



# Importing UDS on Proxmox



#SmartDigitalWorkplace  
— VIRTUAL CABLE —

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## INTRODUCTION

UD Enterprise components are provided as Virtual Appliances.

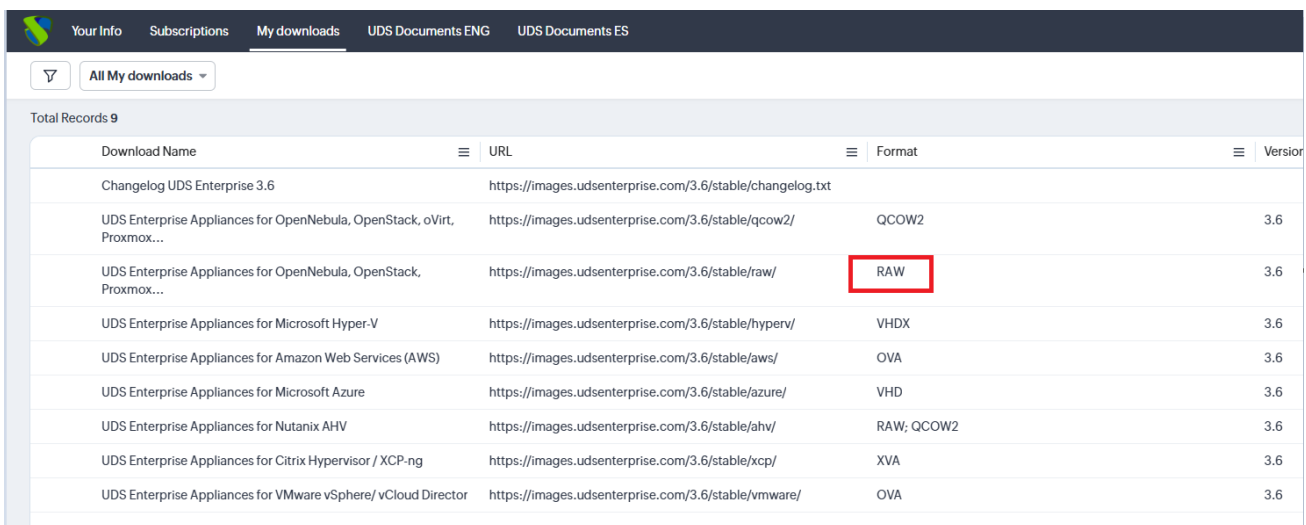
In order to upload these elements to the Proxmox platform, the following tasks will be performed:

### Download UDS Appliances.

Log in My UDS:

<https://myuds.udsenderprise.com/portal/MyUDSEnterprise/crm/login.sas>

Go to **“My Downloads”** and select **“UDS Enterprise Appliances for OpenNebula, OpenStack, Proxmox (QCOW2 format):**



Download Name	URL	Format	Version
Changelog UDS Enterprise 3.6	<a href="https://images.udsenderprise.com/3.6/stable/changelog.txt">https://images.udsenderprise.com/3.6/stable/changelog.txt</a>		
UDS Enterprise Appliances for OpenNebula, OpenStack, oVirt, Proxmox...	<a href="https://images.udsenderprise.com/3.6/stable/qcow2/">https://images.udsenderprise.com/3.6/stable/qcow2/</a>	QCOW2	3.6
UDS Enterprise Appliances for OpenNebula, OpenStack, Proxmox...	<a href="https://images.udsenderprise.com/3.6/stable/raw/">https://images.udsenderprise.com/3.6/stable/raw/</a>	<b>RAW</b>	3.6
UDS Enterprise Appliances for Microsoft Hyper-V	<a href="https://images.udsenderprise.com/3.6/stable/hyperv/">https://images.udsenderprise.com/3.6/stable/hyperv/</a>	VHDX	3.6
UDS Enterprise Appliances for Amazon Web Services (AWS)	<a href="https://images.udsenderprise.com/3.6/stable/aws/">https://images.udsenderprise.com/3.6/stable/aws/</a>	OVA	3.6
UDS Enterprise Appliances for Microsoft Azure	<a href="https://images.udsenderprise.com/3.6/stable/azure/">https://images.udsenderprise.com/3.6/stable/azure/</a>	VHD	3.6
UDS Enterprise Appliances for Nutanix AHV	<a href="https://images.udsenderprise.com/3.6/stable/ahv/">https://images.udsenderprise.com/3.6/stable/ahv/</a>	RAW, QCOW2	3.6
UDS Enterprise Appliances for Citrix Hypervisor / XCP-ng	<a href="https://images.udsenderprise.com/3.6/stable/xcp/">https://images.udsenderprise.com/3.6/stable/xcp/</a>	XVA	3.6
UDS Enterprise Appliances for VMware vSphere/ vCloud Director	<a href="https://images.udsenderprise.com/3.6/stable/vmware/">https://images.udsenderprise.com/3.6/stable/vmware/</a>	OVA	3.6

