txt  
ArquivoTeste.txt  
aluno@lab-dacc-08:~$ cat LsStdout.txt  
ls: não foi possível acessar 'ArquivoInvalido.txt': Arquivo ou diretório inexistente  
aluno@lab-dacc-08:~$ LS ArquivoInvalido.txt ArquivoTeste.txt > LsStdout.txt 2> LsStdout.txt  
aluno@lab-dacc-08:~$ ArquivoInvalido.txt ArquivoTeste.txt &> LsStdout.txt  
aluno@lab-dacc-08:~$ ls ArquivoInvalido.txt ArquivoTeste.txt > LsStdout.txt 2> LsStdout.txt  
aluno@lab-dacc-08:~$ ls ArquivoInvalido.txt ArquivoTeste.txt &> LsStdout.txt  
aluno@lab-dacc-08:~$ ls ArquivoInvalido.txt ArquivoTeste.txt 2> /dev/null  
ArquivoTeste.txt  
aluno@lab-dacc-08:~$ grep a
```

```
aluno@lab-dacc-08: ~  
aluno@lab-dacc-08:~$ grep a  
"Goofy Goober Rock"  
"Dovahkiin"  
"Dovahkiin"  
^C  
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name"  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name" | head -1  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name" | head -1  
\model name     : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name" | head -1 | cut -d: -f2
```

```
aluno@lab-dacc-08: ~  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name" | head -1  
model name      : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name" | head -1  
\\model name     : Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name" | head -1 | cut -d: -  
f2  
Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
aluno@lab-dacc-08:~$ cat /proc/cpuinfo | grep "model name" | head -1 | cut -d: -  
f2 | cut -c2-  
Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
aluno@lab-dacc-08:~$ cat /etc/passwd | grep h | wc -l  
15  
aluno@lab-dacc-08:~$ cat /etc/passwd | cut -d: -f1 | grep h  
avahi-autoipd  
cups-pk-helper  
speech-dispatcher  
avahi  
hplip  
whoopsie  
lightdm  
sshd  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
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  
aluno@lab-dacc-08:~$ 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> <dump> <pass>  
# / was on /dev/nvme0n1p8 during installation  
UUID=bf741425-5ad0-4865-ad66-906781c30d34 / ext4 errors=remount  
-ro 0 1  
# /boot/efi was on /dev/nvme0n1p1 during installation  
UUID=8E68-D768 /boot/efi vfat umask=0077 0 1  
# /media/arquivos was on /dev/sda1 during installation  
# swap was on /dev/nvme0n1p7 during installation  
UUID=3f6a3ca4-191e-450b-be98-daca5bd7e2c7 none swap sw  
0 0  
/dev/disk/by-uuid/aa17929a-828c-4123-b88e-75c0748befbd /media/arquivos-linux aut  
o defaults 1 1  
/dev/disk/by-uuid/B234703834700221 /media/arquivos auto nosuid,nodew,nofail,x-gv
```



```
aluno@lab-dacc-08: ~  
tfido          60177/tcp          # fidonet EMSI over telnet  
fido           60179/tcp          # fidonet EMSI over TCP  
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.xhtml .  
ssh           22/tcp          # SSH Remote Login Protocol  
http          80/tcp          www          # WorldWideWeb HTTP  
https         443/tcp         # http protocol over TLS/SSL  
ircd          6667/tcp        # Internet Relay Chat  
aluno@lab-dacc-08:~$ cat /etc/protocols | grep UDP  
udp           17             UDP          # user datagram protocol  
udplite       136            UDPLite      # UDP-Lite [RFC3828]  
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  
aluno@lab-dacc-08:~$ cat /etc/timezone  
America/Porto_Velho  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
aluno@lab-dacc-08:~$ ls -alh ~  
total 276K  
drwxr-xr-x 25 aluno aluno 4,0K set 22 17:48 .  
drwxr-xr-x 4 root root 4,0K abr 2 20:05 ..  
drwxrwxr-x 6 aluno aluno 4,0K set 2 14:54 .android  
drwxrwxr-x 3 aluno aluno 4,0K abr 3 23:23 Android  
drwxrwxr-x 10 aluno aluno 4,0K set 9 10:54 AndroidStudioProjects  
drwxr-xr-x 2 aluno aluno 4,0K abr 6 10:44 .anydesk  
-rw-rw-r-- 1 aluno aluno 39 set 22 17:46 Aq  
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 77 set 22 17:47 ArquivoTeste.txt  
-rw----- 1 aluno aluno 6,6K set 22 18:00 .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 21 aluno aluno 4,0K set 22 16:13 .cache  
drwx----- 26 aluno aluno 4,0K set 23 14:10 .config  
drwxr-xr-x 4 aluno aluno 4,0K set 23 14:10 Documentos  
drwxr-xr-x 2 aluno aluno 4,0K set 23 14:01 Downloads  
-rw----- 1 aluno aluno 16 abr 7 10:05 .emulator_console_auth_token  
drwx----- 3 aluno aluno 4,0K set 23 14:20 .gnupg  
drwxrwxr-x 8 aluno aluno 4,0K set 2 14:43 .gradle  
drwxr-xr-x 3 aluno aluno 4,0K set 23 16:03 Imagens  
drwxrwxr-x 4 aluno aluno 4,0K abr 3 23:22 .java
```

