

# Importing VMs from TrueNAS Core (Bhyve) to Proxmox

## Summary

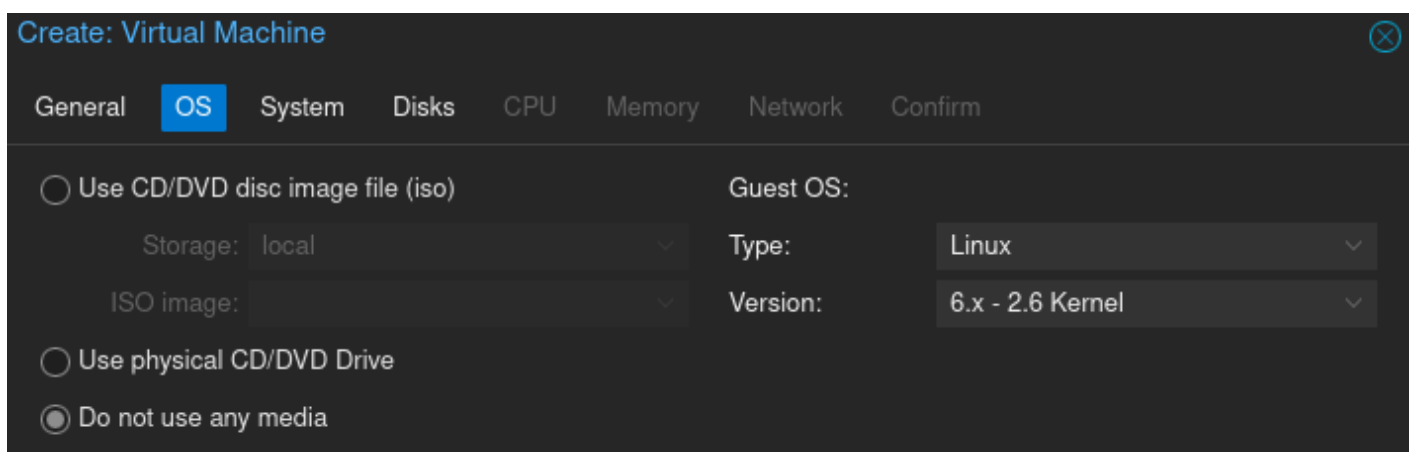
This page explains the process of importing VMs from TrueNAS Core, which uses FreeBSD's [Bhyve](#) for virtualization, to Proxmox.

## Details

### Proxmox

In Proxmox, create a new VM and note its VM number. When creating the VM, follow these guidelines:

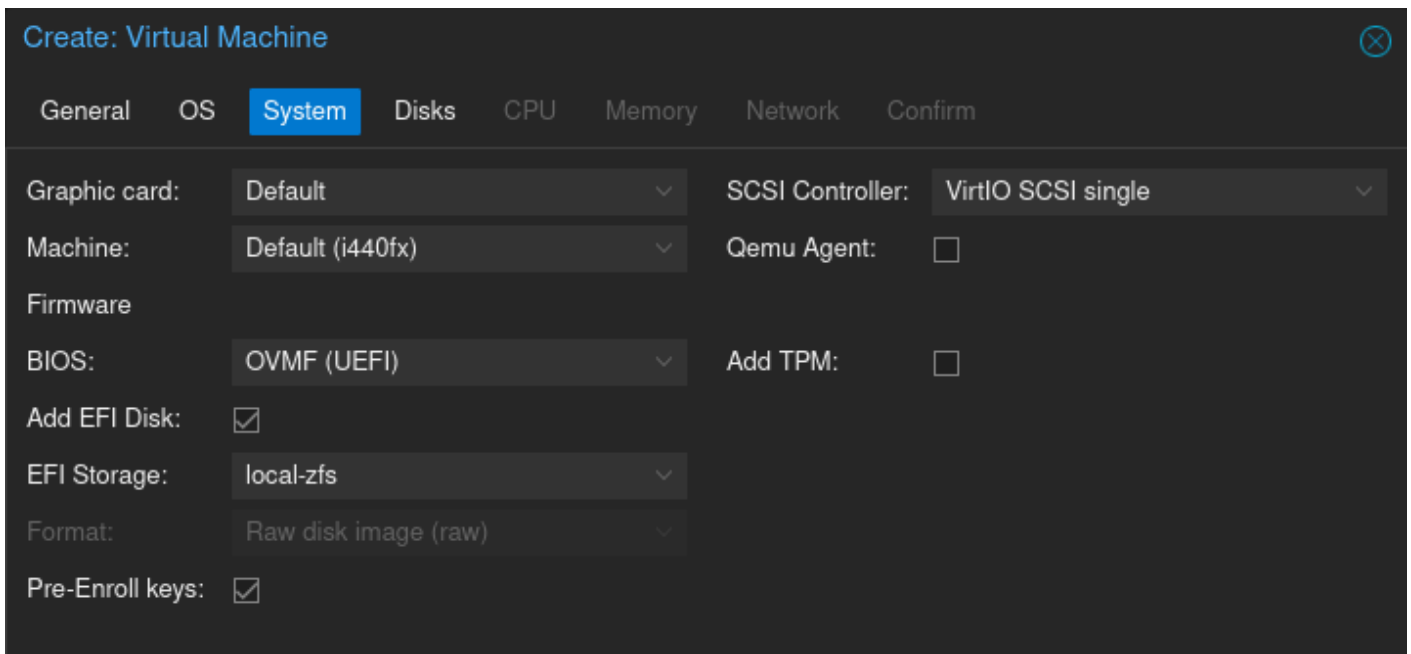
In the OS section, select "Do not use any media"