This will take you to a download repository where you’ll find the UDS Appliances:

## UDS Enterprise 4.0 RC Images

Please, select the option that best fit your needs

- [VMWare Images](#)
- [XCP-ng/XenServer Images](#)
- [Nutanix AHV Images](#)
- [Azure Images](#)
- [AWS Images](#)
- [Cloud Images](#)
- [Hyper-V](#)
- [RAW Images \(For OpenStack, OpenNebula, ProxMox, ...\)](#)
- [QCOW2 Images \(For OpenStack, OpenNebula, ProxMox, oVirt>=4.2, ...\)](#)

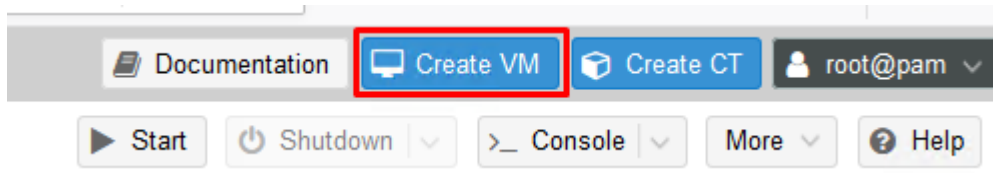
## Import UDS Appliances on the virtual platform

See below an example with the UDS Server Appliance (**UDS-Server-X.X.qcow2**).

The minimum hardware requirements are:

VM	Memory (MB)	vCPUs	STORAGE
MySQL	3072	2	24
Server	4096	4	16
Tunnel	4096	4	20

Access the Proxmox environment and create a new virtual machine:



Name the new virtual machine and pay attention to the VM ID, it will be used later.

**Create: Virtual Machine** ✕

General
OS
System
Hard Disk
CPU
Memory
Network
Confirm

Node: proxmox
Resource Pool:  

VM ID: 100
 

Name: UDS-Server

---

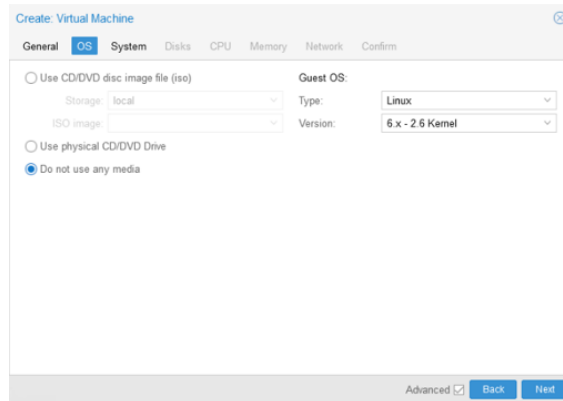
Start at boot: 
Start/Shutdown order: any