```
aluno@lab-dacc-08: ~  
-rw-rw-r-- 1 aluno aluno 105 set 22 17:52 LsStdout.txt  
drwxr-xr-x 2 aluno aluno 4,0K abr 3 22:49 Modelos  
drwx----- 4 aluno aluno 4,0K abr 6 11:35 .mozilla  
drwxr-xr-x 2 aluno aluno 4,0K abr 2 20:18 Música  
-rw----- 1 aluno aluno 65 abr 7 10:35 .octave_hist  
drwx----- 3 aluno aluno 4,0K abr 3 23:23 .pki  
-rw-r--r-- 1 aluno aluno 807 abr 2 20:05 .profile  
drwxr-xr-x 2 aluno aluno 4,0K abr 2 20:18 Público  
-rw-rw-r-- 1 aluno aluno 2 abr 6 15:20 .repo_.gitconfig.json  
drwx----- 4 aluno aluno 4,0K abr 7 16:29 snap  
drwx----- 2 aluno aluno 4,0K abr 7 10:39 .ssh  
drwxr-xr-x 3 aluno aluno 4,0K abr 7 10:28 Vídeos  
drwxrwxr-x 3 aluno aluno 4,0K abr 3 23:23 .vscode  
aluno@lab-dacc-08:~$ echo $RANDOM  
29437  
aluno@lab-dacc-08:~$ echo $RANDOM  
17025  
aluno@lab-dacc-08:~$ echo $RANDOM  
14696  
aluno@lab-dacc-08:~$ echo $RANDOM  
3633  
aluno@lab-dacc-08:~$ echo "Timber Hearth" > /tmp/OuterWilds.txt  
aluno@lab-dacc-08:~$ cat /tmp/OuterWilds.txt > /dev/stdout  
Timber Hearth
```

```
aluno@lab-dacc-08: /  
aluno@lab-dacc-08:/$ cat /proc/diskstats | grep -v loop  
259 0 nvme0n1 46923 14399 3669227 10210 23697 30270 1177170 15387 0 29196 28204 0 0 0 0 2491 2605  
259 1 nvme0n1p1 316 974 15593 82 2 0 2 1 0 124 83 0 0 0 0 0 0  
259 2 nvme0n1p2 56 0 4160 54 0 0 0 0 0 48 54 0 0 0 0 0 0  
259 3 nvme0n1p3 56 0 4224 48 0 0 0 0 0 52 48 0 0 0 0 0 0  
259 4 nvme0n1p4 58 0 4176 60 0 0 0 0 0 52 60 0 0 0 0 0 0  
259 5 nvme0n1p5 58 0 4176 65 0 0 0 0 0 52 65 0 0 0 0 0 0  
259 6 nvme0n1p6 58 0 4176 43 0 0 0 0 0 48 43 0 0 0 0 0 0  
259 7 nvme0n1p7 87 0 6760 60 0 0 0 0 0 64 60 0 0 0 0 0 0  
259 8 nvme0n1p8 46134 13425 3622426 9777 23695 30270 1177168 15386 0 29096 25164 0 0 0 0 0 0  
8 0 sda 443 0 42670 9000 0 0 0 0 0 8724 9000 0 0 0 0 0 0  
8 1 sda1 238 0 38208 986 0 0 0 0 0 892 986 0 0 0 0 0 0  
aluno@lab-dacc-08:/$ iostat | grep -v loop  
Linux 5.15.0-48-generic (lab-dacc-08) 23/09/2022 _x86_64_ (12 CPU)  
  
avg-cpu:  %user   %nice %system %iowait  %steal   %idle  
           0,78    0,02    0,32    0,01    0,00   98,86  
  
Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd  
nvme0n1             7,49        194,50         62,43          0,00    1834613     588817         0  
sda                  0,05          2,26          0,00          0,00     21335         0         0  
  
aluno@lab-dacc-08:/$
```

```
aluno@lab-dacc-08: /bin
00000020 40 00 00 00 00 00 00 00 00 c0 23 02 00 00 00 00 00 |@.....#.....|
aluno@lab-dacc-08:/$ cd /bin
aluno@lab-dacc-08:/bin$ ls
'['
2to3-2.7
411toppm
7z
7za
7zr
aa-enabled
aa-exec
aconnect
acpi_listen
activity-log-manager
acyclic
adb
add-apt-repository
addpart
addr2line
alsabat
alsaloop
alsamixer
alsatplg
alsaucm
hostname
hostnamectl
hp-align
hp-check
hp-clean
hp-colorcal
hp-config_usb_printer
hp-doctor
hp-firmware
hp-info
hp-levels
hp-logcapture
hp-makeuri
hp-pkcservice
hp-plugin
hp-plugin-ubuntu
hp-probe
hp-query
hprof-conv
hp-scan
hp-setup
ppmtojpeg
ppmtorgb3
ppmtosixel
ppmtotga
ppmtouil
ppmtowinicon
ppmtoxpm
ppmtoyuv
ppmtoyuvsplit
ppmtv
pr
precat
preconv
preparetips5
preunzip
prezip
prezip-bin
prime-select
prime-supported
print
printafm
```

