Proxmox

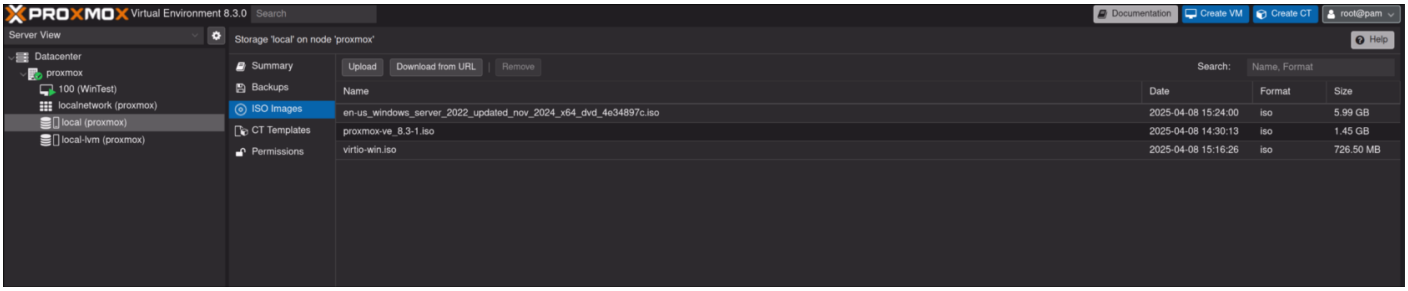
- Windows VM Install

Windows VM Install

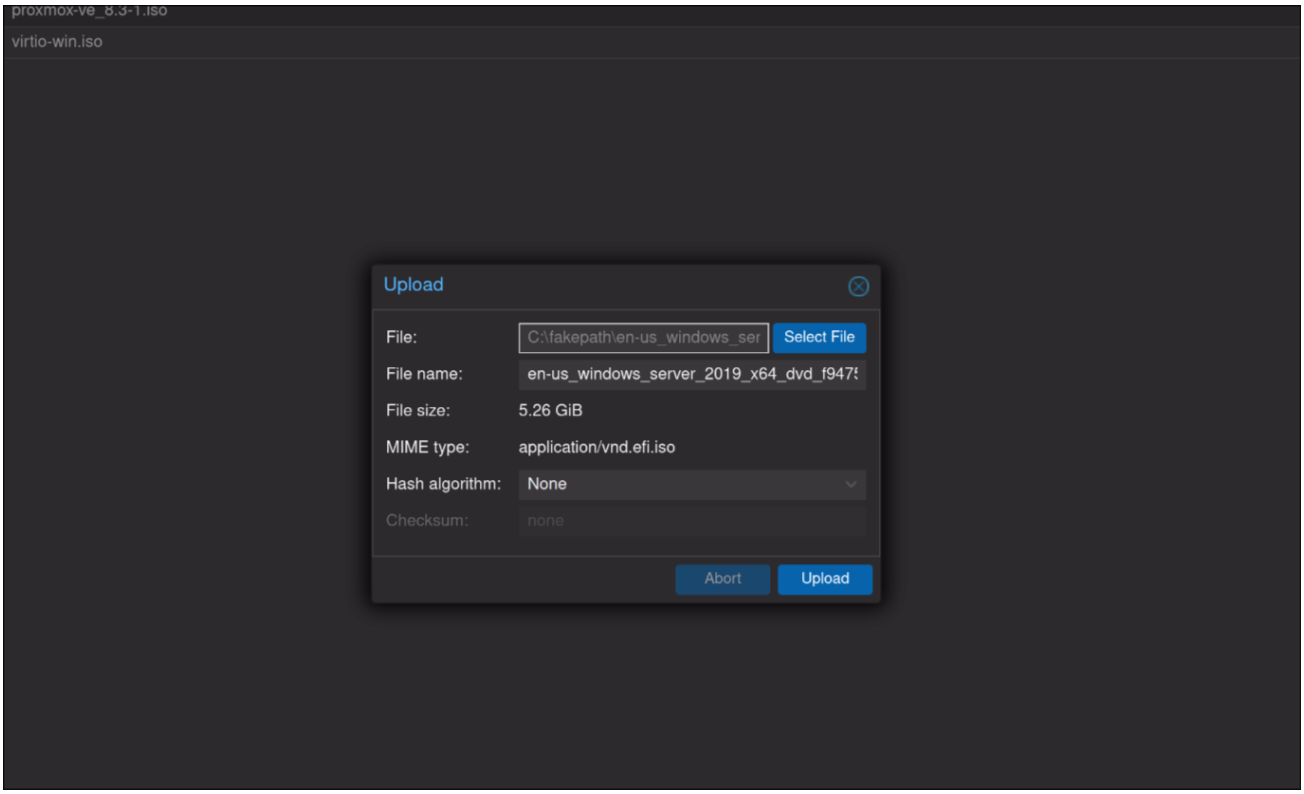
All the options used are for optimal performance and compatibility. I got this information from the official Proxmox wiki. If planning on changing settings or more info is needed would recommend reading it.