Startup delay: default

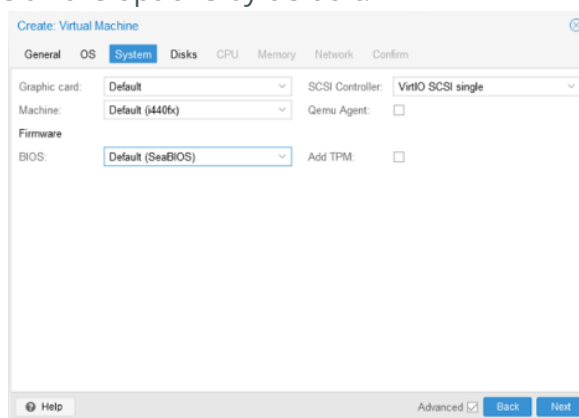
Shutdown timeout: default

Help
Advanced 
Back
Next

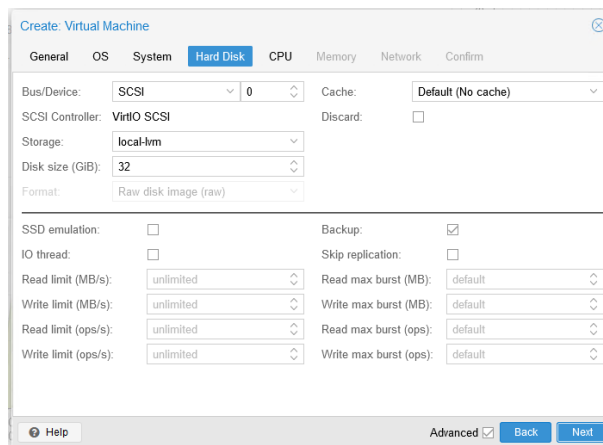
In this case an ISO file will not be used. Select the **“Do not use any media”** option.



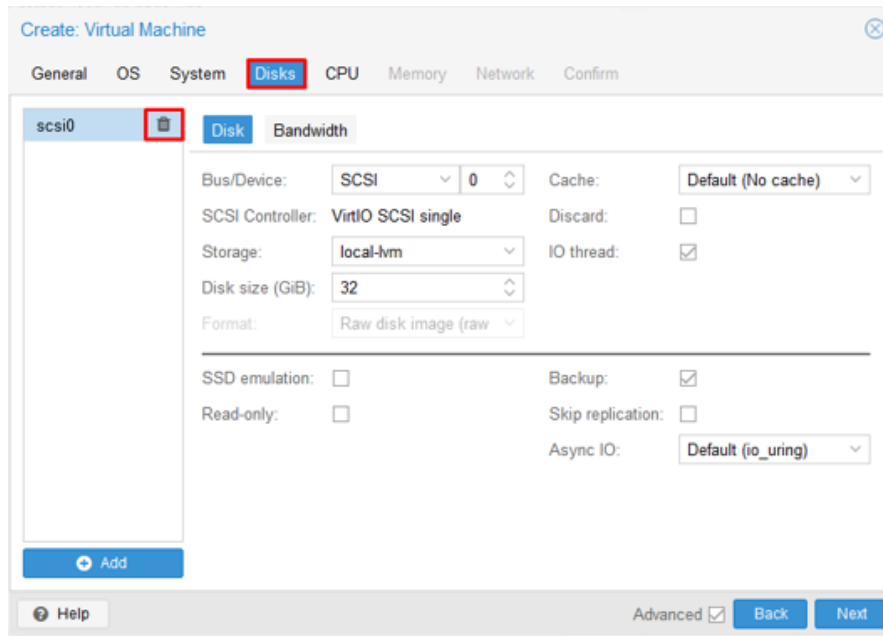
On the **“System”** tab, leave all the options by default.



