Migrar de OVA a Proxmox

Copiaremos el archivo OVA a una carpeta local o NFS en Proxmox.

Tenemos en primer lugar que descomprimir el archivo OVA

```
tar xvf debian-minimal-12.1.0.ova
```

En algunos casos, tendremos que instalar el tar si no está en Proxmox

Esto nos dejará tres archivos (o más si la máquina tiene más discos)

```
debian-minimal-12.1.0.ovf
debian-minimal-12.1.0.mf
debian-minimal-12.1.0-disk1.vmdk
```

El archivo ovf contiene la descripción e la máquina virtual

```
<?xml version="1.0" encoding="UTF-8"?>
<!--Generated by VMware ESX Server, User: root, UTC time: 2023-07-30T12:14:21.762012Z-->
<Envelope vmw:buildId="build-14320388" xmlns="http://schemas.dmtf.org/ovf/envelope/1"
xmlns:cim="http://schemas.dmtf.org/wbem/wscim/1/common"
xmlns:ovf="http://schemas.dmtf.org/ovf/envelope/1"
xmlns:rasd="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/>
  <References>
    <File ovf:href="debian-minimal-12.1.0-disk1.vmdk" ovf:id="file1" ovf:size="459838464"/>
  </References>
  <DiskSection>
    <Info>Virtual disk information</Info>
    <Disk ovf:capacity="40000" ovf:capacityAllocationUnits="byte * 2^20" ovf:diskId="vmdisk1"
ovf:fileRef="file1"
ovf:format="http://www.vmware.com/interfaces/specifications/vmdk.html#streamOptimized"
ovf:populatedSize="1528823808"/>
  </DiskSection>
  <NetworkSection>
    <Info>The list of logical networks</Info>
    <Network ovf:name="VM Network">
```

```
      <Description>The VM Network network</Description>
    </Network>
  </NetworkSection>
  <VirtualSystem ovf:id="debian-minimal-12.1.0">
    <Info>A virtual machine</Info>
    <Name>debian-minimal-12.1.0</Name>
    <OperatingSystemSection ovf:id="1" vmw:osType="otherGuest">
      <Info>The kind of installed guest operating system</Info>
    </OperatingSystemSection>........................................
```

Ejecutaremos el comando qm importovf

```
qm importovf <vmid> <manifest> <storage> [OPTIONS]
```

vmid es el ide nuestra nueva máquina, manifest es el archivo ovf y storage es el almacenamiento destino

En este caso lo hacemos con --dryrun que no modifica nada, y nos permite comprobar que todo está correcto.

```
qm importovf 202 debian-minimal-12.1.0.ovf local-lvm --dryrun
{
   "disks" : [
      {
         "backing_file" : "/mnt/pve/NAS/debian-minimal-12.1.0-disk1.vmdk",
         "disk_address" : "scsi0",
         "virtual_size" : 41943040000
      }
   ],
   "qm" : {
      "cores" : "2",
      "memory" : "2048",
      "name" : "debian-minimal-12.1.0"
   }
}
```