```
aluno@lab-dacc-08: /bin
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$ /bin/date
sex 23 set 2022 16:27:15 -04
aluno@lab-dacc-08:/bin$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/usr/local/cuda/bin
aluno@lab-dacc-08:/bin$ df -h
Sist. Arq. Tam. Usado Disp. Uso% Montado em
udev 7,7G 0 7,7G 0% /dev
tmpfs 1,6G 3,7M 1,6G 1% /run
/dev/nvme0n1p8 101G 36G 60G 38% /
tmpfs 7,8G 0 7,8G 0% /dev/shm
tmpfs 5,0M 4,0K 5,0M 1% /run/lock
tmpfs 7,8G 0 7,8G 0% /sys/fs/cgroup
/dev/loop0 128K 128K 0 100% /snap/bare/5
/dev/loop3 56M 56M 0 100% /snap/core18/2560
/dev/loop1 143M 143M 0 100% /snap/chromium/2082
/dev/loop2 143M 143M 0 100% /snap/chromium/2105
/dev/loop4 56M 56M 0 100% /snap/core18/2566
/dev/loop5 115M 115M 0 100% /snap/core/13741
/dev/loop6 101M 101M 0 100% /snap/core/13741
```

```
aluno@lab-dacc-08: /  
aluno@lab-dacc-08:/$ ls : /usr/bin/ls /usr/share/man/man1/ls.1.gz  
ls: não foi possível acessar '': Arquivo ou diretório inexistente  
/usr/bin/ls /usr/share/man/man1/ls.1.gz  
aluno@lab-dacc-08:/$ whereis /usr/bin/ls /usr/share/man/man1/ls.1.gz  
ls: /usr/bin/ls /usr/share/man/man1/ls.1.gz  
ls.1: /usr/share/man/man1/ls.1.gz  
aluno@lab-dacc-08:/$ whereis grep  
grep: /usr/bin/grep /usr/share/man/man1/grep.1.gz /usr/share/info/grep.info.gz  
aluno@lab-dacc-08:/$ whereis isconfig  
isconfig:  
aluno@lab-dacc-08:/$ whereis whereis  
whereis: /usr/bin/whereis /usr/share/man/man1/whereis.1.gz  
aluno@lab-dacc-08:/$ find /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  
/etc/console-setup/cached_setup_terminal.sh  
/etc/console-setup/compose.CP1251.inc
```

```
aluno@lab-dacc-08: /  
/etc/xdg/Xwayland-session.d/00-xrdb  
/etc/sysctl.conf  
/etc/firefox  
/etc/firefox/pref  
/etc/firefox/pref/apturl.js  
/etc/firefox/syspref.js  
aluno@lab-dacc-08:/$ find /etc | wc -l  
find: '/etc/polkit-1/localauthority': Permissão negada  
find: '/etc/cups/ssl': Permissão negada  
find: '/etc/ppp/peers': Permissão negada  
find: '/etc/ssl/private': Permissão negada  
find: '/etc/chatscripts': Permissão negada  
3235  
aluno@lab-dacc-08:/$ find /etc 2> /dev/null |wc -l  
3235  
aluno@lab-dacc-08:/$ find /usr/include -name *org*  
/usr/include/xorg  
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  
aluno@lab-dacc-08:/$
```