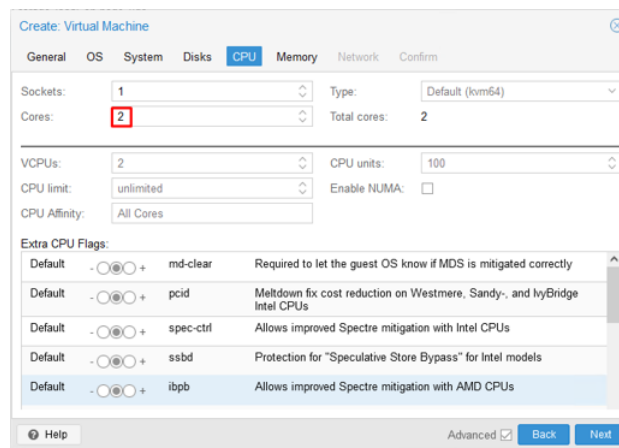
The size of the disk can be selected on the **“Hard Disk”** tab. In this case, it does not matter the size established, since it will be replaced later.



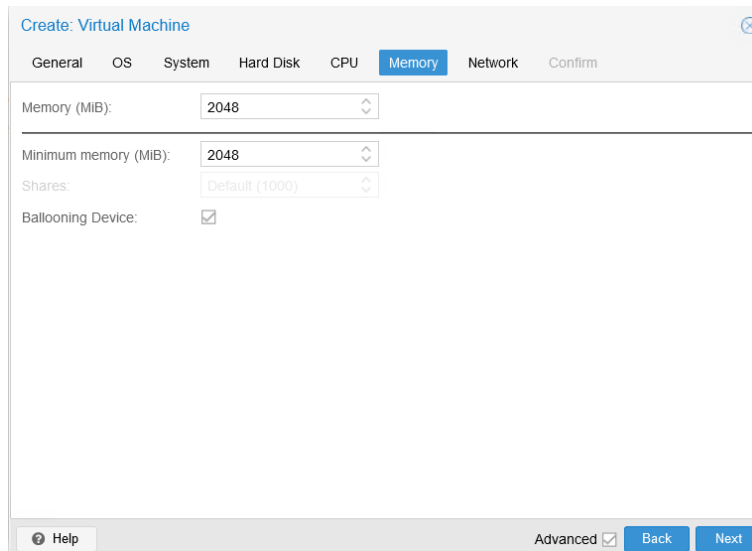
NOTE: in the new versions of Proxmox (from 7.1 and ahead) there is a new tab called "Disk" where we can add or delete the disks that the machine will use, in this case we can eliminate all the disks since it will be the one that we import the one that the machine will use later .



The virtual cores can be assigned on the "CPU" tab. At least 2 are necessary.

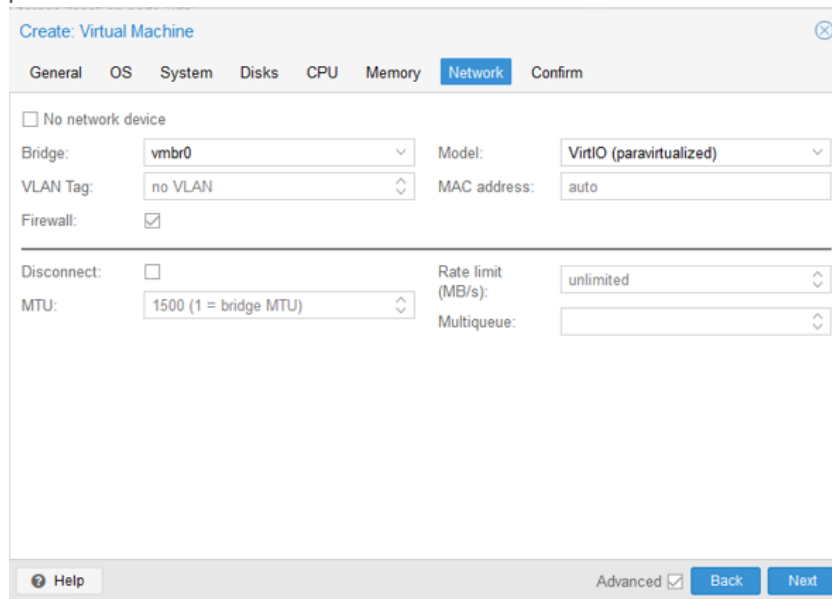


The RAM memory can be assigned on the **“Memory”** tab. At least 2 GB are necessary.



