

Actividad A1 – GONZALO OSCO HERNANDEZ

Realizar la creación y la instalación de una VM a partir de una imagen ISO de algún sistema operativo.

Instalación

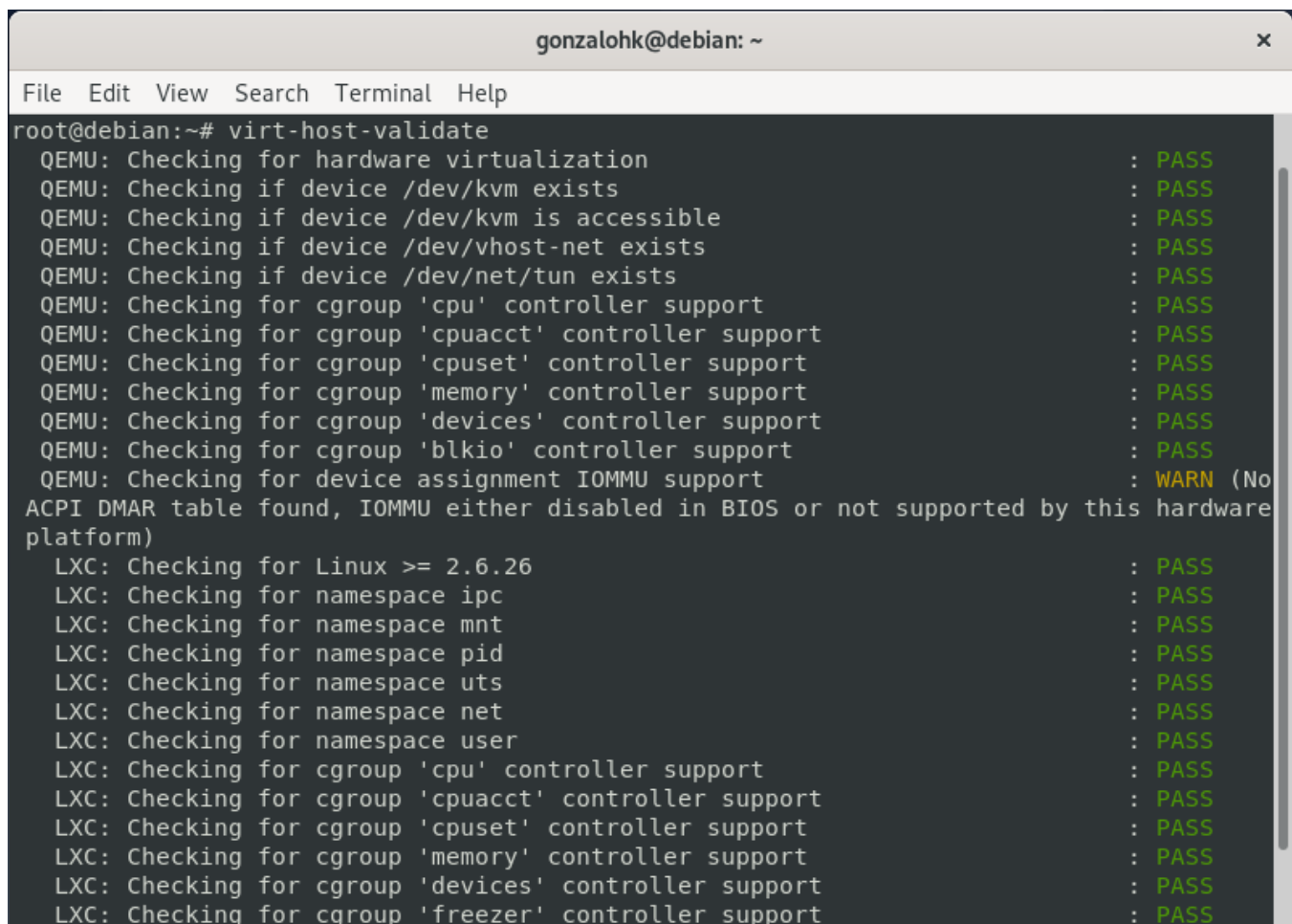
Se deben instalar los siguientes paquetes para el correcto funcionamiento de KVM.

```
root@debian:~# apt install qemu-kvm libvirt-clients libvirt-daemon-system bridge-utils  
libguestfs-tools genisoimage virtinst libosinfo-bin virt-viewer virt-manager
```