```
aluno@lab-dacc-08: ~  
/usr/include/Xorg/Xwacom.h  
aluno@lab-dacc-08:/$ cd /usr  
aluno@lab-dacc-08:/usr$ du -s  
16778196 .  
aluno@lab-dacc-08:/usr$ du -sh  
17G .  
aluno@lab-dacc-08:/usr$ du -sh *  
275M bin  
776K games  
30M include  
7,3G lib  
45M lib32  
4,0K lib64  
14M libexec  
42M libx32  
5,8G local  
36M sbin  
2,0G share  
653M src  
aluno@lab-dacc-08:/usr$ cd # volta para diretorio home  
aluno@lab-dacc-08:~$ echo "Mensagem no arquivo original" > ArquivoOriginal.txt  
aluno@lab-dacc-08:~$ ls -lh ArquivoOriginal.txt  
-rw-rw-r-- 1 aluno aluno 29 set 23 17:51 ArquivoOriginal.txt  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
5,8G local  
36M sbin  
2,0G share  
653M src  
aluno@lab-dacc-08:/usr$ cd # volta para diretorio home  
aluno@lab-dacc-08:~$ echo "Mensagem no arquivo original" > ArquivoOriginal.txt  
aluno@lab-dacc-08:~$ ls -lh ArquivoOriginal.txt  
-rw-rw-r-- 1 aluno aluno 29 set 23 17:51 ArquivoOriginal.txt  
aluno@lab-dacc-08:~$ ln -s ArquivoOriginal.txt ArquivoSimbolico.txt  
aluno@lab-dacc-08:~$ ls -lh ArquivoSimbolico.txt  
lrwxrwxrwx 1 aluno aluno 19 set 23 17:53 ArquivoSimbolico.txt -> ArquivoOriginal.txt  
aluno@lab-dacc-08:~$ cat ArquivoSimbolico.txt  
Mensagem no arquivo original  
aluno@lab-dacc-08:~$ echo "Mensagem concatenada no link simbolico" >>  
bash: erro de sintaxe próximo ao token inesperado `newline'  
aluno@lab-dacc-08:~$ echo "Mensagem concatenada no link simbolico" >>  
bash: erro de sintaxe próximo ao token inesperado `newline'  
aluno@lab-dacc-08:~$ pwd  
/home/aluno  
aluno@lab-dacc-08:~$ echo "Mensagem concatenada no link simbolico" >> ArquivoSimbolico.txt  
aluno@lab-dacc-08:~$ cat ArquivoOriginal.txt  
Mensagem no arquivo original  
Mensagem concatenada no link simbolico  
aluno@lab-dacc-08:~$ rm ArquivoOriginal.txt
```



```
aluno@lab-dacc-08: ~  
aluno@lab-dacc-08:~$ ls -lh ArquivoOriginal12.txt ArquivoLinkFisico.txt  
-rw-rw-r-- 1 aluno aluno 36 set 23 18:01 ArquivoLinkFisico.txt  
-rw-rw-r-- 2 aluno aluno 31 set 23 17:59 ArquivoOriginal12.txt  
aluno@lab-dacc-08:~$ rm ArquivoOriginal12.txt  
aluno@lab-dacc-08:~$ ls -lh ArquivoFisico.txt  
-rw-rw-r-- 1 aluno aluno 31 set 23 17:59 ArquivoFisico.txt  
aluno@lab-dacc-08:~$ cat ArquivoLinkFisico.txt  
Mensagem concatenada no link fisico  
aluno@lab-dacc-08:~$ ls -alh | grep "\." | head -2  
\.: comando não encontrado  
aluno@lab-dacc-08:~$ ls -alh | grep "\." | head -2  
drwxr-xr-x 25 aluno aluno 4,0K set 23 18:02 .  
drwxr-xr-x 4 root root 4,0K abr 2 20:05 ..  
aluno@lab-dacc-08:~$ mkdir NovoSubDiretorio  
aluno@lab-dacc-08:~$ ls -alh | grep "\." | head -2  
drwxr-xr-x 26 aluno aluno 4,0K set 23 18:04 .  
drwxr-xr-x 4 root root 4,0K abr 2 20:05 ..  
aluno@lab-dacc-08:~$ ls -alh | grep NovoSubDiretorio  
drwxrwxr-x 2 aluno aluno 4,0K set 23 18:04 NovoSubDiretorio  
aluno@lab-dacc-08:~$ ls -alh NovoSubDiretorio/  
total 8,0K  
drwxrwxr-x 2 aluno aluno 4,0K set 23 18:04 .  
drwxr-xr-x 26 aluno aluno 4,0K set 23 18:04 ..  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
aluno@lab-dacc-08:~$ ps  
  PID TTY          TIME CMD  
 5600 pts/0      00:00:00 bash  
 5608 pts/0      00:00:00 ps  
aluno@lab-dacc-08:~$ cat &  
[1] 5610  
aluno@lab-dacc-08:~$ ps  
  PID TTY          TIME CMD  
 5600 pts/0      00:00:00 bash  
 5610 pts/0      00:00:00 cat  
 5613 pts/0      00:00:00 ps  
  
[1]+  Parado          cat  
aluno@lab-dacc-08:~$ ps -f  
UID          PID    PPID  C STIME TTY          TIME CMD  
aluno         5600    5518  0 15:25 pts/0      00:00:00 bash  
aluno         5610    5600  0 15:26 pts/0      00:00:00 cat  
aluno         5620    5600  0 15:26 pts/0      00:00:00 ps -f  
aluno@lab-dacc-08:~$ ps -ef  
UID          PID    PPID  C STIME TTY          TIME CMD  
root           1         0  0 13:58 ?        00:00:01 /sbin/init recovery dis_ucod  
root           2         0  0 13:58 ?        00:00:00 [kthreadd]  
root           3         2  0 13:58 ?        00:00:00 [rcu_gp]  
root           4         2  0 13:58 ?        00:00:00 [rcu_par_gp]
```