Como vemos, ha pasado los chequeos

Ahora podemos ejecutar el comando sin el dry-run y nos creará la máquina virtual

```
root@pve:/mnt/pve/NAS# qm importovf 202 debian-minimal-12.1.0.ovf local-lvm
  Logical volume "vm-202-disk-0" created.
```

```
transferred 0.0 B of 39.1 GiB (0.00%)

transferred 400.0 MiB of 39.1 GiB (1.00%)

transferred 804.0 MiB of 39.1 GiB (2.01%)

transferred 1.2 GiB of 39.1 GiB (3.01%)

transferred 1.6 GiB of 39.1 GiB (4.01%)

transferred 2.0 GiB of 39.1 GiB (5.02%)

transferred 2.4 GiB of 39.1 GiB (6.02%)

transferred 2.7 GiB of 39.1 GiB (7.02%)

transferred 3.1 GiB of 39.1 GiB (8.02%)

transferred 3.5 GiB of 39.1 GiB (9.03%)

transferred 3.9 GiB of 39.1 GiB (10.03%)

transferred 4.3 GiB of 39.1 GiB (11.03%)

transferred 4.7 GiB of 39.1 GiB (12.04%)

transferred 5.1 GiB of 39.1 GiB (13.04%)

transferred 5.5 GiB of 39.1 GiB (14.04%)

transferred 5.9 GiB of 39.1 GiB (15.05%)

transferred 6.3 GiB of 39.1 GiB (16.05%)

transferred 6.7 GiB of 39.1 GiB (17.05%)

transferred 7.1 GiB of 39.1 GiB (18.06%)

transferred 7.4 GiB of 39.1 GiB (19.06%)

transferred 7.8 GiB of 39.1 GiB (20.06%)

transferred 8.2 GiB of 39.1 GiB (21.06%)

transferred 8.6 GiB of 39.1 GiB (22.07%)

transferred 9.0 GiB of 39.1 GiB (23.07%)

transferred 9.4 GiB of 39.1 GiB (24.07%)

transferred 9.8 GiB of 39.1 GiB (25.08%)

transferred 10.2 GiB of 39.1 GiB (26.08%)

transferred 10.6 GiB of 39.1 GiB (27.08%)

transferred 11.0 GiB of 39.1 GiB (28.09%)

transferred 11.4 GiB of 39.1 GiB (29.09%)...............

......................................

transferred 38.0 GiB of 39.1 GiB (97.30%)

transferred 38.4 GiB of 39.1 GiB (98.30%)

transferred 38.8 GiB of 39.1 GiB (99.31%)

transferred 39.1 GiB of 39.1 GiB (100.00%)

transferred 39.1 GiB of 39.1 GiB (100.00%)

root@pve: /mnt/pve/NAS#
```

En ese momento tendremos una nueva máquina virtual en nuestro Proxmox con el ID 202

103 (homeassistant)
202 (debian-minimal-12.1.0)
localnetwork (pve)
NAS (pve)

Vemos que ha configurado todo, tal como venía en el fichero ovf

Summary	Edit Revert
Console	Name	debian-minimal-12.1.0
Hardware	Start at boot	No
Cloud-Init	Start/Shutdown order	order=any
Options	OS Type	Other
Task History	Boot Order	scsi0
Monitor	Use tablet for pointer	Yes
Backup	Hotplug	Disk, Network, USB
Replication	ACPI support	Yes
Snapshots	KVM hardware virtualization	Yes
Firewall	Freeze CPU at startup	No
Permissions	Use local time for RTC	Default (Enabled for Windows)

Name	debian-minimal-12.1.0
Start at boot	No
Start/Shutdown order	order=any
OS Type	Other
Boot Order	scsi0
Use tablet for pointer	Yes
Hotplug	Disk, Network, USB
ACPI support	Yes
KVM hardware virtualization	Yes
Freeze CPU at startup	No
Use local time for RTC	Default (Enabled for Windows)
RTC start date	now
SMBIOS settings (type1)	uuid=830bc548-70d7-4380-9fc4-c8b33d9e5fd6
QEMU Guest Agent	Default (Disabled)
Protection	No
Spice Enhancements	none
VM State storage	Automatic

Y ahora podremos realizar los cambios necesarios una vez arranque (MAC, tipo de disco, procesador, etc)

Virtual Machine 202 (debian-minimal-12.1.0) on node 'pve'　　No Tags ✏

Add ⌄	Remove	Edit	Disk Action ⌄	Revert

- 🗐 Summary
- >_ Console
- 🖵 Hardware
- ☁ Cloud-Init
- ⚙ Options
- 🗒 Task History
- 👁 Monitor
- 🖫 Backup
- ⇄ Replication
- 🕔 Snapshots
- 🛡 Firewall　▸
- 🔓 Permissions

▬ Memory	2.00 GiB
🖴 Processors	2 (1 sockets, 2 cores)
▮ BIOS	Default (SeaBIOS)
🖵 Display	Default
⚙ Machine	Default (i440fx)
🗄 SCSI Controller	Default (LSI 53C895A)
🖴 Hard Disk (scsi0)	local-lvm:vm-202-disk-0

Problemas que podemos encontrarnos

Algunas veces el disco del archivo manifest (ovf) no está demasiado bien definido, y nos puede dar problemas

```
root@pve: /mnt/pve/NAS/PF# qm importovf 204 PacketFence-ZEN-v13.0.0.ovf local-lvm --dryrun
warning: unable to parse the VM name in this OVF manifest, generating a default value
invalid host ressource /disk/vmdisk1, skipping
{
   "disks" : [],
   "qm" : {
      "cores" : "4",
      "memory" : "12288"
   }
}
```

