Actividad A1 – GONZALO OSCO HERNANDEZ

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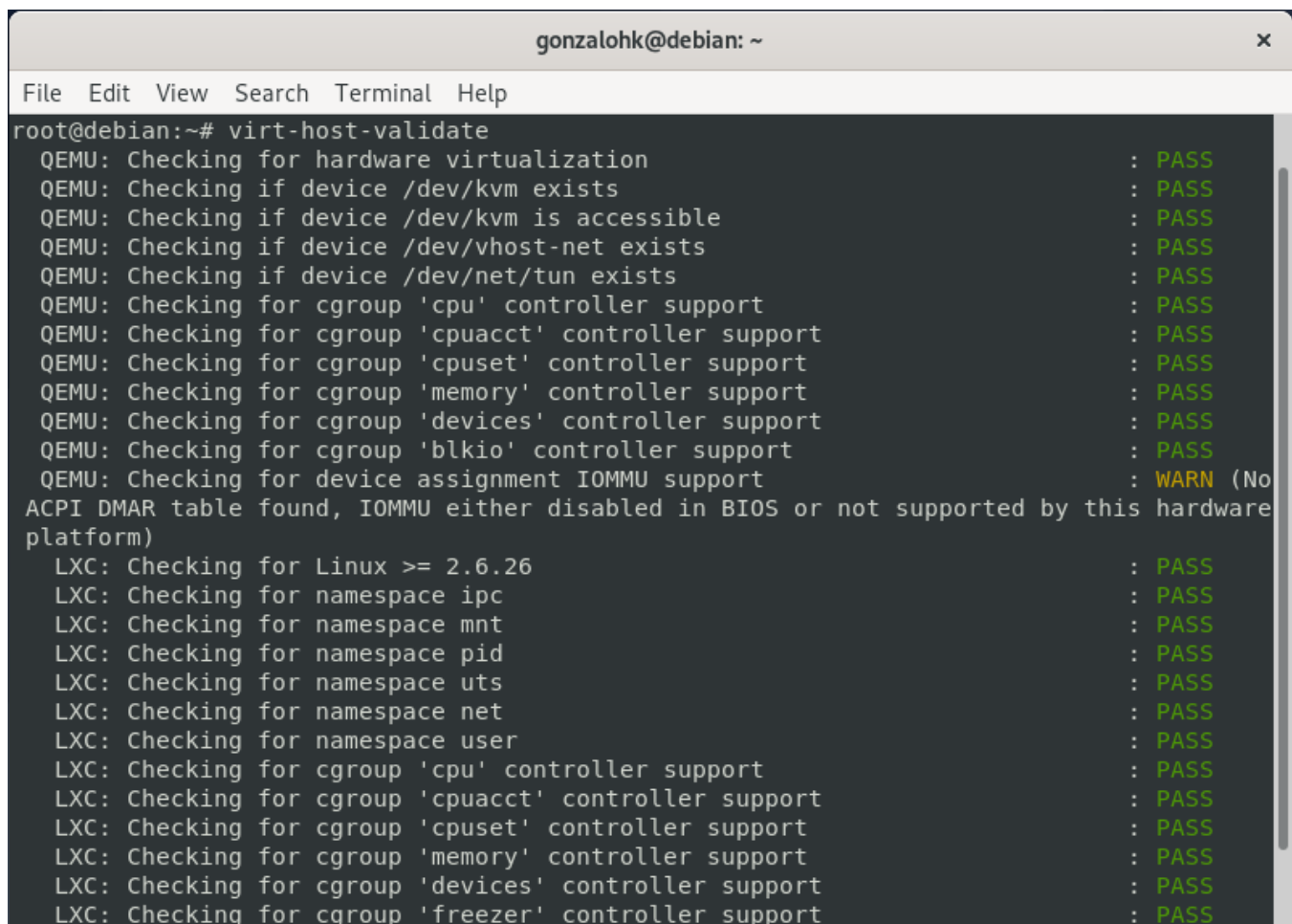
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Instalación

