Universidad ICESI

Informe Examen 1

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Url Repositorio: https://github.com/dgutierrez1/so-exam1

# <u>Informe</u>

# Solución a las preguntas

PUNTO 3 - 5 retos de https://cmdchallenge.com/

• Reto 1

Imprimir "hello world"

```
[root@localhost ~]# echo "hello world"
hello world
```

• Reto 2

Lista de todos los archivos en el directorio, un archivo por línea

```
[root@localhost ~]# ls -1
anaconda-ks.cfg
Python-2.7.12
Python-2.7.12.tar.xz
```

• Reto 3

Imprimir el directorio actual

```
[root@localhost ~]# pwd
/root
```

Reto 4

Imprimir contenido de un archivo

```
[root@localhost ~] # cat anaconda-ks.cfg
#version=DEVEL
 System authorization information
auth --enableshadow --passalgo=sha512
# Use CDROM installation media
 Use graphical install
 Run the Setup Agent on first boot
 Keyboard layouts
keyboard --vckeymap=us --xlayouts='us'
 System language
lang es_US.UTF-8
# Network information
network --bootproto=dhcp --device=enp0s3 --onboot=off --ipv6=auto --no-activate
network --bootproto=dhcp --device=enp0s8 --onboot=off --ipv6=auto
network --bootproto=dhcp --device=enp0s9 --onboot=off --ipv6=auto
 etwork --hostname=localhost.localdomain
 ootpw --iscrypted $6$pXb4N.x0YyyiwcGI$dHik9eW4bVkfmymot1.HpIJMfSlCZGxpENGI/knzuvBcI9Tz2EILehtftTkmXVpBoPzOgKVIkimh
bongeraNj1
# System services
services --enabled="chronyd"
# System timezone
timezone America/New York --isUtc
user --name=operativos --password=$6$Udi22eMY3s9Ij04A$xtm3jqNGU4EHbp8HAtr5DwFsgho.C.TntEInMRA15ZmFnYKfy0pE.SkYRoAS
UzQUHagPnTybFj5yh2WZA6yo/ --iscrypted --gecos="Operativos"
# System bootloader configuration
 ootloader --append=" crashkernel=auto" --location=mbr --boot-drive=sda
autopart --type=lvm
clearpart --none --initlabel
%packages
@^minimal
@core
chrony
kexec-tools
%addon com_redhat_kdump --enable --reserve-mb='auto'
%end
%anaconda
pwpolicy root --minlen=6 --minquality=50 --notstrict --nochanges --notempty
```

#### Reto 5

Imprimir las ultimas 5 lineas de un archivo

```
[root@localhost ~] # tail -5 anaconda-ks.cfg

%anaconda

pwpolicy root --minlen=6 --minquality=50 --notstrict --nochanges --notempty

pwpolicy user --minlen=6 --minquality=50 --notstrict --nochanges --notempty

pwpolicy luks --minlen=6 --minquality=50 --notstrict --nochanges --notempty

%end
```

<u>PUNTO 4</u> - Hacer script con 2 ips que descargue de un libro de https://www.gutenberg.org/ de ambas ips del directorio /tmp

```
scp operativos@192.168.104.13:/tmp/libro /home/operativos/remotebooks/remotebook-test.txt
scp operativos@192.168.104.4:/tmp/libro-emmanuel /home/operativos/remotebooks/remotebook-emmanuel.txt
```

#### Correr el script

# Archivos copiados después del correr el script

```
[root@localhost remotebooks]# ls
remotebook-emmanuel.txt remotebook-test.txt
```

# tail del libro1 copiado

```
[root@localhost remotebooks]# tail -40 remotebook-emmanuel.txt particular state visit http://pglaf.org
```

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```
http://www.gutenberg.org
```

This Web site includes information about Project Gutenberg-tm, including how to make donations to the Project Gutenberg Literary Archive Foundation, how to help produce our new eBooks, and how to subscribe to our email newsletter to hear about new eBooks. [root@localhost remotebooks]#

#### tail del libro2 copiado

[root@localhost remotebooks]# tail -40 remotebook-test.txt
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[root@localhost remotebooks]#

# Instalar epel-release