The screenshot shows the 'Memory' tab of the 'Create: Virtual Machine' dialog. The 'Memory (MiB)' field is set to 2048. The 'Minimum memory (MiB)' field is also set to 2048. The 'Shares' field is set to 'Default (1000)'. The 'Ballooning Device' checkbox is checked. At the bottom, there is a 'Help' button, an 'Advanced' checkbox which is checked, and 'Back' and 'Next' buttons.

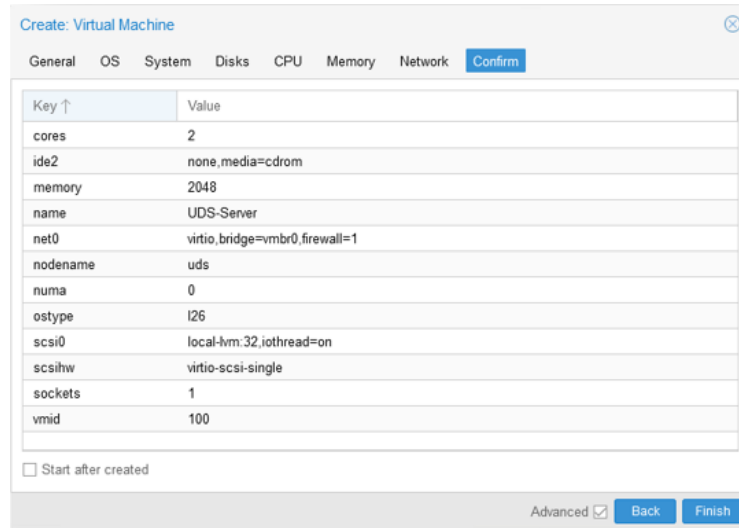
The network adapter can be chosen on the **“Network”** tab.



The screenshot shows the 'Network' tab of the 'Create: Virtual Machine' dialog. The 'No network device' checkbox is unchecked. The 'Bridge' is set to 'vibr0' and the 'Model' is set to 'VirtIO (paravirtualized)'. The 'VLAN Tag' is set to 'no VLAN' and the 'MAC address' is set to 'auto'. The 'Firewall' checkbox is checked. The 'Disconnect' checkbox is unchecked. The 'MTU' is set to '1500 (1 = bridge MTU)'. The 'Rate limit (MB/s)' is set to 'unlimited' and the 'Multiqueue' field is empty. At the bottom, there is a 'Help' button, an 'Advanced' checkbox which is checked, and 'Back' and 'Next' buttons.

On the **"Confirm"** tab, you can see a summary of the previous configurations applied.

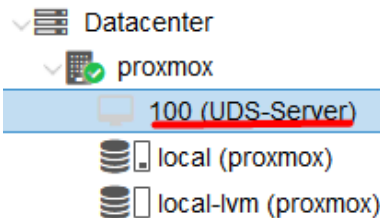
**NOTE:** Do not check the **"start after created"** box.



Key ↑	Value
cores	2
ide2	none,media=cdrom
memory	2048
name	UDS-Server
net0	virtio,bridge=vbr0,firewall=1
nodename	uds
numa	0
ostype	l26
scsi0	local-lvm 32,iotthread=on
scsihw	virtio-scsi-single
sockets	1
vmid	100

