

1) Comandos linux

192.168.104.22

```
1 cd /home/operativos
2 mkdir repositories
3 ls
4 ls -al
5 vim bashrc
6 vim list.sh
7 export GIT_TOKEN="ABC123"
8 echo $GIT_TOKEN
9 vim list.sh
10 ld
11 rm list.sh
12 ls -al
13 man chmod
14 vim list.sh
15 echo $GIT_TOKEN
16 ls -al
17 sh list.sh
18 man sh
19 ls
20 chmod 100 list.sh
21 ls -l
22 sh .list.sh
23 sh list.sh
24 chmod 500 list.sh
25 sh list.sh
26 cp list.sh
27 cp list.sh /tmp/list.sh
28 exit
29 history
30 su python
31 exit
32 su python
33 exit
34 cd ~/
35 whoami
36 pwd
37 mkdir -p {directorio1,directorio2,directorio3}
38 ls
39 vi list1
40 yum install nano -y
41 sudo yum install nano -y
42 yum install nano -y
43 exit
44 yum install nano -y
45 exit
46 history
47 yum install nano -y
48 exit
49 history
50 yum install nano -y
51 sudo yum install nano -y
52 ls
```

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```
51 sudo yum install nano -y
52 ls
53 cd ~/
54 ls
55 nano mylist2
56 touch .list3
57 nano mylist2
58 touch .list3
59 ls
60 mv .list3 .mylist3
61 ls -a
62 mv {list1,mylist2,mylist3} directorio1/
63 mv {list1,mylist2,.mylist3} directorio1/
64 ls
65 cd directorio1
66 cd directorio1
67 ls -a
68 vi list1
69 vi .mylist3
70 vi .mylist3
71 nano .mylist3
72 nano mylist2
73 nano mylist3
74 ls list*
75 ls *list
76 ls ??list?
77 ls -a
78 ls ~/
79 cp .mylist3 mylist4
80 ls -a
81 rm .mylist3
82 ls -a
83 rm -rf ../directorio3
84 ls ~/
85 cd ../directorio2
86 wget
87 wget http://www.gutenberg.org/cache/epub/19033/pg19033.txt
88 man wget
89 wgethttp://www.gutenberg.org/cache/epub/19033/pg19033.txt
90 wget -t inf http://www.gutenberg.org/cache/epub/19033/pg19033.txt
91 sudo wget http://www.gutenberg.org/cache/epub/19033/pg19033.txt
92 ls -a
93 sudo yum install wget -y
94 wget http://www.gutenberg.org/cache/epub/19033/pg19033.txt
95 ls -a
96 cat pg19033.txt
97 less pg19033.txt
98 head pg19033.txt
99 tail pg19033.txt
100 grep -in Alice pg19033.txt
101 cat > mylist4
102 cat >> mylist4
```

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2) Investigacion:

A.

Directorios sistema:

/bin: Programas relacionados con el sistema.

Directorios del /usr:

/usr/bin: Contiene la mayoría de los comandos y programas de utilidad.

Directorios de /var:

/var/tmp : Contiene archivos temporales cuyo contenido debe mantenerse entre reinicios del sistema.

Directorios y archivos de /proc:

/proc/devices : Contiene un listado de los controladores de dispositivos configurados para el kernel linux que se encuentran en uso actualmente.

B)

Printenv: Muestra el valor de todas las variables de ambiente; si se indica un nombre de variable, muestra el valor de esa variable.

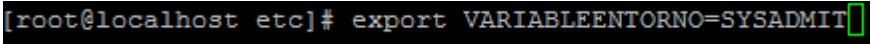
C) creacion de variables de mambiente (permanentes)

Para crear una variable de entorno, utilizaremos el comando export:

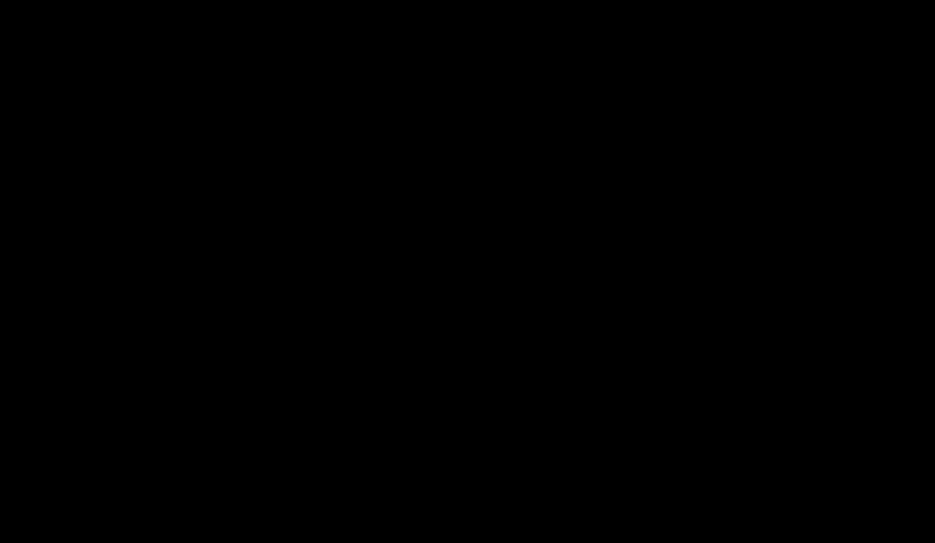
```
[root@LINUX1 ~]# export VARIABLEENTORNO=SYSADMIT
```

Para volverla permanente:

Tendremos que configurar el export que establece la variable de entorno al inicio, editando alguno de los scripts de inicio que se ejecutan de forma predeterminada, por ejemplo /etc/enviroment

1) 

2)



The screenshot shows a terminal window with a black background. At the top left, there is a white box containing the IP address "192.168.104.22". Below this, the command "VARIABLEENTORNO=SYSADMIT" is entered at the prompt. The command is highlighted in green. The terminal output shows a series of blue "v" characters on the left side, indicating a vertical scroll or a series of new lines. At the bottom of the terminal, the text "environment" 1L, 25C is visible.