```
[root@localhost ~]# yum install epel-release
omplementos cargados:fastestmirror
                                                                                       | 3.6 kB 00:00:00
oase
                                                                                       | 3.4 kB
| 3.4 kB
extras
updates
11006aaf5bld472f-primary.sqlite.bz2: [Errno 12] Timeout on http://mirror.facom.ufms.br/centos/7.3.1611/extras/x86
slow. Less than 1000 bytes/sec transferred the last 30 seconds')
ntentando con otro espejo.
(2/2): extras/7/x86_64/primary_db
                                                                                       | 122 kB 00:00:00
 oading mirror speeds from cached hostfile
* updates: mirror.edatel.net.co
Resolviendo dependencias
 -> Ejecutando prueba de transacción
 --> Paquete epel-release.noarch 0:7-9 debe ser instalado
 -> Resolución de dependencias finalizada
ependencias resueltas
                                                        Versión
                                                                               Repositorio
                                                                                                        Tama
Package
                               Arquitectura
Instalando:
epel-release
                               noarch
                                                                               extras
Resumen de la transacción
Instalar 1 Paquete
Tamaño total de la descarga: 14 k
amaño instalado: 24 k
[s this ok [y/d/N]: y
 ownloading packages:
pel-release-7-9.noarch.rpm
                                                                                       | 14 kB 00:00:00
unning transaction check
ransaction test succeeded
 unning transaction
 Instalando : epel-release-7-9.noarch
Comprobando : epel-release-7-9.noarch
```

# Instalar debootstap, perl y libvirt

```
root@localhost ~]# yum install debootstrap perl libvirt
 omplementos cargados:fastestmirror
epel/x86_64/metalink
                                                                                                         30 kB 00:00:00
epel
                                                                                                      | 4.3 kB 00:00:00
(1/3): epel/x86_64/group_gz
epel/x86_64/updateinfo
                                 FAILED
ttp://ftp.jaist.ac.jp/pub/Linux/Fedora/epel/7/x86_64/repodata/5bb58e777e0e23e3dff42fc07468202db7c631f89ae70f6ce32f
aa782703affa-updateinfo.xml.bz2: [Errno 14] curl#56 - "Recv failure: Connection reset by peer"
Intentando con otro espejo.
(2/3): epel/x86 64/updateinfo
                                                                                                      | 751 kB 00:00:00
(3/3): epel/x86 64/primary db
                                                                                                      | 4.5 MB 00:00:46
 oading mirror speeds from cached hostfile
 * base: mirror.edatel.net.co
 * epel: mirror.globo.com
 * updates: mirror.edatel.net.co
El paquete 4:perl-5.16.3-291.el7.x86_64 ya se encuentra instalado con su versión más reciente
Resolviendo dependencias
 -> Ejecutando prueba de transacción
 --> Paquete debootstrap.noarch 0:1.0.85-1.el7 debe ser instalado
 --> Paquete libvirt.x86_64 0:2.0.0-10.e17_3.5 debe ser instalado
--> Procesando dependencias: libvirt-daemon-driver-storage = 2.0.0-10.e17_3.5 para el paquete: libvirt-2.0.0-10.e17_3.5
3.5.x86 64
 -> Procesando dependencias: libvirt-daemon-driver-secret = 2.0.0-10.el7_3.5 para el paquete: libvirt-2.0.0-10.el7
 -> Procesando dependencias: libvirt-daemon-driver-qemu = 2.0.0-10.el7 3.5 para el paquete: libvirt-2.0.0-10.el7 3
 .x86_64
 -> Procesando dependencias: libvirt-daemon-driver-nwfilter = 2.0.0-10.el7_3.5 para el paquete: libvirt-2.0.0-10.el
 3.5.x86_64
 -> Procesando dependencias: libvirt-daemon-driver-nodedev = 2.0.0-10.el7 3.5 para el paquete: libvirt-2.0.0-10.el7
 3.5.x86 64
 -> Procesando dependencias: libvirt-daemon-driver-network = 2.0.0-10.e17_3.5 para el paquete: libvirt-2.0.0-10.e17
 3.5.x86 64
 -> Procesando dependencias: libvirt-daemon-driver-lxc = 2.0.0-10.el7 3.5 para el paquete: libvirt-2.0.0-10.el7 3.5
 x86_64
 -> Procesando dependencias: libvirt-daemon-driver-interface = 2.0.0-10.el7_3.5 para el paquete: libvirt-2.0.0-10.e
 7_3.5.x86_64
 -> Procesando dependencias: libvirt-daemon-config-nwfilter = 2.0.0-10.el7 3.5 para el paquete: libvirt-2.0.0-10.el
 3.5.x86_64
 >> Procesando dependencias: libvirt-daemon-config-network = 2.0.0-10.el7_3.5 para el paquete: libvirt-2.0.0-10.el7
3.5.x86 64
 -> Procesando dependencias: libvirt-daemon = 2.0.0-10.e17_3.5 para el paquete: libvirt-2.0.0-10.e17_3.5.x86_64
-> Procesando dependencias: libvirt-client = 2.0.0-10.e17_3.5 para el paquete: libvirt-2.0.0-10.e17_3.5.x86_64
 -> Ejecutando prueba de transacción
 --> Paquete libvirt-client.x86_64 0:2.0.0-10.e17_3.5 debe ser instalado
-> Procesando dependencias: nc para el paquete: libvirt-client-2.0.0-10.e17_3.5.x86_64
 -> Procesando dependencias: gnutls-utils para el paquete: libvirt-client-2.0.0-10.e17_3.5.x86_64
```

#### Instalar LXC