Start after created

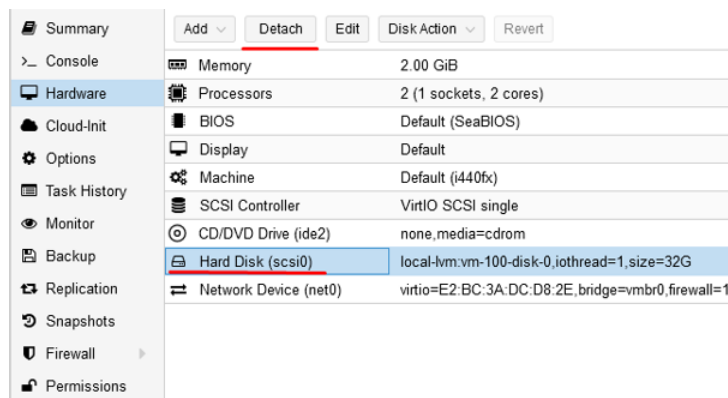
Advanced  Back Finish



- ▼ Datacenter
  - ▼ proxmox
    - 100 (UDS-Server)**
    - local (proxmox)
    - local-lvm (proxmox)

The virtual machine is already created. Now the hard disk has to be replaced with the new one that contains the UDS-Server image in **QCOW2** format.

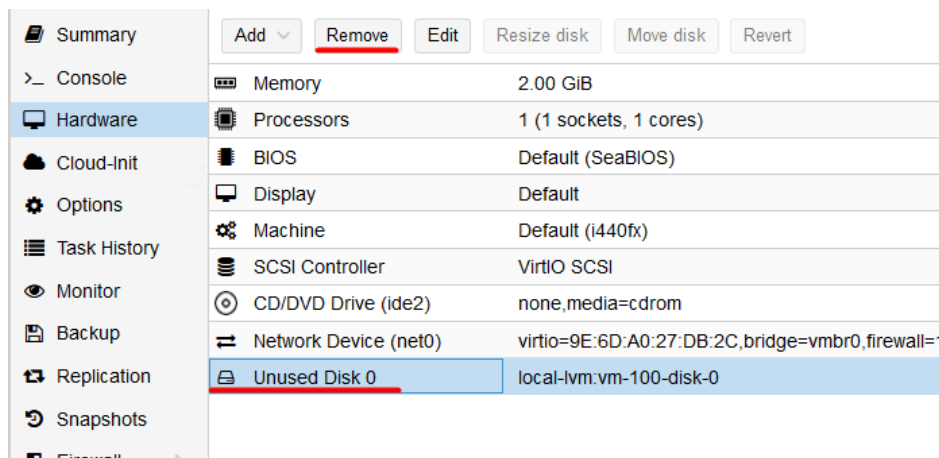
In the **"Hardware"** tab, select the disk and choose the option **"Detach"** to remove the disk previously generated.



	Configuration	Value
Memory		2.00 GiB
Processors		2 (1 sockets, 2 cores)
BIOS		Default (SeaBIOS)
Display		Default
Machine		Default (i440fx)
SCSI Controller		VirtIO SCSI single
CD/DVD Drive (ide2)		none,media=cdrom
<b>Hard Disk (scsi0)</b>		local-lvm:vm-100-disk-0,iotthread=1,size=32G
Network Device (net0)		virtio=E2:BC:3A:DC:D8:2E,bridge=vbr0,firewall=1



Once detached, click on the "Remove" tab to delete it.



Once removed, access into the Proxmox terminal to insert the UDS-Server appliance in **QCOW2** format.

First download the appliances and unzip them:

`wget https://images.udsenderprise.com/4.0/stable/qcow2/UDS-Server-qcow2.4.0.0.zip`

`unzip UDS-Server-qcow2.4.0.0.qcow2`

```
root@proxmox:~# wget https://images.udsenderprise.com/4.0/beta/qcow2/UDS-Server-qcow2.4.0.0.zip
--2024-08-20 23:52:53-- https://images.udsenderprise.com/4.0/beta/qcow2/UDS-Server-qcow2.4.0.0.zip
Resolving images.udsenderprise.com (images.udsenderprise.com)... 188.165.133.128
Connecting to images.udsenderprise.com (images.udsenderprise.com)|188.165.133.128|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1858688290 (1.7G) [application/zip]
Saving to: 'UDS-Server-qcow2.4.0.0.zip'

UDS-Server-qcow2.4.0.0.zip  100%[=====>] 1.73G  72.8MB/s  in 23s
2024-08-20 23:53:16 (78.7 MB/s) - 'UDS-Server-qcow2.4.0.0.zip' saved [1858688290/1858688290]

root@proxmox:~# unzip UDS-Server-qcow2.4.0.0.zip
Archive:  UDS-Server-qcow2.4.0.0.zip
  inflating: UDS-Server-qcow2.4.0.0.qcow2
root@proxmox:~#
```