```
aluno@lab-dacc-08: ~  
aluno@lab-dacc-08:~$ ps -ef | wc -l  
336  
aluno@lab-dacc-08:~$ top  
  
top - 15:28:18 up 1:29, 1 user, load average: 0,12, 0,20, 0,09  
Tarefas: 334 total, 1 em exec., 332 dormindo, 1 parado, 0 zumbi  
%CPU(s): 1,7 us, 0,4 sis, 0,0 ni, 97,9 oc, 0,0 ag, 0,0 ih, 0,0 is 0,0 tr  
MB mem : 15808,5 total, 11649,9 livre, 2164,0 usados, 1994,6 buff/cache  
MB swap: 3906,0 total, 3906,0 livre, 0,0 usados, 13166,7 mem dispon.  


| PID  | USUARIO | PR | NI | VIRT    | RES    | SHR    | S | %CPU | %MEM | TEMPO+   | COMANDO  |
|------|---------|----|----|---------|--------|--------|---|------|------|----------|----------|
| 2192 | aluno   | 20 | 0  | 7029064 | 411632 | 155016 | S | 6,6  | 2,5  | 13:47.27 | gnome-s+ |
| 2629 | aluno   | 20 | 0  | 3810396 | 584712 | 227976 | S | 6,3  | 3,6  | 7:43.62  | firefox  |
| 2006 | root    | 20 | 0  | 499500  | 313332 | 96460  | S | 4,0  | 1,9  | 3:00.64  | Xorg     |
| 3662 | aluno   | 20 | 0  | 2825184 | 325620 | 164356 | S | 2,7  | 2,0  | 0:47.55  | Isolate+ |
| 5518 | aluno   | 20 | 0  | 816140  | 52632  | 39920  | S | 0,7  | 0,3  | 0:01.80  | gnome-t+ |

  
top - 15:28:36 up 1:29, 1 user, load average: 0,25, 0,22, 0,10  
Tarefas: 335 total, 1 em exec., 333 dormindo, 1 parado, 0 zumbi  
%CPU(s): 16,9 us, 1,1 sis, 0,0 ni, 81,9 oc, 0,0 ag, 0,0 ih, 0,0 is 0,0 tr  
MB mem : 15808,5 total, 11637,5 livre, 2175,1 usados, 1996,0 buff/cache  
MB swap: 3906,0 total, 3906,0 livre, 0,0 usados, 13154,3 mem dispon.  


| PID  | USUARIO | PR | NI | VIRT    | RES    | SHR    | S | %CPU  | %MEM | TEMPO+   | COMANDO  |
|------|---------|----|----|---------|--------|--------|---|-------|------|----------|----------|
| 2192 | aluno   | 20 | 0  | 7029960 | 412896 | 155800 | S | 187,5 | 2,6  | 13:54.81 | gnome-s+ |


```

```
5 root 0 -20 0 0 0 1 0,0 0,0 0:00.00 netns  
aluno@lab-dacc-08:~$ top -o %MEM  
  
top - 15:29:21 up 1:30, 1 user, load average: 0,99, 0,41, 0,16  
Tarefas: 336 total, 2 em exec., 333 dormindo, 1 parado, 0 zumbi  
%CPU(s): 1,0 us, 0,5 sis, 0,0 ni, 98,5 oc, 0,0 ag, 0,0 ih, 0,0 is 0,0 tr  
MB mem : 15808,5 total, 11642,5 livre, 2170,7 usados, 1995,3 buff/cache  
MB swap: 3906,0 total, 3906,0 livre, 0,0 usados, 13159,8 mem dispon.  


| PID  | USUARIO | PR | NI | VIRT    | RES    | SHR    | S | %CPU | %MEM | TEMPO+   | COMANDO  |
|------|---------|----|----|---------|--------|--------|---|------|------|----------|----------|
| 2629 | aluno   | 20 | 0  | 3810380 | 584848 | 227980 | S | 5,6  | 3,6  | 7:47.93  | firefox  |
| 2192 | aluno   | 20 | 0  | 7029064 | 411896 | 155016 | S | 6,6  | 2,5  | 14:10.24 | gnome-s+ |
| 3662 | aluno   | 20 | 0  | 2825184 | 325604 | 164356 | S | 2,0  | 2,0  | 0:49.62  | Isolate+ |
| 2006 | root    | 20 | 0  | 498612  | 312432 | 96556  | R | 5,0  | 1,9  | 3:05.38  | Xorg     |
| 5113 | aluno   | 20 | 0  | 1593084 | 306324 | 140160 | S | 0,0  | 1,9  | 0:06.08  | soffice+ |

  
top - 15:29:31 up 1:30, 1 user, load average: 0,83, 0,40, 0,16  
Tarefas: 337 total, 1 em exec., 335 dormindo, 1 parado, 0 zumbi  
%CPU(s): 18,8 us, 1,4 sis, 0,0 ni, 79,8 oc, 0,0 ag, 0,0 ih, 0,0 is 0,0 tr  
MB mem : 15808,5 total, 11620,6 livre, 2191,3 usados, 1996,7 buff/cache  
MB swap: 3906,0 total, 3906,0 livre, 0,0 usados, 13137,9 mem dispon.  