Validación

Es importante validar nuestro equipo, para identificar posibles errores en la instalación o configuración.

```
root@debian:~# virt-host-validate
```

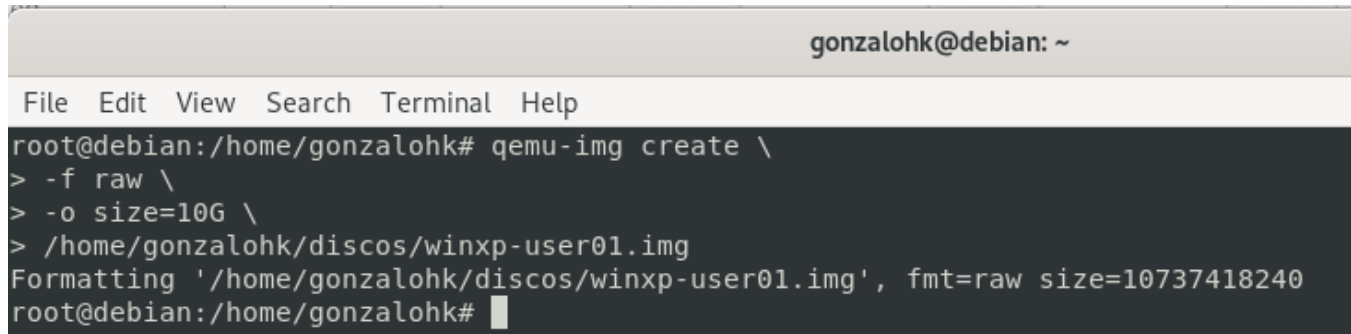


```
gonzalohk@debian: ~  
File Edit View Search Terminal Help  
root@debian:~# virt-host-validate  
QEMU: Checking for hardware virtualization : PASS  
QEMU: Checking if device /dev/kvm exists : PASS  
QEMU: Checking if device /dev/kvm is accessible : PASS  
QEMU: Checking if device /dev/vhost-net exists : PASS  
QEMU: Checking if device /dev/net/tun exists : PASS  
QEMU: Checking for cgroup 'cpu' controller support : PASS  
QEMU: Checking for cgroup 'cpuacct' controller support : PASS  
QEMU: Checking for cgroup 'cpuset' controller support : PASS  
QEMU: Checking for cgroup 'memory' controller support : PASS  
QEMU: Checking for cgroup 'devices' controller support : PASS  
QEMU: Checking for cgroup 'blkio' controller support : PASS  
QEMU: Checking for device assignment IOMMU support : WARN (No  
ACPI DMAR table found, IOMMU either disabled in BIOS or not supported by this hardware  
platform)  
LXC: Checking for Linux >= 2.6.26 : PASS  
LXC: Checking for namespace ipc : PASS  
LXC: Checking for namespace mnt : PASS  
LXC: Checking for namespace pid : PASS  
LXC: Checking for namespace uts : PASS  
LXC: Checking for namespace net : PASS  
LXC: Checking for namespace user : PASS  
LXC: Checking for cgroup 'cpu' controller support : PASS  
LXC: Checking for cgroup 'cpuacct' controller support : PASS  
LXC: Checking for cgroup 'cpuset' controller support : PASS  
LXC: Checking for cgroup 'memory' controller support : PASS  
LXC: Checking for cgroup 'devices' controller support : PASS  
LXC: Checking for cgroup 'freezer' controller support : PASS
```