Upload the needed ISOs

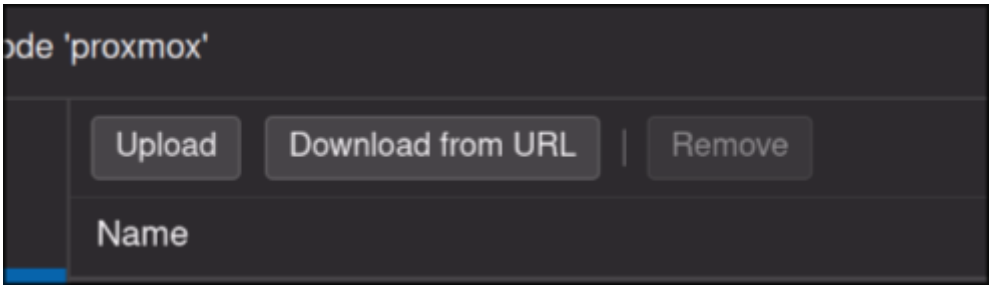
1. Choose the local storage and choose ISO. Then choose to upload your ISO.



2. Browse and pick the ISO you want to upload and wait for it to upload

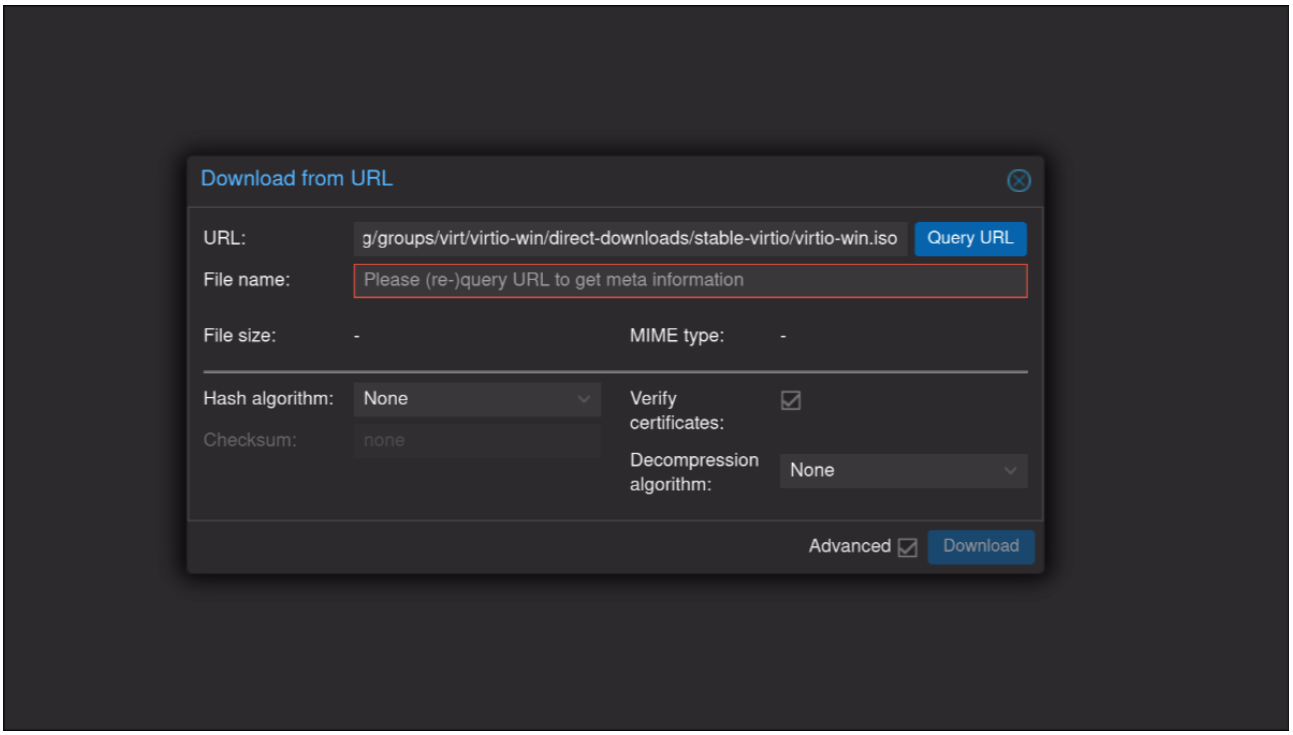