| PID  | USUARIO | PR | NI | VIRT    | RES    | SHR    | S | %CPU  | %MEM | TEMPO+   | COMANDO  |
|------|---------|----|----|---------|--------|--------|---|-------|------|----------|----------|
| 2629 | aluno   | 20 | 0  | 3810380 | 585108 | 227980 | S | 6,0   | 3,6  | 7:48.38  | firefox  |
| 2192 | aluno   | 20 | 0  | 7042668 | 425776 | 155696 | S | 203,0 | 2,6  | 14:17.41 | gnome-s+ |


```

```
aluno@lab-dacc-08: ~  
5513 aluno 20 0 865604 57900 42564 S 0,0 0,4 0:00.18 gnome-c+  
2387 aluno 20 0 502848 57244 44240 S 0,0 0,4 0:01.71 kdeconn+  
3647 aluno 20 0 335676 54720 44312 S 0,0 0,3 0:00.08 RDD Pro+  
aluno@lab-dacc-08:~$ ps |grep cat | xargs | cut -d" " -f1  
5610  
aluno@lab-dacc-08:~$ kill^C  
aluno@lab-dacc-08:~$ kill 5610  
aluno@lab-dacc-08:~$ ps | grep cat  
5610 pts/0 00:00:00 cat  
aluno@lab-dacc-08:~$ kill -9 5610  
aluno@lab-dacc-08:~$ ps | grep cat  
[1]+  Morto cat  
aluno@lab-dacc-08:~$ cat &  
[1] 5886  
aluno@lab-dacc-08:~$ cat &  
[2] 5887  
  
[1]+  Parado cat  
aluno@lab-dacc-08:~$ ps | grep cat  
5886 pts/0 00:00:00 cat  
5887 pts/0 00:00:00 cat  
  
[2]+  Parado cat  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
[1]-  Morto cat  
[2]+  Morto cat  
aluno@lab-dacc-08:~$ free  
              total        usada        livre      compart.  buff/cache  disponivel  
Mem.:          16187912      2238472      11855480        249396      2093960      13410600  
Swap:           3999740           0         3999740  
aluno@lab-dacc-08:~$ free -h  
              total        usada        livre      compart.  buff/cache  disponivel  
Mem.:           15Gi        2,1Gi        11Gi          243Mi        2,0Gi        12Gi  
Swap:           3,8Gi          0B         3,8Gi  
aluno@lab-dacc-08:~$ ps -ef | grep -v grep | grep "System-udev\|systemd-resolve  
d\|systemd-timesyncd\|systemd-logind\|cron\|rsyslogd\|atd\|thermald\|acpid\|cups  
d\|Xorg"  
systemd+      832          1  0 14:00 ?          00:00:00 /lib/systemd/systemd-timesyn  
cd  
root          1052          1  0 14:00 ?          00:00:00 /usr/sbin/cron -f  
root          1054          1  0 14:00 ?          00:00:00 /usr/sbin/cupsd -l  
syslog        1078          1  0 14:00 ?          00:00:00 /usr/sbin/rsyslogd -n -iNONE  
root          1093          1  0 14:00 ?          00:00:00 /lib/systemd/systemd-logind  
systemd+      1097          1  0 14:00 ?          00:00:00 /lib/systemd/systemd-resolve  
d  
root          1098          1  0 14:00 ?          00:00:00 /usr/sbin/thermald --systemd  
--dbus-enable --adaptive  
root          1502        1500  0 14:00 tty1          00:00:02 /usr/lib/xorg/Xorg vt1 -disp
```

```
aluno@lab-dacc-08: ~  
verbose 3  
aluno@lab-dacc-08:~$ cat /proc/cmdline  
BOOT_IMAGE=/boot/vmlinuz-5.15.0-48-generic root=UUID=bf741425-5ad0-4865-ad66-906  
781c30d34 ro recovery nomodeset dis_ucode_ldr  
aluno@lab-dacc-08:~$ ls -fd /sbin/init /etc/init /bin/init  
ls: não foi possível acessar '/bin/init': Arquivo ou diretório inexistente  
/sbin/init /etc/init  
aluno@lab-dacc-08:~$ ls -lh /sbin/init  
lrwxrwxrwx 1 root root 20 ago 31 11:27 /sbin/init -> /lib/systemd/systemd  
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/apport-autoreport.service  
/lib/systemd/system/apport-forward@.service  
/lib/systemd/system/apt-daily.service  
/lib/systemd/system/apt-daily-upgrade.service  
/lib/systemd/system/autovt@.service  
/lib/systemd/system/avahi-daemon.service  
/lib/systemd/system/binfmt-support.service
```