Creación de una máquina virtual a partir de una imagen ISO – WIN XP

Creación del disco

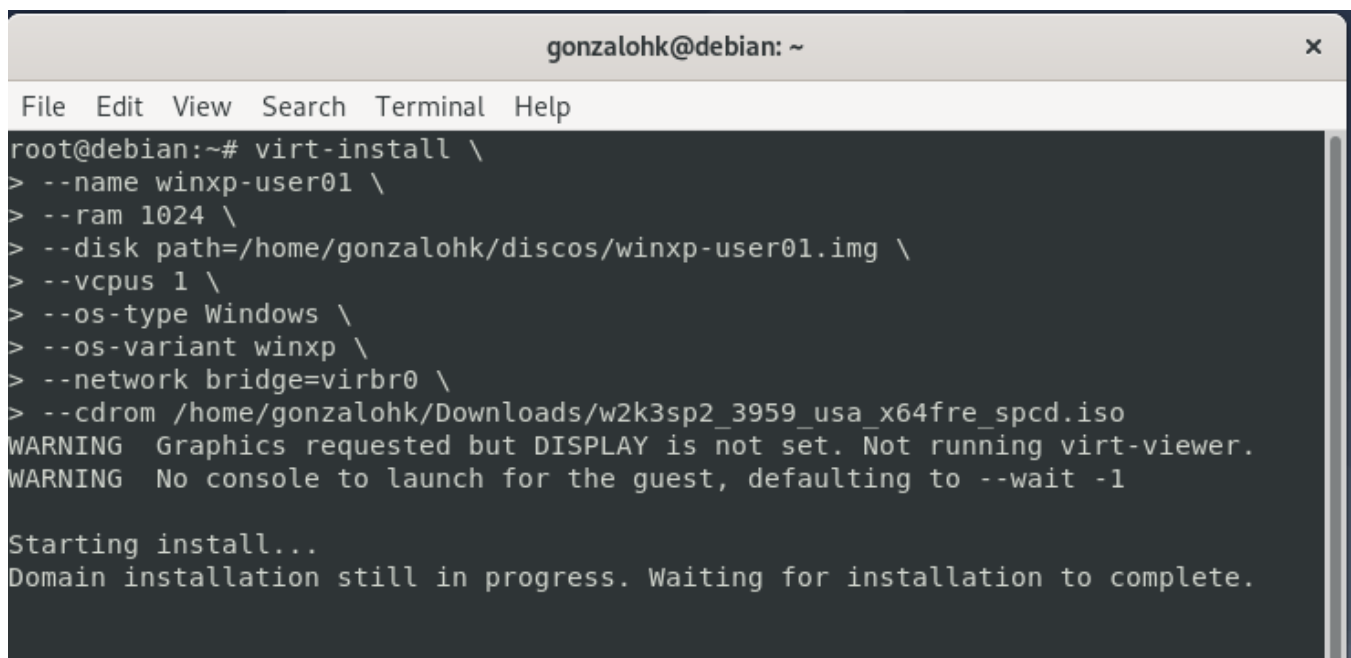
```
root@debian:/home/gonzalohk# qemu-img create \  
> -f raw \  
> -o size=10G \  
> /home/gonzalohk/discos/winxp-user01.img  
Formatting '/home/gonzalohk/discos/winxp-user01.img', fmt=raw size=10737418240
```



```
gonzalohk@debian: ~  
File Edit View Search Terminal Help  
root@debian:/home/gonzalohk# qemu-img create \  
> -f raw \  
> -o size=10G \  
> /home/gonzalohk/discos/winxp-user01.img  
Formatting '/home/gonzalohk/discos/winxp-user01.img', fmt=raw size=10737418240  
root@debian:/home/gonzalohk#
```

Creación de la máquina virtual

```
root@debian:/home/gonzalohk# qemu-img create \  
> -f raw \  
> -o size=10G \  
> /home/gonzalohk/discos/winxp-user01.img  
Formatting '/home/gonzalohk/discos/winxp-user01.img', fmt=raw size=10737418240
```



```
gonzalohk@debian: ~  
File Edit View Search Terminal Help  
root@debian:~# virt-install \  
> --name winxp-user01 \  
> --ram 1024 \  
> --disk path=/home/gonzalohk/discos/winxp-user01.img \  
> --vcpus 1 \  
> --os-type Windows \  
> --os-variant winxp \  
> --network bridge=virbr0 \  
> --cdrom /home/gonzalohk/Downloads/w2k3sp2_3959_usa_x64fre_spcd.iso  
WARNING Graphics requested but DISPLAY is not set. Not running virt-viewer.  
WARNING No console to launch for the guest, defaulting to --wait -1  
  
Starting install...  
Domain installation still in progress. Waiting for installation to complete.
```