

Uso básico de comandos en Linux (Ubuntu)

Ejercicios 1, 2 y 3:

```
2024/03/21 (jueves) [18:03:36] MV-Servidor-Ubuntu@anibal
~
$ COMPANIERO=César

2024/03/21 (jueves) [18:04:33] MV-Servidor-Ubuntu@anibal
~
$ $COMPANIERO
César: command not found

2024/03/21 (jueves) [18:04:51] MV-Servidor-Ubuntu@anibal
~
$ echo $COMPANIERO > companiero.txt

2024/03/21 (jueves) [18:07:35] MV-Servidor-Ubuntu@anibal
~
$ cat companiero.txt
César

2024/03/21 (jueves) [18:07:52] MV-Servidor-Ubuntu@anibal
~
$ echo $companiero

2024/03/21 (jueves) [18:09:14] MV-Servidor-Ubuntu@anibal
~
```

Ejercicio 4:

```
2024/03/21 (jueves) [18:09:35] MV-Servidor-Ubuntu@anibal
~
$ exit

2024/03/21 (jueves) [18:12:25] MV-Servidor-Ubuntu@anibal
~
$ echo $COMPANIERO

2024/03/21 (jueves) [18:12:45] MV-Servidor-Ubuntu@anibal
~
```

Ejercicio 5:

```
2024/03/21 (jueves) [18:12:45] MV-Servidor-Ubuntu@anibal
~
$ echo "COMPANIERO=RICARDO" >> .bashrc

2024/03/21 (jueves) [18:14:48] MV-Servidor-Ubuntu@anibal
~
$ exit
```

```
2024/03/21 (jueves) [18:15:25] MV-Servidor-Ubuntu@anibal
~
$ echo $COMPANIERO
RICARDO
```

```
2024/03/21 (jueves) [21:15:30] MV-Servidor-Ubuntu@anibal
~
$ cat .bashrc_
```

```
# Custom bash prompt
fecha='\[\e[1;35m\]$(date +"%Y/%m/%d") ($(date +"%A"))'
hora='\[\e[0;36m\] [\t] '
usuario='\[\e[0;32m\]\h@\u'
dir='\[\e[0;33m\]\w'
reset='\[\e[0m\]'
PS1="\n $fecha $hora $usuario\n $dir $reset\n $ "
```

```
COMPANIERO=RICARDO
```

```
2024/03/21 (jueves) [18:18:28] MV-Servidor-Ubuntu@anibal
```

Ejercicio 6:

```
2024/03/21 (jueves) [18:18:28] MV-Servidor-Ubuntu@anibal
~
$ COMPANIERO=$COMPANIERO:PEREZ
```

```
2024/03/21 (jueves) [18:20:29] MV-Servidor-Ubuntu@anibal
~
$ echo $COMPANIERO
RICARDO:PEREZ
```

Ejercicio 7:

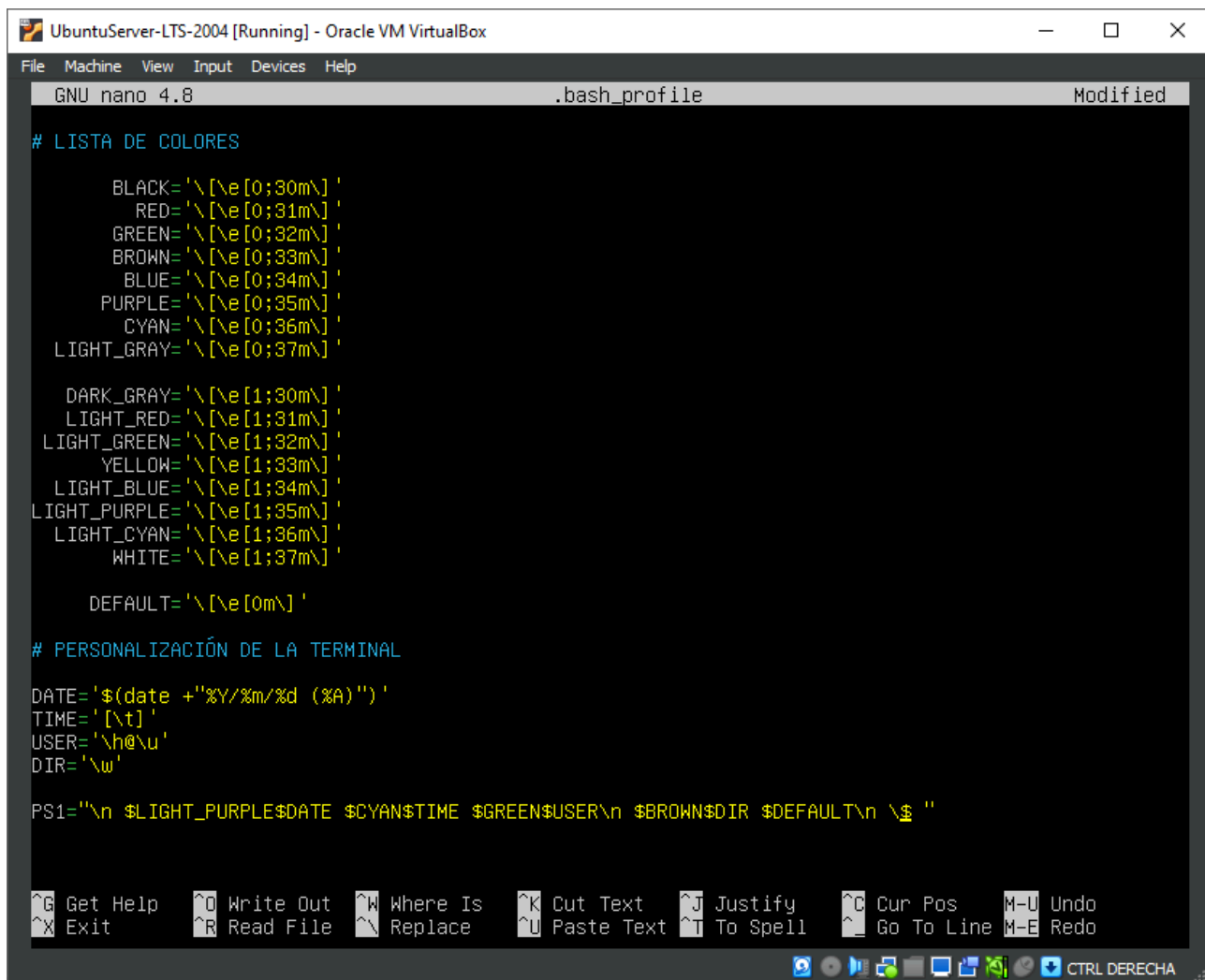
```
2024/03/21 (jueves) [18:25:52] MV-Servidor-Ubuntu@anibal
~
$ echo $PS1
\n \[\e[1;35m\]$(date +"%Y/%m/%d") ($(date +"%A")) \[\e[0;36m\] [\t] \[\e[0;32m\]\h@\u\n \[\e[0;33m\]
\w \[\e[0m\]\n $
```

```
2024/03/23 (sábado) [20:11:42] MV-Servidor-Ubuntu@anibal
~
$ PS1="$PWD [\t]\\>\$ "
/home/anibal [20:11:47]\>$ l
compañero.txt COPIAS/ TEMPORAL/ trabajo/ TRABAJOS/
/home/anibal [20:11:52]\>$ cd trabajo
/home/anibal [20:12:03]\>$ l
Carcoma hola.txt PRUEBA1/ PRUEBA2/ tecleado.txt Tests/
/home/anibal [20:12:05]\>$ cd
/home/anibal [20:12:32]\>$ source .bash_profile
```

```
2024/03/23 (sábado) [20:12:37] MV-Servidor-Ubuntu@anibal
~
$ ls
compañero.txt COPIAS TEMPORAL trabajo TRABAJOS
```

Ejercicio 8:

```
2024/03/21 (jueves) [19:51:25] MV-Servidor-Ubuntu@anibal
~
$ nano .bash_profile
```