```
ot@localhost ~]# yum install lxc lxc-templates
 omplementos cargados:fastestmirror
 oading mirror speeds from cached hostfile
 * epel: mirror.chpc.utah.edu
 * extras: mirror.edatel.net.co
 * updates: mirror.edatel.net.co
Resolviendo dependencias
 -> Ejecutando prueba de transacción
 --> Paquete lxc.x86_64 0:1.0.9-1.el7 debe ser instalado
 -> Procesando dependencias: lua-lxc(x86-64) = 1.0.9-1.el7 para el paquete: lxc-1.0.9-1.el7.x86_64
 -> Processando dependencias: lua-alt-qetopt para el paquete: lxc-1.0.9-1.el7.x86_64
-> Processando dependencias: libseccomp.so.2()(64bit) para el paquete: lxc-1.0.9-1.el7.x86_64
-> Processando dependencias: liblxc.so.1()(64bit) para el paquete: lxc-1.0.9-1.el7.x86_64
 --> Paquete 1xc-templates.x86_64 0:1.0.9-1.el7 debe ser instalado
 -> Ejecutando prueba de transacción
 --> Paquete libseccomp.x86_64 0:2.3.1-2.e17 debe ser instalado
--> Paquete lua-alt-getopt.noarch 0:0.7.0-4.e17 debe ser instalado
--> Paquete lua-lxc.x86_64 0:1.0.9-1.e17 debe ser instalado
 -> Procesando dependencias: lua-filesystem para el paquete: lua-lxc-1.0.9-1.el7.x86_64
 --> Paquete lxc-libs.x86_64 0:1.0.9-1.el7 debe ser instalado -> Ejecutando prueba de transacción
 --> Paquete lua-filesystem.x86_64 0:1.6.2-2.e17 debe ser instalado
-> Resolución de dependencias finalizada
Dependencias resueltas
Package
                                          Arquitectura
                                                                                                                   Repositorio
                                                                                                                                                Tamaño
Instalando:
                                          x86_64
x86_64
                                                                           1.0.9-1.el7
1.0.9-1.el7
                                                                                                                                                138 k
 lxc
                                                                                                                   epel
 lxc-templates
                                                                                                                                                 81 k
                                                                                                                   epel
Instalando para las dependencias:
                                          x86 64
                                                                           2.3.1-2.e17
                                                                                                                                                 56 k
 libseccomp
                                                                                                                   base
 lua-alt-getopt
                                           noarch
                                                                                                                   epel
                                          x86_64
x86_64
x86_64
 lua-filesystem
                                                                           1.6.2-2.e17
                                                                                                                   epel
                                                                                                                                                 28 k
                                                                                                                   epel
 lxc-libs
                                                                           1.0.9-1.el7
                                                                                                                   epel
                                                                                                                                                275 k
Resumen de la transacción
Instalar 2 Paquetes (+5 Paquetes dependientes)
```

#### Iniciar servicio LXC

