

Actividad A2 – GONZALO OSCO HERNANDEZ

Realizar la creación y la instalación de una VM a partir de una imagen pre construido de alguna distribución de Linux.

Creación de una maquina virtual a partir de una imagen qcow2

Copiamos y renombramos la imagen

```
gonzalohk@debian: ~  
File Edit View Search Terminal Help  
root@debian:/home/gonzalohk/Downloads# ls  
'debian-10-nocloud-amd64-20200511-260 (original).qcow2'  
debian-development.qcow2  
debian-maint.qcow2  
debian-webserver.qcow2  
w2k3sp2_3959_usa_x64fre_spcd.iso  
root@debian:/home/gonzalohk/Downloads#
```

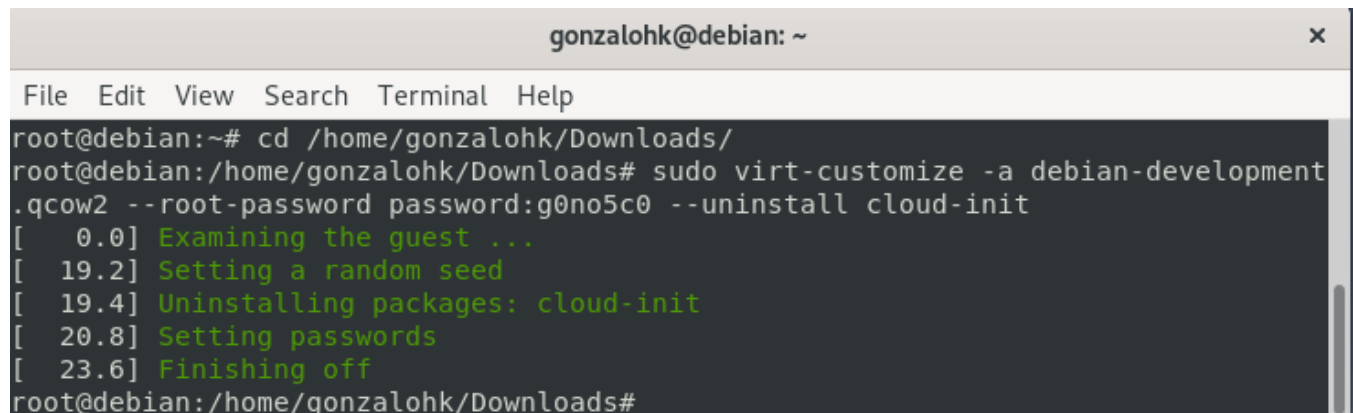
Con los parámetros necesarios indicamos el uso de memoria, CPU, además de la ubicación de la imagen.

```
root@debian:/home/gonzalohk/Downloads# virt-install --name debian-development \  
> --ram 512 \  
> --vcpus=1 \  
> --disk path=/home/gonzalohk/Downloads/debian-development.qcow2 \  
> --os-variant debian10 \  
> --import \  
> --noautoconsole
```

```
gonzalohk@debian: ~  
File Edit View Search Terminal Help  
root@debian:/home/gonzalohk/Downloads# virt-install --name debian-development \  
> --ram 512 \  
> --vcpus=1 \  
> --disk path=/home/gonzalohk/Downloads/debian-development.qcow2 \  
> --os-variant debian10 \  
> --import \  
> --noautoconsole  
  
Starting install...  
Domain creation completed.
```

Podemos personalizar la imagen creada, pero solo asignaremos contraseña a nuestro usuario root.

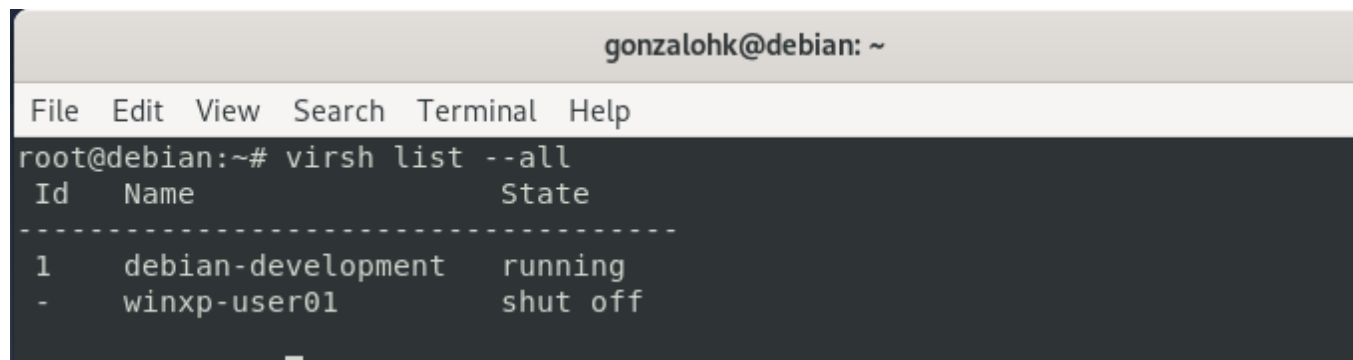
```
root@debian:/home/gonzalohk/Downloads# virt-customize -a debian-development.qcow2  
--root-password password:g0no5c0 --uninstall cloud-init
```