The screenshot shows a terminal window titled "UbuntuServer-LTS-2004 [Running] - Oracle VM VirtualBox". Inside, the GNU nano 4.8 editor is open, editing the file .bash_profile. The file contains color definitions for the terminal, personalization of the terminal (DATE, TIME, USER, DIR), and a custom PS1 prompt. The prompt is set to a multi-colored string including the date, time, username, and directory. The bottom of the window shows a menu bar with various shortcuts like Get Help, Write Out, Where Is, Cut Text, Justify, Cur Pos, M-U Undo, Exit, Read File, Replace, Paste Text, To Spell, Go To Line, M-E Redo, and a status bar with "CTRL DERECHA".

```
GNU nano 4.8 .bash_profile Modified

# LISTA DE COLORES

BLACK='\[\e[0;30m\]'
RED='\[\e[0;31m\]'
GREEN='\[\e[0;32m\]'
BROWN='\[\e[0;33m\]'
BLUE='\[\e[0;34m\]'
PURPLE='\[\e[0;35m\]'
CYAN='\[\e[0;36m\]'
LIGHT_GRAY='\[\e[0;37m\]'

DARK_GRAY='\[\e[1;30m\]'
LIGHT_RED='\[\e[1;31m\]'
LIGHT_GREEN='\[\e[1;32m\]'
YELLOW='\[\e[1;33m\]'
LIGHT_BLUE='\[\e[1;34m\]'
LIGHT_PURPLE='\[\e[1;35m\]'
LIGHT_CYAN='\[\e[1;36m\]'
WHITE='\[\e[1;37m\]'

DEFAULT='\[\e[0m\]'

# PERSONALIZACIÓN DE LA TERMINAL

DATE='$(date +"%Y/%m/%d (%A)")'
TIME='[\t]'
USER='[\h@\u]'
DIR='[\w]'

PS1="\n $LIGHT_PURPLE$DATE $CYAN$TIME $GREEN$USER\n $BROWN$DIR $DEFAULT\n \$ "
```

```
2024/03/22 (viernes) [00:13:44] MV-Servidor-Ubuntu@anibal
~
$ source .bash_profile

2024/03/22 (viernes) [00:14:55] MV-Servidor-Ubuntu@anibal
~
$ cat .bashrc_
```

```
# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
  if [ -f /usr/share/bash-completion/bash_completion ]; then
    . /usr/share/bash-completion/bash_completion
  elif [ -f /etc/bash_completion ]; then
    . /etc/bash_completion
  fi
fi

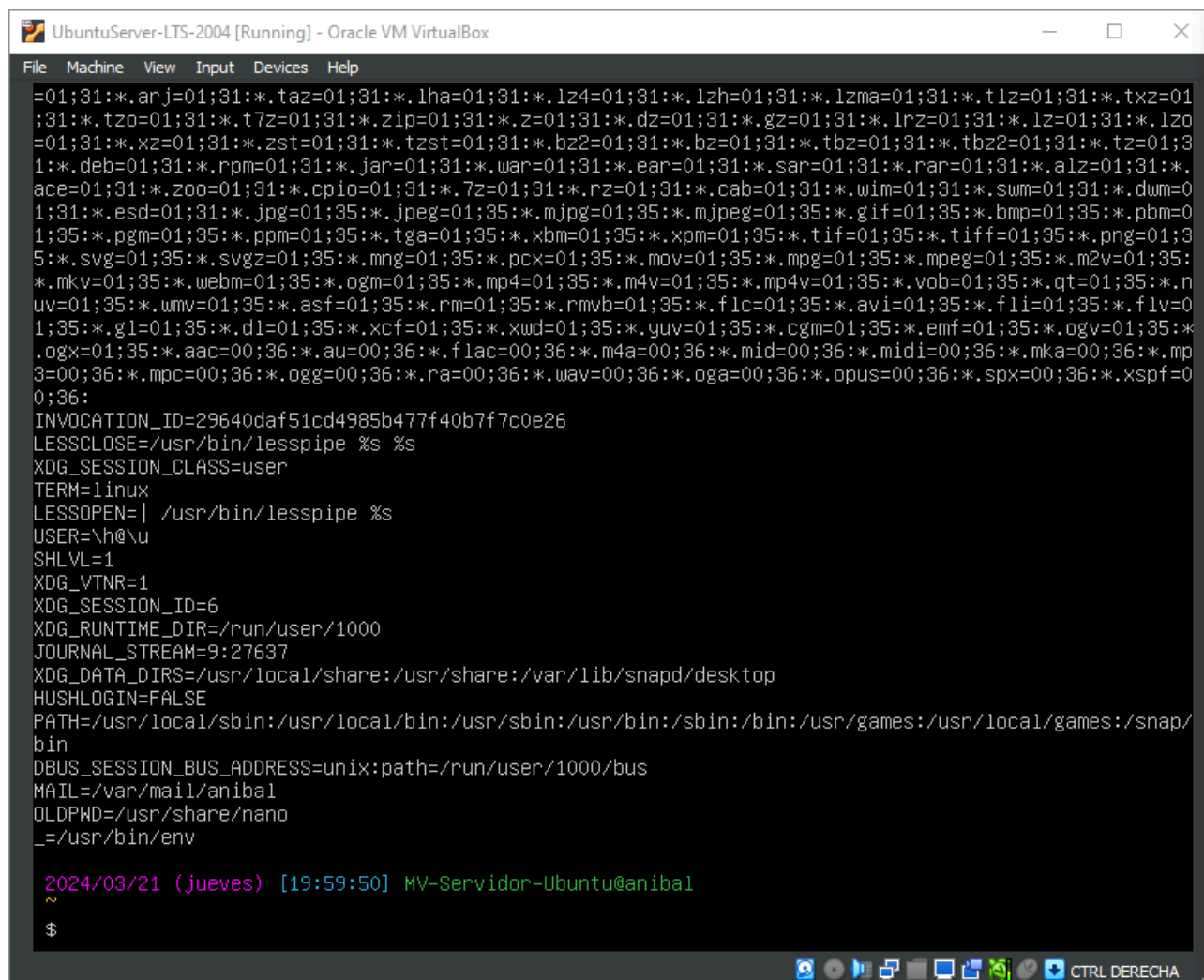
COMPANIERO=RICARDO

2024/03/22 (viernes) [00:15:31] MV-Servidor-Ubuntu@anibal
```