The screenshot shows the 'Create: Virtual Machine' dialog box in Proxmox, with the 'OS' tab selected. The dialog has tabs for General, OS, System, Disks, CPU, Memory, Network, and Confirm. In the OS section, the 'Use CD/DVD disc image file (iso)' option is selected. The 'Storage' dropdown is set to 'local'. The 'ISO image' dropdown is empty. The 'Guest OS' section shows 'Type' set to 'Linux' and 'Version' set to '6.x - 2.6 Kernel'. The 'Use physical CD/DVD Drive' option is unselected, and the 'Do not use any media' option is selected.

Option	Value
Use CD/DVD disc image file (iso)	<input checked="" type="radio"/>
Storage	local
ISO image	
Guest OS Type	Linux
Guest OS Version	6.x - 2.6 Kernel
Use physical CD/DVD Drive	<input type="radio"/>
Do not use any media	<input checked="" type="radio"/>

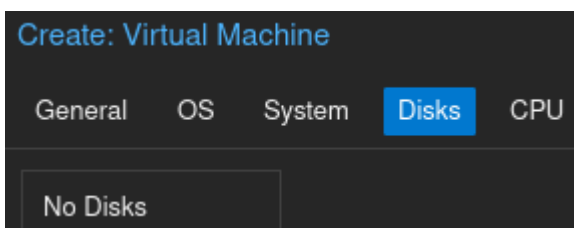
In the System section, select "OVMF (UEFI)" for BIOS. Also select EFI Storage to be the same dataset as where you would like your VM's disk to be. We chose the default local-zfs dataset, but you may choose any other dataset, such as an encrypted dataset if you want your VMs to be encrypted.



The screenshot shows the 'Create: Virtual Machine' dialog box with the 'System' tab selected. The tabs are General, OS, System, Disks, CPU, Memory, Network, and Confirm. The System tab contains the following settings:

Setting	Value
Graphic card:	Default
Machine:	Default (i440fx)
Firmware	
BIOS:	OVMF (UEFI)
Add EFI Disk:	<input checked="" type="checkbox"/>
EFI Storage:	local-zfs
Format:	Raw disk image (raw)
Pre-Enroll keys:	<input checked="" type="checkbox"/>
SCSI Controller:	VirtIO SCSI single
Qemu Agent:	<input type="checkbox"/>
Add TPM:	<input type="checkbox"/>

In the disk section, remove the default disk and do not set a disk.



The screenshot shows the 'Create: Virtual Machine' dialog box with the 'Disks' tab selected. The tabs are General, OS, System, Disks, and CPU. The Disks tab contains a single button labeled 'No Disks'.

Continue with the rest of the sections per your own personal requirements.

## TrueNAS

Shutdown the VM in TrueNAS and make a snapshot of the VM dataset in TrueNAS. Login to SSH in TrueNAS as the root user and run the following command to send the dataset using SSH to Proxmox:

```
zfs send [VM_Dataset]@[snapshot_name] | ssh root@proxmox 'zfs receive rpool/[any dataset here]/vm-[num]-disk-1'
```

If you use DHCP in your network and you would like your IP address for the VM to be identical after migration, press the devices button in your virtual machine menu:

Virtual Machines

COLUMNS

ADD

Name	State	Autostart
<div> <div>Virtual CPUs: 1</div> <div>Cores: 2</div> <div>Threads: 1</div> <div>Memory Size: 8.00 GiB</div> <div>Boot Loader Type: UEFI</div> <div>System Clock: LOCAL</div> <div>VNC Port: 31449</div> <div>Com Port: /dev/nmdm2B</div> <div>Description:</div> <div>Shutdown Timeout: 90 seconds</div> </div> <div> <div>▶ START</div> <div>✎ EDIT</div> <div>🗑 DELETE</div> <div>👤 DEVICES</div> <div>📄 CLONE</div> </div>		

Then, press the three dots over the "NIC" device and press Edit.

Device ID	Device	Order
14	NIC	1002
15	DISK	1001
16	VNC	1002

Edit

Delete

Change Device Order

Details

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A new menu should show up which displays the MAC address. Copy this MAC address. In Proxmox, you may edit your Network Device and paste the MAC address there.

## Back to Proxmox

Back in Proxmox, login to the root shell and run the `qm rescan` command. Then, go into your VM's hardware menu. The disk should show up as an unattached device. You may now attach it.

Congratulations, you have successfully migrated a virtual machine from TrueNAS Core to Proxmox!

## Source Description Block

Multiple Sources:

<https://forum.proxmox.com/threads/adding-existing-disk-from-storage-to-vm.108645/>

[https://www.youtube.com/watch?v=yKZ\\_JJaQHDk](https://www.youtube.com/watch?v=yKZ_JJaQHDk)

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