3. Now choose to **Download from URL**



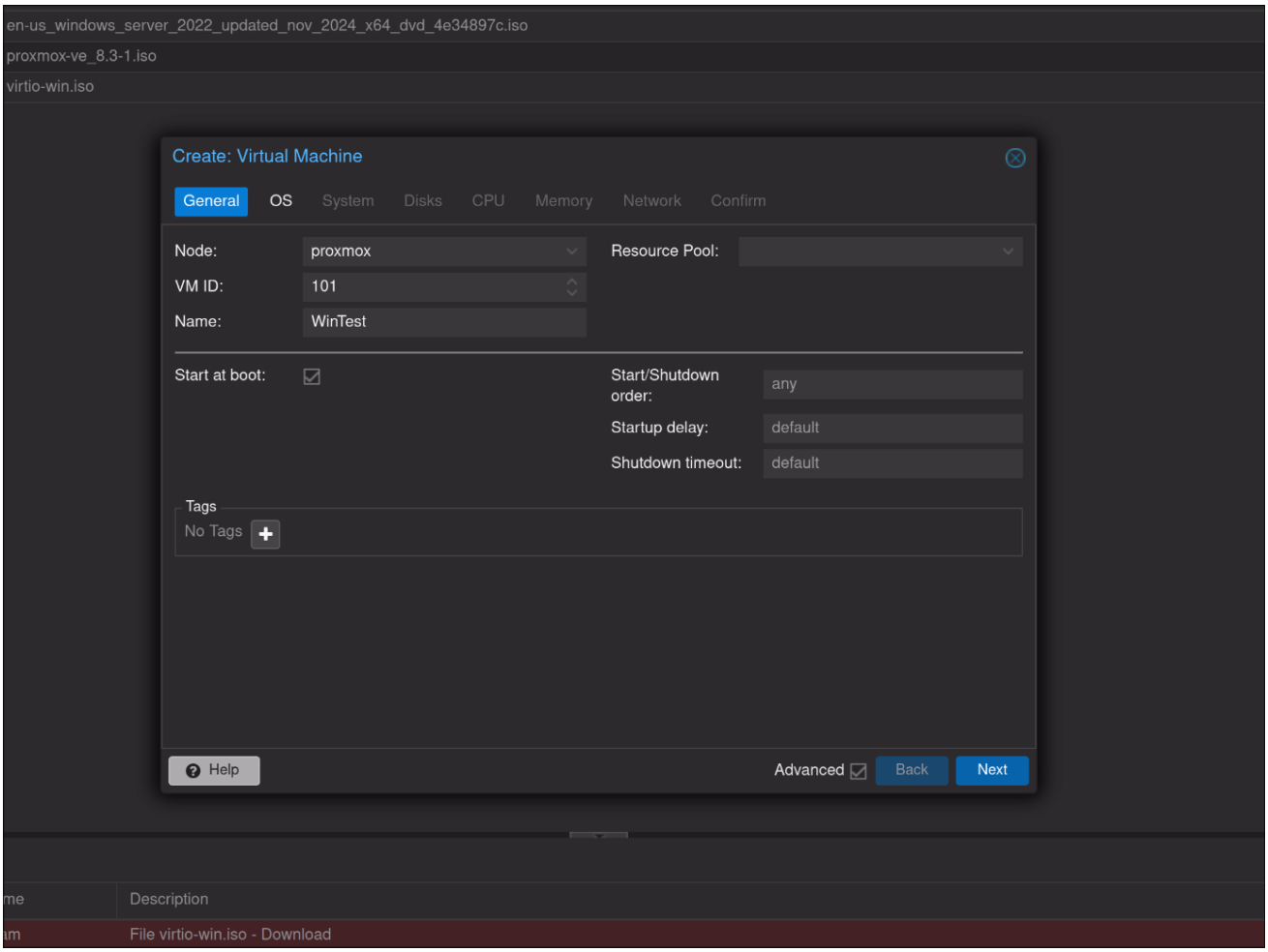
4. In the URL paste link below and choose **Query URL**. Then choose **Download** and wait for it to finish. These are drivers for windows.