A terminal window titled 'gonzalohk@debian: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the execution of the 'virt-customize' command to customize the 'debian-development' image. The output shows progress steps: Examining the guest, Setting a random seed, Uninstalling packages: cloud-init, Setting passwords, and Finishing off.

```
gonzalohk@debian: ~  
File Edit View Search Terminal Help  
root@debian:~# cd /home/gonzalohk/Downloads/  
root@debian:/home/gonzalohk/Downloads# sudo virt-customize -a debian-development  
.qcow2 --root-password password:g0no5c0 --uninstall cloud-init  
[ 0.0] Examining the guest ...  
[ 19.2] Setting a random seed  
[ 19.4] Uninstalling packages: cloud-init  
[ 20.8] Setting passwords  
[ 23.6] Finishing off  
root@debian:/home/gonzalohk/Downloads#
```

Iniciamos y verificamos que nuestra máquina virtual `debian-development` este corriendo.



A terminal window titled 'gonzalohk@debian: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the execution of the 'virsh list --all' command. The output is a table showing the state of virtual machines.

```
gonzalohk@debian: ~  
File Edit View Search Terminal Help  
root@debian:~# virsh list --all  
Id      Name                                State  
-----  
1       debian-development                 running  
-       winxp-user01                       shut off
```

Ingresamos a la consola de nuestra máquina virtual.

```
root@debian:/home/gonzalohk/Downloads# virt console debian-development
```

Utilizamos las credenciales de root y el password que se asignó anteriormente.

gonzalohk@debian: ~

File Edit View Search Terminal Help

```
Starting Permit User Sessions...
[ OK ] Started Unattended Upgrades Shutdown.
Starting chrony, an NTP client/server...
Starting OpenBSD Secure Shell server...
[ OK ] Started Permit User Sessions.
[ OK ] Started Getty on tty1.
[ OK ] Started Serial Getty on ttyS0.
[ OK ] Reached target Login Prompts.
[ OK ] Started OpenBSD Secure Shell server.
[ OK ] Started chrony, an NTP client/server.
[ OK ] Reached target Multi-User System.
[ OK ] Reached target Graphical Interface.
Starting Update UTMP about System Runlevel Changes...
[ OK ] Started Update UTMP about System Runlevel Changes.
```

Debian GNU/Linux 10 debian ttyS0

debian login: root

Password:

Linux debian 4.19.0-9-amd64 #1 SMP Debian 4.19.118-2 (2020-04-29) 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:~#

Una vez ingresado ya es posible hacer uso de la maquina virtual.

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permitted by applicable law.

root@debian:~# ping google.com

6PING google.com (64.233.190.138) 56(84) bytes of data.

```
64 bytes from ce-in-f138.1e100.net (64.233.190.138): icmp_seq=1 ttl=37 time=63.3 ms
64 bytes from ce-in-f138.1e100.net (64.233.190.138): icmp_seq=2 ttl=37 time=62.2 ms
64 bytes from ce-in-f138.1e100.net (64.233.190.138): icmp_seq=3 ttl=37 time=62.6 ms
64 bytes from ce-in-f138.1e100.net (64.233.190.138): icmp_seq=4 ttl=37 time=63.2 ms
64 bytes from ce-in-f138.1e100.net (64.233.190.138): icmp_seq=5 ttl=37 time=63.7 ms
64 bytes from ce-in-f138.1e100.net (64.233.190.138): icmp_seq=6 ttl=37 time=63.9 ms
64 bytes from ce-in-f138.1e100.net (64.233.190.138): icmp_seq=7 ttl=37 time=62.5 ms
```