```
ot@localhost ~]# systemctl status lxc.service
  lxc.service - LXC Container Initialization and Autoboot Code
   Loaded: loaded (/usr/lib/systemd/system/lxc.service; disabled; vendor preset: disabled)
   Active: inactive (dead)
 root@localhost ~] # systemctl start lxc.service
 root@localhost ~] # systemctl status lxc.service
  lxc.service - LXC Container Initialization and Autoboot Code
   Loaded: loaded (/usr/lib/systemd/system/lxc.service; disabled; vendor preset: disabled)
   Active: active (exited) since mié 2017-02-15 14:01:52 EST; 3min 12s ago
  Process: 17473 ExecStart=/usr/libexec/lxc/lxc-autostart-helper start (code=exited, status=0/SUCCESS)
  Process: 17467 ExecStartPre=/usr/libexec/lxc-devsetup (code=exited, status=0/SUCCESS)
 Main PID: 17473 (code=exited, status=0/SUCCESS)
feb 15 14:01:21 localhost.localdomain systemd[1]: Starting LXC Container Initialization and Autoboot Code...
feb 15 14:01:21 localhost.localdomain lxc-devsetup[17467]: Creating /dev/.lxc
feb 15 14:01:21 localhost.localdomain lxc-devsetup[17467]: /dev is devtmpfs
feb 15 14:01:21 localhost.localdomain lxc-devsetup[17467]: Creating /dev/.lxc/user
feb 15 14:01:52 localhost.localdomain lxc-autostart-helper[17473]: Starting LXC autoboot containers: [ OK ]
feb 15 14:01:52 localhost.localdomain systemd[1]: Started LXC Container Initialization and Autoboot Code.
[root@localhost ~]# systemctl start libvirtd

[root@localhost ~]# systemctl status lxc.service

• lxc.service - LXC Container Initialization and Autoboot Code
   Loaded: loaded (/usr/lib/systemd/system/lxc.service; disabled; vendor preset: disabled) Active: active (exited) since mié 2017-02-15 14:01:52 EST; 4min 56s ago
  Process: 17473 ExecStart=/usr/libexec/lxc/lxc-autostart-helper start (code=exited, status=0/SUCCESS)
  Process: 17467 ExecStartPre=/usr/libexec/lxc/lxc-devsetup (code=exited, status=0/SUCCESS)
 Main PID: 17473 (code=exited, status=0/SUCCESS)
   CGroup: /system.slice/lxc.service
feb 15 14:01:21 localhost.localdomain systemd[1]: Starting LXC Container Initialization and Autoboot Code...
feb 15 14:01:21 localhost.localdomain lxc-devsetup[17467]: Creating /dev/.lxc
feb 15 14:01:21 localhost.localdomain lxc-devsetup[17467]: /dev is devtmpfs
feb 15 14:01:21 localhost.localdomain lxc-devsetup[17467]: Creating /dev/.lxc/user
feb 15 14:01:52 localhost.localdomain lxc-autostart-helper[17473]: Starting LXC autoboot containers: [ OK ]
feb 15 14:01:52 localhost.localdomain systemd[1]: Started LXC Container Initialization and Autoboot Code.
```

# Configuracion de LXC

```
[root@localhost ~] # lxc-checkconfig
Kernel configuration not found at /proc/config.gz; searching...
Kernel configuration found at /boot/config-3.10.0-514.el7.x86_64
 -- Namespaces --
Namespaces: enabled
Utsname namespace: enabled
Ipc namespace: enabled
Pid namespace: enabled
User namespace: enabled
Network namespace: enabled
Multiple /dev/pts instances: enabled
 -- Control groups ---
Cgroup: enabled
Cgroup clone children flag: enabled
Cgroup device: enabled
Cgroup sched: enabled
Cgroup cpu account: enabled
Cgroup memory controller: enabled
Cgroup cpuset: enabled
 -- Misc ---
Veth pair device: enabled
Macvlan: enabled
Vlan: enabled
Bridges: enabled
Advanced netfilter: enabled
CONFIG_NF_NAT_IPV4: enabled
CONFIG_NF_NAT_IPV6: enabled
CONFIG_IP_NF_TARGET_MASQUERADE: enabled
CONFIG_IP6_NF_TARGET_MASQUERADE: enabled
CONFIG_NETFILTER_XT_TARGET_CHECKSUM: enabled
 -- Checkpoint/Restore ---
checkpoint restore: enabled
CONFIG FHANDLE: enabled
CONFIG EVENTFD: enabled
CONFIG_EPOLL: enabled
CONFIG_UNIX_DIAG: enabled
CONFIG_INET_DIAG: enabled
CONFIG_PACKET_DIAG: enabled
CONFIG NETLINK DIAG: enabled
File capabilities: enabled
Note : Before booting a new kernel, you can check its configuration
usage : CONFIG=/path/to/config /usr/bin/lxc-checkconfig
```

# Lista de templates de LXC