Compáralo con la última captura del ejercicio 5

Ejercicio 9:

```
2024/03/21 (jueves) [19:59:10] MV-Servidor-Ubuntu@anibal
~
$ env_
```



```
File Machine View Input Devices Help
=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=01;31:*.lzh=01;31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01;31:*.t7z=01;31:*.zip=01;31:*.z=01;31:*.dz=01;31:*.gz=01;31:*.lrz=01;31:*.lz=01;31:*.lzo=01;31:*.xz=01;31:*.zst=01;31:*.tzst=01;31:*.bz2=01;31:*.bz=01;31:*.tbz=01;31:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31:*.jar=01;31:*.war=01;31:*.ear=01;31:*.sar=01;31:*.rar=01;31:*.alz=01;31:*.ace=01;31:*.zoo=01;31:*.cpio=01;31:*.7z=01;31:*.rz=01;31:*.cab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.jpg=01;35:*.jpeg=01;35:*.mjpg=01;35:*.mjpeg=01;35:*.gif=01;35:*.bmp=01;35:*.pbm=01;35:*.pgm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;35:*.mng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=01;35:*.ogm=01;35:*.mp4=01;35:*.m4v=01;35:*.mp4v=01;35:*.vob=01;35:*.qt=01;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=01;35:*.fli=01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.yuv=01;35:*.cgm=01;35:*.emf=01;35:*.ogv=01;35:*.ogx=01;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.mka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;36:*.wav=00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;36:
INVOCATION_ID=29640daf51cd4985b477f40b7f7c0e26
LESSCLOSE=/usr/bin/lesspipe %s %s
XDG_SESSION_CLASS=user
TERM=linux
LESSOPEN=| /usr/bin/lesspipe %s
USER=\h\u
SHLVL=1
XDG_VTNR=1
XDG_SESSION_ID=6
XDG_RUNTIME_DIR=/run/user/1000
JOURNAL_STREAM=9:27637
XDG_DATA_DIRS=/usr/local/share:/usr/share:/var/lib/flatpak/desktop
HUSHLOGIN=FALSE
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
MAIL=/var/mail/anibal
OLDPWD=/usr/share/nano
_=/usr/bin/env

2024/03/21 (jueves) [19:59:50] MV-Servidor-Ubuntu@anibal
~
$
```