Type the following command:

`qm importdisk "id_machine" "path_image" "storage_proxmox"`

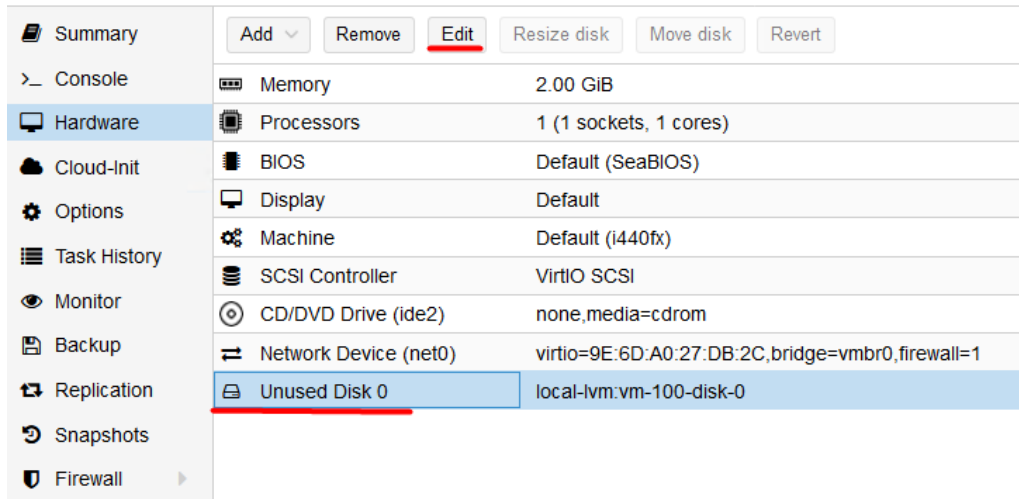
```
root@proxmox:~# qm importdisk 100 UDS-Server-qcow2.4.0.0.qcow2 local
```

MACHINE ID ←      ↓ QCOW2 DISK PATH      ↓ DATASTORE

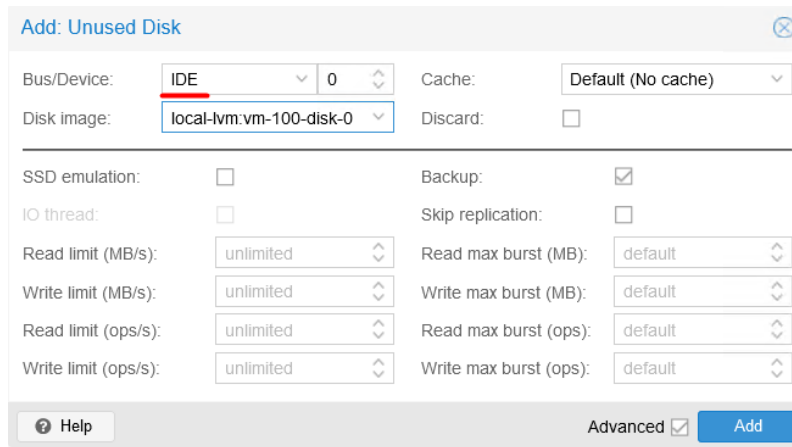
Once finished, you can go back to the GUI:

```
transferred: 8589934592 bytes remaining: 0 bytes total: 8589934592 bytes progression: 100.00 %
transferred: 8589934592 bytes remaining: 0 bytes total: 8589934592 bytes progression: 100.00 %
Successfully imported disk as 'unused0:local-lvm:vm-100-disk-0'
```

On the **“Hardware”** tab section, you can edit the unused disk.