```
root@localhost ~] # ls -alh /usr/share/lxc/templates/
otal 344K
irwxr-xr-x. 2 root root 4.0K feb 15 13:59 .
irwxr-xr-x. 6 root root 106 feb 15 13:59 ...
rwxr-xr-x. 1 root root 11K dic 3 14:09 lxc-alpine
rwxr-xr-x. 1 root root 14K dic 3 14:09 lxc-altlinux
rwxr-xr-x. 1 root root 11K dic 3 14:09 lxc-archlinux
rwxr-xr-x. 1 root root 9.5K dic 3 14:09 lxc-busybox
rwxr-xr-x. 1 root root 29K dic 3 14:09 lxc-centos
rwxr-xr-x. 1 root root 11K dic 3 14:09 lxc-cirros
rwxr-xr-x. 1 root root 18K dic 3 14:09 1xc-debian
-rwxr-xr-x. 1 root root 18K dic 3 14:09 lxc-download
rwxr-xr-x. 1 root root 49K dic 3 14:09 lxc-fedora
rwxr-xr-x. 1 root root 28K dic 3 14:09 lxc-gentoo
rwxr-xr-x. 1 root root 14K dic 3 14:09 lxc-openmandriva
rwxr-xr-x. 1 root root 14K dic 3 14:09 lxc-opensuse
-rwxr-xr-x. 1 root root 35K dic 3 14:09 lxc-oracle
rwxr-xr-x. 1 root root 12K dic 3 14:09 1xc-plamo
rwxr-xr-x. 1 root root 6.7K dic 3 14:09 lxc-sshd
rwxr-xr-x. 1 root root 24K dic 3 14:09 lxc-ubuntu
rwxr-xr-x. 1 root root 12K dic 3 14:09 lxc-ubuntu-cloud
```

#### Crear el contenedor

```
root@localhost ~]# lxc-create -n debian-container-gutierrez -t debian
debootstrap is /usr/sbin/debootstrap
Checking cache download in /var/cache/lxc/debian/rootfs-jessie-amd64 ...
gpg: directorio `/root/.gnupg' creado
gpg: creado un nuevo fichero de configuración `/root/.gnupg/gpg.conf'
gpg: AVISO: las opciones en `/root/.gnupg/gpg.conf' no están aún activas en esta ejecución
gpg: anillo `/root/.gnupg/secring.gpg' creado
gpg: anillo `/var/cache/lxc/debian/archive-key.gpg' creado
gpg: /root/.gnupg/trustdb.gpg: se ha creado base de datos de confianza
gpg: clave 2B90D010: clave pública "Debian Archive Automatic Signing Key (8/jessie) <ftpmaster@debian.org>" importa
gpg: Cantidad total procesada: 1
                       importadas: 1
gpg:
                                           (RSA: 1)
gpg: no se encuentran claves absolutamente fiables
 ownloading debian minimal ...
I: Retrieving Release
I: Retrieving Release.gpg
I: Checking Release signature
 : Valid Release signature (key id 126C0D24BD8A2942CC7DF8AC7638D0442B90D010)
 : Retrieving Packages
 : Validating Packages
 : Found packages in base already in required: init
I: Resolving dependencies of required packages...
I: Resolving dependencies of base packages...
I: Found additional required dependencies: acl adduser dmsetup insserv libaudit-common libaudit1 libbz2-1.0 libcap2
libcap2-bin libcryptsetup4 libdb5.3 libdebconfclient0 libdevmapper1.02.1 libgcrypt20 libgpg-error0 libkmod2 libneursesw5 libprocps3 libsemanage-common libsemanage1 libslang2 libsystemd0 libudev1 libustr-1.0-1 procps systemd syste
nd-sysv udev
c: Found additional base dependencies: debian-archive-keyring gnupg gpgv init-system-helpers iproute2 isc-dhcp-comm
on libapt-pkg4.12 libbsd0 libdns-export100 libedit2 libgssapi-krb5-2 libirs-export91 libisc-export95 libisccfg-expo
 t90 libk5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 libreadline6 libssl1.0.0 libstdc++6 libusb-0.1-4 libwrap0
openssh-client openssh-sftp-server readline-common
I: Checking component main on http://httpredir.debian.org/debian...
I: Retrieving acl 2.2.52-2
I: Validating acl 2.2.52-2
I: Retrieving libacl1 2.2.52-2
I: Validating libacl1 2.2.52-2
I: Retrieving adduser 3.113+nmu3
 : Validating adduser 3.113+nmu3
 : Retrieving apt 1.0.9.8.4
 : Validating apt 1.0.9.8.4
: Retrieving libapt-pkg4.12 1.0.9.8.4
I: Validating libapt-pkg4.12 1.0.9.8.4
I: Retrieving libattr1 1:2.4.47-2
I: Validating libattr1 1:2.4.47-2
: Retrieving libaudit-common 1:2.4-1
 : Validating libaudit-common 1:2.4-1
 : Retrieving libaudit1 1:2.4-1+b1
 : Validating libaudit1 1:2.4-1+b1
I: Retrieving base-files 8+deb8u7
```

#### Consola dentro del contenedor - atach al contenedor