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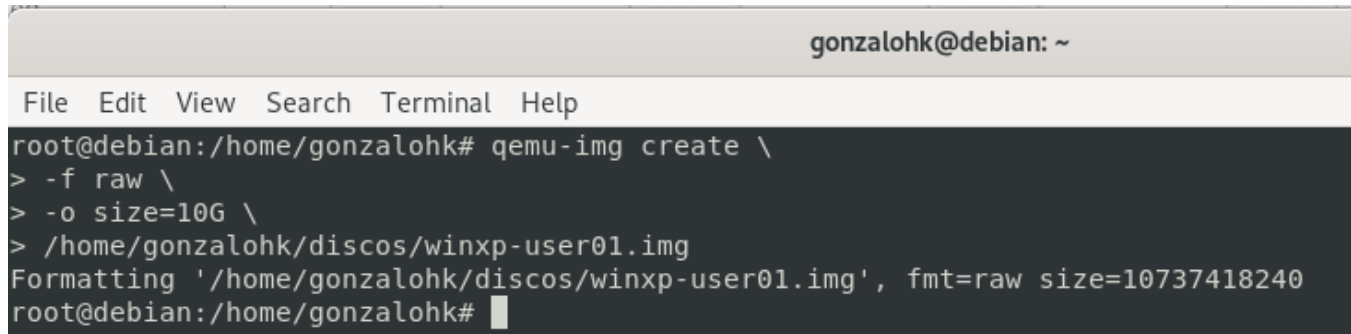
```
root@debian:~# virt-host-validate
```

```
                                    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
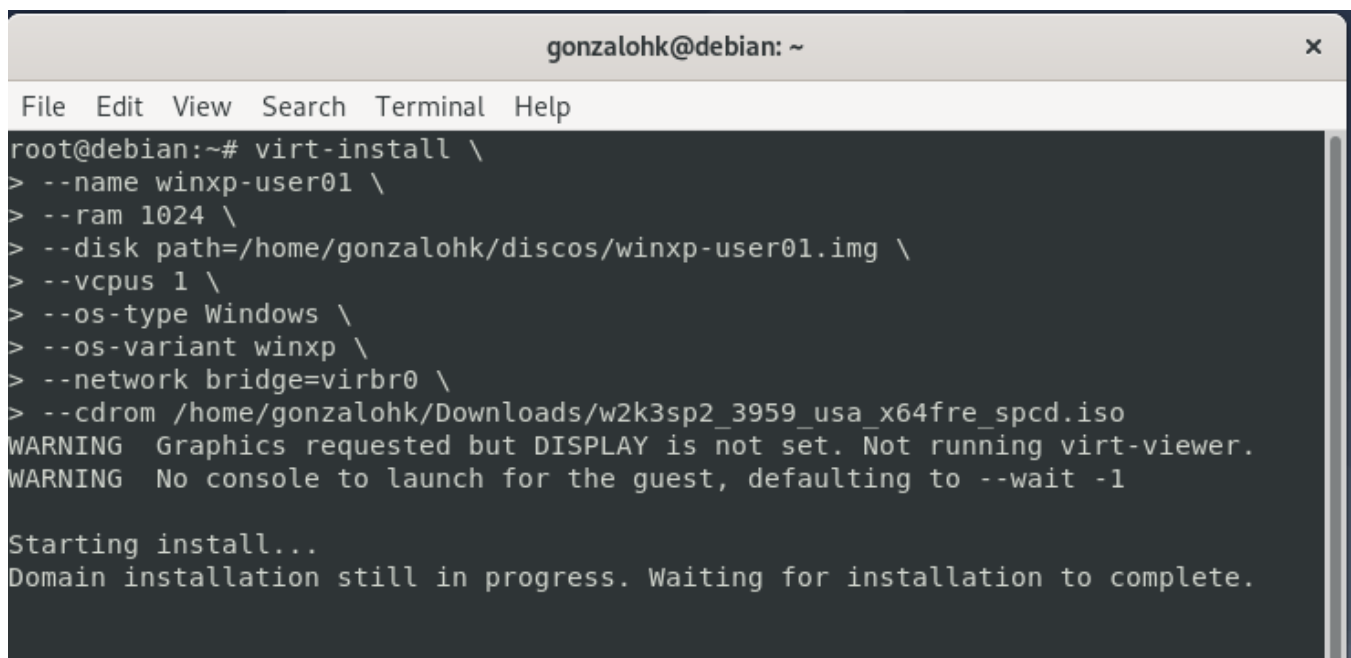
Creación del disco

```
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
```


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
```