Exercicios Práticos Comandos Linux 6

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1 - Gestão de Pacotes

```
correia@correia-VirtualBox:~$ sudo apt update
[sudo] password for correia:
Hit:1 http://pt.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://pt.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://pt.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
6 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

```
correia@correia-VirtualBox:~$ sudo apt install vim
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  vim-runtime
Suggested packages:
  ctags vim-doc vim-scripts
The following NEW packages will be installed:
  vim vim-runtime
```

```
correia@correia-VirtualBox:~$ sudo apt remove nano
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages will be REMOVED:
  nano
0 upgraded, 0 newly installed, 1 to remove and 6 not upgraded.
After this operation, 881 kB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 202506 files and directories currently installed.)
Removing nano (6.2-1) ...
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/editor (editor
) in auto mode
Processing triggers for install-info (6.8-4build1) ...
Processing triggers for man-db (2.10.2-1) ...
```

```
correia@correia-VirtualBox:~$ apt search python
```

```
python3-etesync/jammy,jammy 0.12.1-1 all
  python client library for EteSync

python3-ethtool/jammy 0.14-3build5 amd64
  Python bindings for the ethtool kernel interface - Python 3.x

python3-evdev/jammy 1.4.0+dfsg-1build2 amd64
  Python 3 bindings for the Linux input subsystem

python3-evemu/jammy 2.7.0-3 amd64
  Linux Input Event Device Emulation Library - Python3 bindings

python3-eventlet/jammy,jammy 0.30.2-5ubuntu2 all
  concurrent networking library

python3-evtx/jammy,jammy 0.6.1-2 all
  parser for recent Windows Event Log files -- Python 3 version

python3-ewmh/jammy,jammy 0.1.6-2 all
  Python interface to EWMH-compliant window managers (Python 3)
```

```
correia@correia-VirtualBox:~$ python3 --version
Python 3.10.12
```

2 - Pesquisa e Filtragem

```
correia@correia-VirtualBox:~$ grep "root" /etc/passwd
root:x:0:0:root:/root:/bin/bash
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin
/nologin
```

```
correia@correia-VirtualBox:~$ find /etc -type f -name '*.conf'
/etc/sane.d/qcam.conf
/etc/sane.d/canon630u.conf
/etc/sane.d/canon_dr.conf
/etc/sane.d/test.conf
/etc/sane.d/snapscan.conf
/etc/sane.d/hp.conf
/etc/sane.d/canon_pp.conf
/etc/sane.d/plustek.conf
```

3 - Permissões de Arquivos

```
correia@correia-VirtualBox:~/Documents$ touch arquivo_permissao.txt
correia@correia-VirtualBox:~/Documents$ ls -l
total 0
-rw-rw-r-- 1 correia correia 0 fev 26 21:10 arquivo_permissao.txt
correia@correia-VirtualBox:~/Documents$ sudo chmod 600 arquivo_permissao.txt
correia@correia-VirtualBox:~/Documents$ ls -l
total 0
-rw------- 1 correia correia 0 fev 26 21:10 arquivo_permissao.txt
```

4 - Manipulação de Arquivos

```
correia@correia-VirtualBox:~/Documents$ touch arquivo.txt
correia@correia-VirtualBox:~/Documents$ vi arquivo.txt
```

```
correia@correia-VirtualBox:~/Documents$ cat arquivo.txt
Olá
Mundo
correia@correia-VirtualBox:~/Documents$ cp arquivo.txt copia_arquivo.txt
correia@correia-VirtualBox:~/Documents$ mv copia_arquivo.txt arquivo_copiado.txt
correia@correia-VirtualBox:~/Documents$ ls
arquivo_copiado.txt  arquivo_permissao.txt  arquivo.txt
```

5 - Navegação no Sistema de Arquivos

```
correia@correia-VirtualBox:~/Documents$ ls
arquivo_copiado.txt  arquivo_permissao.txt  arquivo.txt
correia@correia-VirtualBox:~/Documents$ cd /etc
correia@correia-VirtualBox:/etc$ ls passwd
passwd
correia@correia-VirtualBox:/etc$ cd -
/home/correia/Documents
correia@correia-VirtualBox:~/Documents$ mkdir exercicio_linux
correia@correia-VirtualBox:~/Documents$ cd exercicio_linux/
correia@correia-VirtualBox:~/Documents/exercicio_linux$
```

6 - Compactação e Descompactação

```
correia@correia-VirtualBox:~/Documents$ tar -cvzf exercicio_linux_compactado_tar
.gz exercicio_linux
exercicio_linux/
correia@correia-VirtualBox:~/Documents$ ls
arquivo_copiado.txt     arquivo.txt      exercicio_linux_compactado_tar.gz
arquivo_permissao.txt   exercicio_linux
```

```
correia@correia-VirtualBox:~/Documents$ rmdir exercicio_linux/
correia@correia-VirtualBox:~/Documents$ ls
arquivo_copiado.txt     arquivo.txt
arquivo_permissao.txt   exercicio_linux_compactado.tar.gz
correia@correia-VirtualBox:~/Documents$ tar -xvzf exercicio_linux_compactado.tar
.gz
exercicio_linux/
correia@correia-VirtualBox:~/Documents$ ls
arquivo_copiado.txt     arquivo.txt      exercicio_linux_compactado.tar.gz
arquivo_permissao.txt   exercicio_linux
```

7 - Rede e Conectividade

```
correia@correia-VirtualBox:~/Documents$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
        inet6 fe80::e73:fc6f:691a:b548  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:88:7d:75  txqueuelen 1000  (Ethernet)
        RX packets 7403  bytes 10644230 (10.6 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 5706  bytes 374199 (374.1 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 193  bytes 18459 (18.4 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 193  bytes 18459 (18.4 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

correia@correia-VirtualBox:~/Documents$ hostname -I
10.0.2.15
```

8 - Gestão de Processos

```
correia@correia-VirtualBox:~/Documents$ ps aux
```

```
correia     3578   0.0   2.0 339880 80340 ?        Ssl  21:27   0:00 /usr/libexec/
correia     3613   0.0   0.6 202876 25332 ?        Sl   21:27   0:00 /usr/libexec/
correia     3697   4.8   2.4 917080 99436 ?        Sl   21:30   0:06 rhythmbox
correia     3727   0.0   0.2 397380  9088 ?        Sl   21:30   0:00 /usr/libexec/
```

```
correia@correia-VirtualBox:~/Documents$ kill 3697
```

```
correia@correia-VirtualBox:~/Documents$ vim &
[1] 3779
```

9 - Variáveis de Ambiente

```
correia@correia-VirtualBox:~/Documents$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/loc
al/games:/snap/bin:/snap/bin
correia@correia-VirtualBox:~/Documents$ export MEU_NOME='João'
correia@correia-VirtualBox:~/Documents$ echo $MEU_NOME
João
```

10 - Visualização de Arquivos

```
correia@correia-VirtualBox:~/Documents$ head -n 1 arquivo.txt
Olá
correia@correia-VirtualBox:~/Documents$ tail -n 1 arquivo.txt
Mundo
```