En este caso, ejecutaremos, pero no nos creará el disco

```
root@pve: /mnt/pve/NAS/PF# qm importovf 204 PacketFence-ZEN-v13.0.0.ovf local-lvm
warning: unable to parse the VM name in this OVF manifest, generating a default value
```

```
invalid host ressource /disk/vmdisk1, skipping
```

Virtual Machine 204 (VM 204) on node 'pve'   No Tags ✏

Add ∨	Remove	Edit	Disk Action ∨	Revert

- 🖥 Summary
- >_ Console
- 🖵 Hardware
- ☁ Cloud-Init
- ⚙ Options
- 🗐 Task History
- 👁 Monitor
- 🖫 Backup
- ⇄ Replication
- ⟳ Snapshots
- 🛡 Firewall   ▹
- 🔓 Permissions

🟥	Memory	12.00 GiB
🔲	Processors	4 (1 sockets, 4 cores)
▮	BIOS	Default (SeaBIOS)
🖵	Display	Default
⚙	Machine	Default (i440fx)
🗃	SCSI Controller	Default (LSI 53C895A)

Como vemos nos ha creado una máquina sin nombre, y sin disco.

No hay problema, importamos posteriormente el disco.

```
root@pve: /mnt/pve/NAS/PF# qm importdisk 204 PacketFence-ZEN-v13.0.0-disk1.vmdk local-lvm
importing disk 'PacketFence-ZEN-v13.0.0-disk1.vmdk' to VM 204 ...
  Logical volume "vm-204-disk-0" created.
transferred 0.0 B of 195.3 GiB (0.00%)
transferred 2.0 GiB of 195.3 GiB (1.00%)
transferred 3.9 GiB of 195.3 GiB (2.00%)
transferred 5.9 GiB of 195.3 GiB (3.00%)
transferred 7.8 GiB of 195.3 GiB (4.00%)
transferred 9.8 GiB of 195.3 GiB (5.00%)
transferred 11.7 GiB of 195.3 GiB (6.00%)
transferred 13.7 GiB of 195.3 GiB (7.00%)
transferred 15.6 GiB of 195.3 GiB (8.00%)
transferred 17.6 GiB of 195.3 GiB (9.00%)
transferred 19.5 GiB of 195.3 GiB (10.00%)
transferred 21.5 GiB of 195.3 GiB (11.00%)
transferred 23.4 GiB of 195.3 GiB (12.00%)
transferred 25.4 GiB of 195.3 GiB (13.00%)
transferred 27.3 GiB of 195.3 GiB (14.00%)
```

```
transferred 29.3 GiB of 195.3 GiB (15.00%)
transferred 31.2 GiB of 195.3 GiB (16.00%)
transferred 33.2 GiB of 195.3 GiB (17.00%)
...................................
transferred 183.6 GiB of 195.3 GiB (94.00%)
transferred 185.5 GiB of 195.3 GiB (95.00%)
transferred 187.5 GiB of 195.3 GiB (96.00%)
transferred 189.5 GiB of 195.3 GiB (97.00%)
transferred 191.4 GiB of 195.3 GiB (98.00%)
transferred 193.4 GiB of 195.3 GiB (99.00%)
transferred 195.3 GiB of 195.3 GiB (100.00%)
transferred 195.3 GiB of 195.3 GiB (100.00%)
Successfully imported disk as 'unused0: local-lvm: vm-204-disk-0'
```

Nos habrá creado un Unsued Disk 0, que si hacemos doble click sobre él, lo podremos asignar a la máquina

Simplemente hacemos doble click en el disco Unused Disk 0

Escogemos el tipo de Bus/Device (IDE, SATA, etc) en nuestro caso Virtio

Y ya lo tenemos todo a falta de renombrar la máquina

Virtual Machine 204 (VM 204) on node 'pve'   No Tags ✏

Add ∨	Remove	Edit	Disk Action ∨	Revert

Summary
Console
Hardware
Cloud-Init
Options
Task History
Monitor
Backup
Replication
Snapshots
Firewall ▸
Permissions

▬ Memory	12.00 GiB
▤ Processors	4 (1 sockets, 4 cores)
▮ BIOS	Default (SeaBIOS)
▢ Display	Default
⚙ Machine	Default (i440fx)
▤ SCSI Controller	Default (LSI 53C895A)
▱ Hard Disk (virtio0)	local-lvm:vm-204-disk-0,iothread=1,size=200000M

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