Note that the **“Bus”** type must be **IDE**.



The next step is to configure the boot order:

Summary		Edit	Revert
Console	Name	UDS-Server	
Hardware	Start at boot	No	
Cloud-Init	Start/Shutdown order	order=any	
Options	OS Type	Linux 5.x - 2.6 Kernel	
Task History	<b>Boot Order</b>	ide2, net0	
Monitor	Use tablet for pointer	Yes	
Backup	Hotplug	Disk, Network, USB	
	ACPI support	Yes	

The imported image has to be the first one.

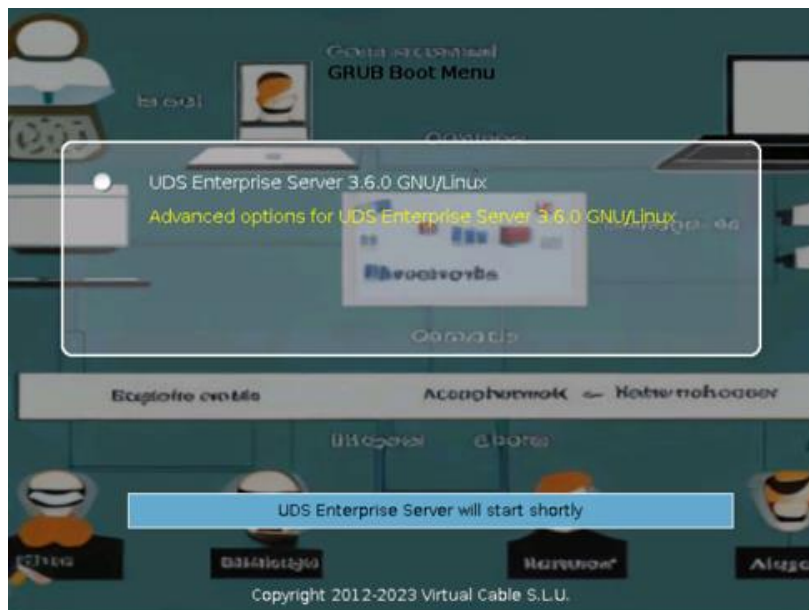
Edit: Boot Order

#	Enabled	Device	Description
1	<input checked="" type="checkbox"/>	ide0	local-ivm:vm-100-disk-0,size=8G
2	<input checked="" type="checkbox"/>	ide2	none,media=cdrom
3	<input checked="" type="checkbox"/>	net0	virtio=9E:6D:A0:27:DB:2C,bridge=vbr0,firewall=1

Drag and drop to reorder

Help OK Reset

The virtual machine can be started now:





## THE SMART DIGITAL WORKPLACE SOLUTION BY VIRTUAL CABLE

### About UDS Enterprise

[UDS Enterprise](#) is a new software concept for creating a **fully customized workplace virtualization** platform. It provides **secure 24x7 access** from **any location and device** to all applications and software of an organization or educational center.

It allows you to combine Windows and Linux **desktop and application virtualization** in a single console, as well **as remote access** to Windows, Linux and macOS computers. Its Open Source base guarantees **compatibility with any third-party technology**. It can be deployed on-premises, in a public, private, hybrid or **multicloud**. You can even combine several environments at the same time and perform automatic and **intelligent overflows** to optimize performance and efficiency. All with a **single subscription**.

### About Virtual Cable

[Virtual Cable](#) is a company specialized in the digital **transformation of the workplace**. The company develops, supports and markets UDS Enterprise. It has recently been recognized as an **IDC Innovator in Virtual Client Computing** worldwide. Its team of experts has designed **smart digital workplace solutions (VDI, vApp and remote access to physical computers)** tailored to each sector to provide a unique user experience fully adapted to the needs of each user profile. Virtual Cable professionals have **more than 30 years** of experience in IT and software development and more than 15 years in virtualization technologies. **Everyday millions of Windows and Linux virtual desktops** are deployed with UDS Enterprise around the world.