```
aluno@lab-dacc-08: ~  
/lib/systemd/system/vboxweb.service.service  
/lib/systemd/system/wacom-inputattach@.service  
/lib/systemd/system/whoopsie.service  
/lib/systemd/system/wpa_supplicant-nl80211@.service  
/lib/systemd/system/wpa_supplicant.service  
/lib/systemd/system/wpa_supplicant@.service  
/lib/systemd/system/wpa_supplicant-wired@.service  
/lib/systemd/system/x11-common.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  
aluno@lab-dacc-08:~$
```

```
aluno@lab-dacc-08: ~  
WantedBy=multi-user.target  
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  
aluno@lab-dacc-08:~$ head -1 /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
aluno@lab-dacc-08:~$ cat /etc/passwd | grep "mail\\|www=data\\|syslog\\|sshd"  
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin  
syslog:x:104:110:/:home/syslog:/usr/sbin/nologin  
sshd:x:129:65534:/:run/sshd:/usr/sbin/nologin  
aluno@lab-dacc-08:~$ cat /etc/passwd | wc -l  
51  
aluno@lab-dacc-08:~$ cat /etc/passwd | cut -f1- -d: | sort | tr "\\n" " " ; echo  
administrador:x:1000:1000:Administrador,,,:/home/administrador:/bin/bash aluno::  
1001:1001:Aluno,,,:/home/aluno:/bin/bash _apt:x:105:65534:/:nonexistent:/usr/sbin/nologin  
avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin  
avahi:x:115:121:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin  
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin  
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin  
cups-pk-helper:x:113:120:user for cups-pk-helper
```

```
administrador@lab-dacc-08: ~  
administrador@lab-dacc-08:~$ cat /etc/shadow  
cat: /etc/shadow: Permissão negada  
administrador@lab-dacc-08:~$ sudo cat /etc/shadow  
root:$6$fyU9Rw3N.LqItk0n$SrjLAfkz9RkC7fA.S9E3oQAujB/W9Xgv9f0yPTV0rADqNc.oRjh7dtGj  
R20MikCpyrvS6t0/UGj14P60yg2G0l0:19087:0:99999:7:::  
daemon*:19046:0:99999:7:::  
bin*:19046:0:99999:7:::  
sys*:19046:0:99999:7:::  
sync*:19046:0:99999:7:::  
games*:19046:0:99999:7:::  
man*:19046:0:99999:7:::  
lp*:19046:0:99999:7:::  
mail*:19046:0:99999:7:::  
news*:19046:0:99999:7:::  
uucp*:19046:0:99999:7:::  
proxy*:19046:0:99999:7:::  
www-data*:19046:0:99999:7:::  
backup*:19046:0:99999:7:::  
list*:19046:0:99999:7:::  
irc*:19046:0:99999:7:::  
gnats*:19046:0:99999:7:::  
nobody*:19046:0:99999:7:::  
systemd-network*:19046:0:99999:7:::  
systemd-resolve*:19046:0:99999:7:::
```



```
administrador@lab-dacc-08: ~  
administrador@lab-dacc-08:~$ sudo cat /etc/shadow | grep deivison  
deivison:$6$4ZgNW97d0IRunkqL$7XxapVgkYaFT7yAwLpiYHUi7mpY3mv47sjhHCRwY1PnPUiP.i7E  
SCxBiA/VouSYZ/Crxoe34x2nHfU9rIHEI51:19263:0:99999:7:::  
administrador@lab-dacc-08:~$ echo -n "ncc1701" | mkpasswd --stdin --method=sha-5  
12 --salt=".x7wn"  
  
Comando 'mkpasswd' não encontrado, mas poder ser instalado com:  
  
sudo apt install whois  
  
administrador@lab-dacc-08:~$ echo -n "ncc1701" | mkpasswd --stdin --method=sha-5  
12 --salt=".x7wnz7y713Atz"  
  
Comando 'mkpasswd' não encontrado, mas poder ser instalado com:  
  
sudo apt install whois  
  
administrador@lab-dacc-08:~$ sudo apt install whois  
Lendo listas de pacotes... Pronto  
Construindo árvore de dependências  
Lendo informação de estado... Pronto  
O seguinte pacote foi instalado automaticamente e já não é necessário:  
  libminizip1  
Utilize 'sudo apt autoremove' para o remover.
```