Ejercicio 10:

Un porrón de información. Tiene pinta de que son valores de configuración del usuario actual (hay variables como MAIL, USER, PATH, HOME, etc).

```
2024/03/23 (sábado) [20:37:31] MV-Servidor-Ubuntu@anibal
~
$ EDAD=26

2024/03/23 (sábado) [20:37:40] MV-Servidor-Ubuntu@anibal
~
$ echo "$EDAD"
26

2024/03/23 (sábado) [20:37:56] MV-Servidor-Ubuntu@anibal
~
$ echo '$EDAD'
$EDAD
```

Ejercicios 11 y 12:

```
2024/03/24 (domingo) [02:52:18] MV-Servidor-Ubuntu@anibal
~
$ expr 7 \* 8
56

2024/03/24 (domingo) [02:52:27] MV-Servidor-Ubuntu@anibal
~
$ expr 14 \* 250
3500

2024/03/24 (domingo) [02:52:35] MV-Servidor-Ubuntu@anibal
~
$ expr 167777 \* 100000000000000
16777700000000000000

2024/03/24 (domingo) [02:53:54] MV-Servidor-Ubuntu@anibal
~
$ expr 25 + 17
42
```

```
2024/03/24 (domingo) [15:07:33] MV-Servidor-Ubuntu@anibal
~
$ expr --help | less
```

```
2024/03/24 (domingo) [15:10:00] MV-Servidor-Ubuntu@anibal
~
$ expr \( 25 + 2 \) \* 7
189
```

Al leer la ayuda del comando te das cuenta de que, para tratar el interior de los paréntesis como una expresión matemática, tienes que escribirlos de forma explícita para que no sean tratados como caracteres sino como operandos.

Ejercicio 13:

```
2024/03/24 (domingo) [15:39:37] MV-Servidor-Ubuntu@anibal
~
$ echo $EDAD
26

2024/03/24 (domingo) [15:39:43] MV-Servidor-Ubuntu@anibal
~
$ EDAD=`expr $EDAD \* 3`

2024/03/24 (domingo) [15:39:49] MV-Servidor-Ubuntu@anibal
~
$ echo $EDAD
78
```

Ejercicio 14

```
2024/03/24 (domingo) [16:18:01] MV-Servidor-Ubuntu@anibal
~
$ la
.bash_history  .bashrc      compañero.txt  .local      .st
.bash_logout   .cache       .config       .profile    TEL
.bash_profile  .compañero.txt COPIAS        .ssh        tr

2024/03/24 (domingo) [16:18:03] MV-Servidor-Ubuntu@anibal
~
$ la *.txt
compañero.txt

2024/03/24 (domingo) [16:18:11] MV-Servidor-Ubuntu@anibal
~
$ ls *.txt && ls .*.txt
compañero.txt
.compañero.txt

2024/03/24 (domingo) [16:19:15] MV-Servidor-Ubuntu@anibal
~
$ FIRCHEROSTXT=`ls *.txt && ls .*.txt`

2024/03/24 (domingo) [16:20:11] MV-Servidor-Ubuntu@anibal
~
$ echo $FIRCHEROSTXT
compañero.txt .compañero.txt
```

Ejercicio 15:

Variables de entorno

```
2024/03/24 (domingo) [16:44:36] MV-Servidor-Ubuntu@anibal
~
$ env >> variablesentorno
```

Todas las variables (locales incluidas)

```
2024/03/24 (domingo) [16:47:29] MV-Servidor-Ubuntu@anibal
~
$ declare -p >> variables_
```