```
192.168.104.22
VARIABLEENTORNO=SYSADMIT
"environment" 1L, 25C
```

Ejecucion

```
[root@localhost etc]# ls -lF /etc/environment
-rw-r--r--. 1 root root 25 feb 22 08:10 /etc/environment
[root@localhost etc]#
```

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D) Comando configure

```
192.168.104.22 192.168.104.22
checking ABIFLAGS... m
checking SOABI... cpython-34m
checking LDVERSION... $(VERSION)$ (ABIFLAGS)
checking whether right shift extends the sign bit... yes
checking for getc_unlocked() and friends... yes
checking how to link readline libs... none
checking for rl_callback_handler_install in -lreadline... no
checking for rl_pre_input_hook in -lreadline... no
checking for rl_completion_display_matches_hook in -lreadline... no
checking for rl_completion_matches in -lreadline... no
checking for broken nice()... no
checking for broken poll()... no
checking for struct tm.tm_zone... (cached) yes
checking for working tzset()... yes
checking for tv_nsec in struct stat... yes
checking for tv_nsec2 in struct stat... no
checking curses.h usability... no
checking curses.h presence... no
checking for curses.h... no
checking ncurses.h usability... no
checking ncurses.h presence... no
checking for ncurses.h... no
checking for term.h... no
checking whether mvwdelch is an expression... no
checking whether WINDOW has _flags... no
checking for is_term_resized... no
checking for resize_term... no
checking for resizeterm... no
configure: checking for device files
checking for /dev/ptmx... yes
checking for /dev/ptc... no
checking for %lld and %llu printf() format support... yes
checking for %zd printf() format support... yes
checking for socklen_t... yes
checking for broken mbstowcs... no
checking for --with-computed-gotos... no value specified
checking whether gcc -pthread supports computed gotos... yes
checking for build directories... done
checking for -O2... yes
checking for glibc _FORTIFY_SOURCE/memmove bug... no
checking for gcc ipa-pure-const bug... no
checking for ensurepip... upgrade
configure: creating ./config.status
config.status: creating Makefile.pre
config.status: creating Modules/Setup.config
config.status: creating Misc/python.pc
config.status: creating Misc/python-config.sh
config.status: creating Modules/ld_so_aix
config.status: creating pyconfig.h
creating Modules/Setup
creating Modules/Setup.local
creating Makefile
[root@localhost Python-3.4.4]#
```

Comando make:

```
192.168.104.22 192.168.104.22
[root@localhost Python-3.4.4]# ./make
-bash: ./make: No existe el fichero o el directorio
[root@localhost Python-3.4.4]# make
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Modules/python.o ./Modules/python.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/acceler.o Parser/acceler.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/grammar1.o Parser/grammar1.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/listnode.o Parser/listnode.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/node.o Parser/node.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/parsetok.o Parser/parsetok.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/bitset.o Parser/bitset.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/metagrammar.o Parser/metagrammar.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/firstsets.o Parser/firstsets.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/grammar.o Parser/grammar.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/pgen.o Parser/pgen.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/myreadline.o Parser/myreadline.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/parsetok.o Parser/parsetok.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Parser/tokenizer.o Parser/tokenizer.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/abstract.o Objects/abstract.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/accu.o Objects/accu.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/boolobject.o Objects/boolobject.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/bytes_methods.o Objects/bytes_methods.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/bytearrayobject.o Objects/bytearrayobject.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/bytesobject.o Objects/bytesobject.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/cellobject.o Objects/cellobject.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/classobject.o Objects/classobject.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/codeobject.o Objects/codeobject.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/complexobject.o Objects/complexobject.c
gcc -pthread -c -Wno-unused-result -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes -Werror=declaration-after-statement -I. -IInclude -I./Include -DPy_BUILD_CORE -o Objects/descrobject.o Objects/descrobject.c
```

Comando make install:

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```
root@localhost Python-3.4.4# make install
if test "no-framework" = "no-framework" ; then \
    /usr/bin/install -c python /usr/local/bin/python3.4m; \
else \
    /usr/bin/install -c -s Mac/pythonw /usr/local/bin/python3.4m; \
fi
if test "3.4" != "3.4m"; then \
    if test -f /usr/local/bin/python3.4 -o -h /usr/local/bin/python3.4; \
    then rm -f /usr/local/bin/python3.4; \
    fi; \
    (cd /usr/local/bin; ln python3.4m python3.4); \
fi
if test -f libpython3.4m.a && test "no-framework" = "no-framework" ; then \
    if test -n "" ; then \
        /usr/bin/install -c -m 555 /usr/local/bin; \
    else \
        /usr/bin/install -c -m 555 libpython3.4m.a /usr/local/lib/libpython3.4m.a; \
        if test libpython3.4m.a != libpython3.4m.a; then \
            (cd /usr/local/lib; ln -sf libpython3.4m.a libpython3.4m.a) \
        fi \
    fi; \
    if test -n ""; then \
        /usr/bin/install -c -m 555 /usr/local/lib; \
    fi; \
else true; \
fi
if test "x" != "x" ; then \
    rm -f /usr/local/bin/python3.4-32; \
    lipo \
        -output /usr/local/bin/python3.4-32 \
        /usr/local/bin/python3.4; \
fi
running build
running build_ext
INFO: Can't locate Tcl/Tk libs and/or headers

Python build finished successfully!
The necessary bits to build these optional modules were not found:
bz2      _curses      _curses_panel
dbm      _gdbm         _lzma
sqlite3  _ssl          _tkinter
readline zlib
To find the necessary bits, look in setup.py in detect_modules() for the module's name.

running build_scripts
copying and adjusting /root/Python-3.4.4/Tools/scripts/pydoc3 -> build/scripts-3.4
copying and adjusting /root/Python-3.4.4/Tools/scripts/idle3 -> build/scripts-3.4
copying and adjusting /root/Python-3.4.4/Tools/scripts/2to3 -> build/scripts-3.4
copying and adjusting /root/Python-3.4.4/Tools/scripts/pyvenv -> build/scripts-3.4
changing mode of build/scripts-3.4/pydoc3 from 644 to 755
changing mode of build/scripts-3.4/idle3 from 644 to 755
changing mode of build/scripts-3.4/2to3 from 644 to 755
changing mode of build/scripts-3.4/pyvenv from 644 to 755
```

Ejecucion:

```
root@localhost Python-3.4.4# python3.4
Python 3.4.4 (default, Feb 22 2017, 07:49:54)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-11)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> if
      File "<stdin>", line 1
        if
          ^
SyntaxError: invalid syntax
>>> █
```