```
[root@localhost ~] # lxc-console -n debian-container-gutierrez

Connected to tty 1

Type <Ctrl+a q> to exit the console, <Ctrl+a Ctrl+a> to enter Ctrl+a itself

Debian GNU/Linux 8 debian-container-gutierrez tty1

debian-container-gutierrez login: root

Password:
Linux debian-container-gutierrez 3.10.0-514.el7.x86_64 #1 SMP Tue Nov 22 16:42:41 UTC 2016 x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

root@debian-container-gutierrez:~# []
```

# ifconfig dentro del contenedor

```
root@localhost ~]# lxc-console -n debian-container-gutierrez
Connected to tty 1
Type <Ctrl+a q> to exit the console, <Ctrl+a Ctrl+a> to enter Ctrl+a itself
Debian GNU/Linux 8 debian-container-gutierrez ttyl
debian-container-gutierrez login: root
Password:
inux debian-container-gutierrez 3.10.0-514.el7.x86_64 #1 SMP Tue Nov 22 16:42:41 UTC 2016 x86_64
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the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
coot@debian-container-gutierrez:~# cat /etc/issue
Debian GNU/Linux 8 \n \l
root@debian-container-gutierrez:~# ifconfig
         Link encap:Ethernet HWaddr 00:16:3e:e5:de:bb
         inet addr:192.168.122.226 Bcast:192.168.122.255 Mask:255.255.255.0
         inet6 addr: fe80::216:3eff:fee5:debb/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:171 errors:0 dropped:0 overruns:0 frame:0
         TX packets:13 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:9694 (9.4 KiB) TX bytes:2058 (2.0 KiB)
         Link encap:Local Loopback
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         inet addr:127.0.0.1 Mask:255.0.0.0
         inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:65536 Metric:1
         RX packets:0 errors:0 dropped:0 overruns:0 frame:0
         TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1
         RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
coot@debian-container-gutierrez:~#
```

#### Referencias

- <a href="http://stackoverflow.com/questions/3886295/how-do-i-list-one-filename-per-output-line-in-linux">http://stackoverflow.com/questions/3886295/how-do-i-list-one-filename-per-output-line-in-linux</a>
- https://kb.iu.edu/d/acrj
- <a href="http://stackoverflow.com/questions/14300794/how-do-i-download-a-file-from-the-internet-to-my-linux-server-with-bash">http://stackoverflow.com/questions/14300794/how-do-i-download-a-file-from-the-internet-to-my-linux-server-with-bash</a>
- http://www.tecmint.com/install-create-run-lxc-linux-containers-on-centos/