```
administrador@lab-dacc-08: ~  
adm:x:4:syslog,administrador  
administrador@lab-dacc-08:~$ head -3 /etc/group | grep '^deivison:'  
administrador@lab-dacc-08:~$ head -3 /etc/group | grep '^deivison:'  
administrador@lab-dacc-08:~$ head -3 /etc/group | grep 'deivison:'  
administrador@lab-dacc-08:~$ /etc/shadow  
bash: /etc/shadow: Permissão negada  
administrador@lab-dacc-08:~$ cat /etc/shadow  
cat: /etc/shadow: Permissão negada  
administrador@lab-dacc-08:~$ cat /etc/shadow | grep deivison  
cat: /etc/shadow: Permissão negada  
administrador@lab-dacc-08:~$ sudo cat /etc/shadow | grep deivison  
deivison:$6$4ZgNW97d0IRunkqL$7XxapVgkYaFT7yAwLpiYHUi7mpY3mv47sjhHCRwY1PnPUiP.i7E  
SCxBiA/VouSYZ/Crxoe34x2nHfU9rIHEI51:19263:0:99999:7:::  
administrador@lab-dacc-08:~$ mkpasswd  
Senha:  
aTrndiUVjcVM2  
administrador@lab-dacc-08:~$ echo -n "deivison" | mkpasswd --stdin --method=sha-  
512 --salt="aTrndiUVjcVM2"  
$6$aTrndiUVjcVM2$HhDKbpQEwnyA27paK3yFbL.bM4jbgn2weQvhE5FYd1oSo6eZf2gL.tFWA4TXAUX  
PzRcFNScy6H0ywk.7hAJ/00  
administrador@lab-dacc-08:~$ sudo cat /etc/shadow | grep deivison  
deivison:$6$4ZgNW97d0IRunkqL$7XxapVgkYaFT7yAwLpiYHUi7mpY3mv47sjhHCRwY1PnPUiP.i7E  
SCxBiA/VouSYZ/Crxoe34x2nHfU9rIHEI51:19263:0:99999:7:::  
administrador@lab-dacc-08:~$
```

```
administrador@lab-dacc-08: ~
mount-ntfs:x:1002:aluno,administrador
vboxusers:x:137:
deivison:x:1003:
administrador@lab-dacc-08:~$ head -3 /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
administrador@lab-dacc-08:~$ head -3 /etc/group | grep 'deivison'
administrador@lab-dacc-08:~$ head -3 /etc/group | grep '^deivison'
administrador@lab-dacc-08:~$ cat /etc/group | grep '^adm:'
adm:x:4:syslog,administrador
administrador@lab-dacc-08:~$ sudo addgroup novogrupo
Adicionando grupo 'novogrupo' (GID 1004) ...
Concluido.
administrador@lab-dacc-08:~$ cat /etc/group | grep '^novogrupo:'
novogrupo:x:1004:
administrador@lab-dacc-08:~$ sudo usermod -a -G novogrupo deivison
sudo: usermod: comando não encontrado
administrador@lab-dacc-08:~$ sudo usermod -a -G novogrupo deivison
administrador@lab-dacc-08:~$ cat /etc/group | grep '^novogrupo:'
novogrupo:x:1004:deivison
administrador@lab-dacc-08:~$ groups deivison
deivison : deivison novogrupo
administrador@lab-dacc-08:~$
```

```
administrador@lab-dacc-08: ~
deivison : deivison novogrupo
administrador@lab-dacc-08:~$ id
uid=1000(administrador) gid=1000(administrador) grupos=1000(administrador),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),120(lpadmin),132(lxd),133(sambashare),1002(mount-ntfs)
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
echo "Hello Bash ..."
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rw-rw-r-- 1 administrador administrador 22 set 28 17:47 HelloBash.sh
administrador@lab-dacc-08:~$ ./HelloBash.sh
bash: ./HelloBash.sh: Permissão negada
administrador@lab-dacc-08:~$ chmod u+x HelloBash.sh
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rwxrw-r-- 1 administrador administrador 22 set 28 17:47 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 22 set 28 17:47 HelloBash.sh
administrador@lab-dacc-08:~$ cat HelloBash.sh
echo "Hello Bash ..."
administrador@lab-dacc-08:~$
```

```
administrador@lab-dacc-08: ~  
administrador@lab-dacc-08:~$ chmod 755 HelloBash.sh  
administrador@lab-dacc-08:~$ ls -l HelloBash.sh  
-rwxr-xr-x 1 administrador administrador 22 set 28 17:47 HelloBash.sh  
administrador@lab-dacc-08:~$ sudo chgrp novogrupa HelloBash.sh  
administrador@lab-dacc-08:~$ ls -l HelloBash.sh  
-rwxr-xr-x 1 administrador novogrupa 22 set 28 17:47 HelloBash.sh  
administrador@lab-dacc-08:~$ 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  
Defaults                mail_badpass  
Defaults                secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/  
sbin:/bin:/snap/bin"  
  
# Host alias specification  
  
# User alias specification
```