https://fedorapeople.org/groups/virt/virtio-win/direct-downloads/stable-virtio/virtio-win.iso

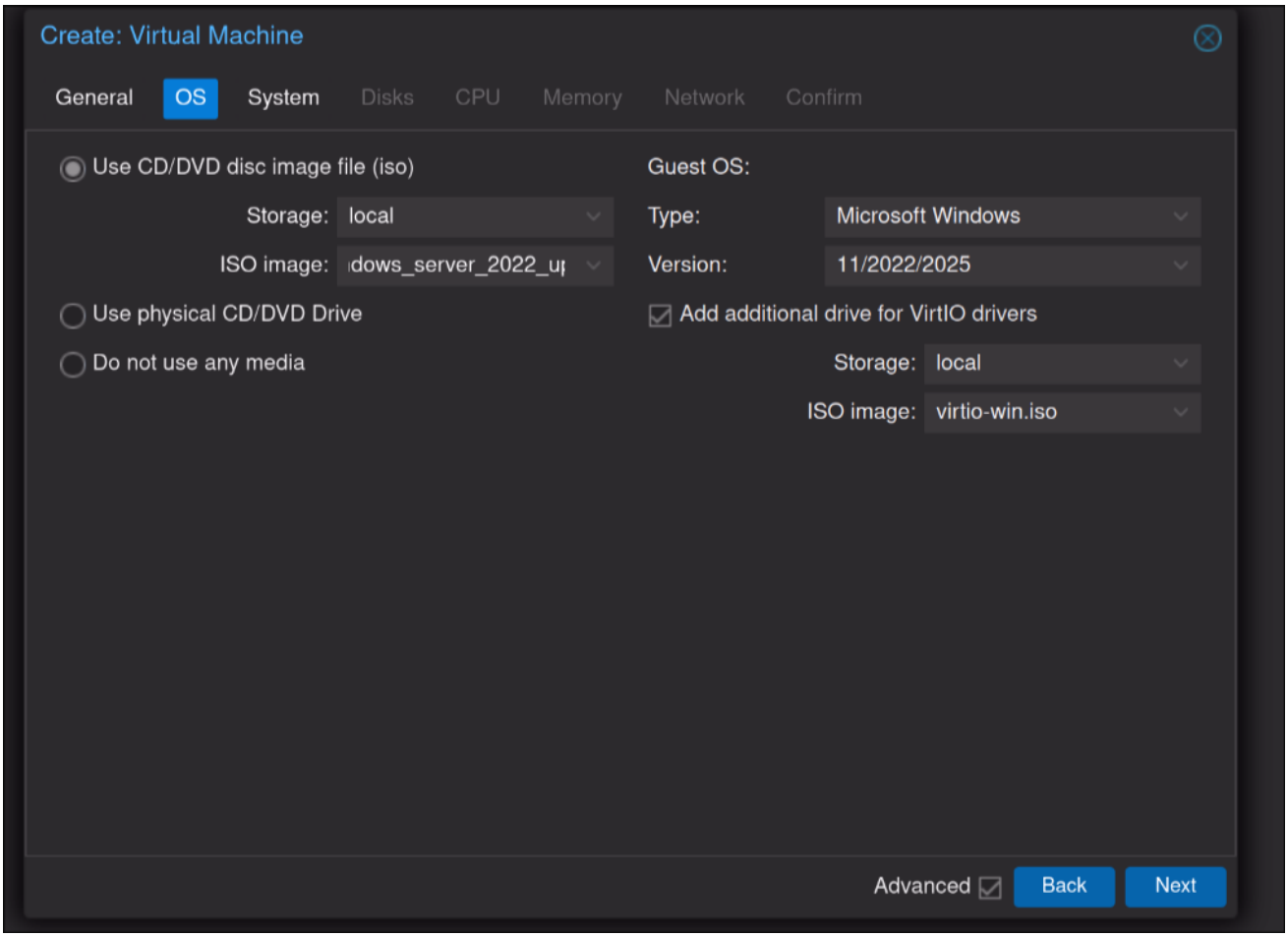


Create the Windows VM

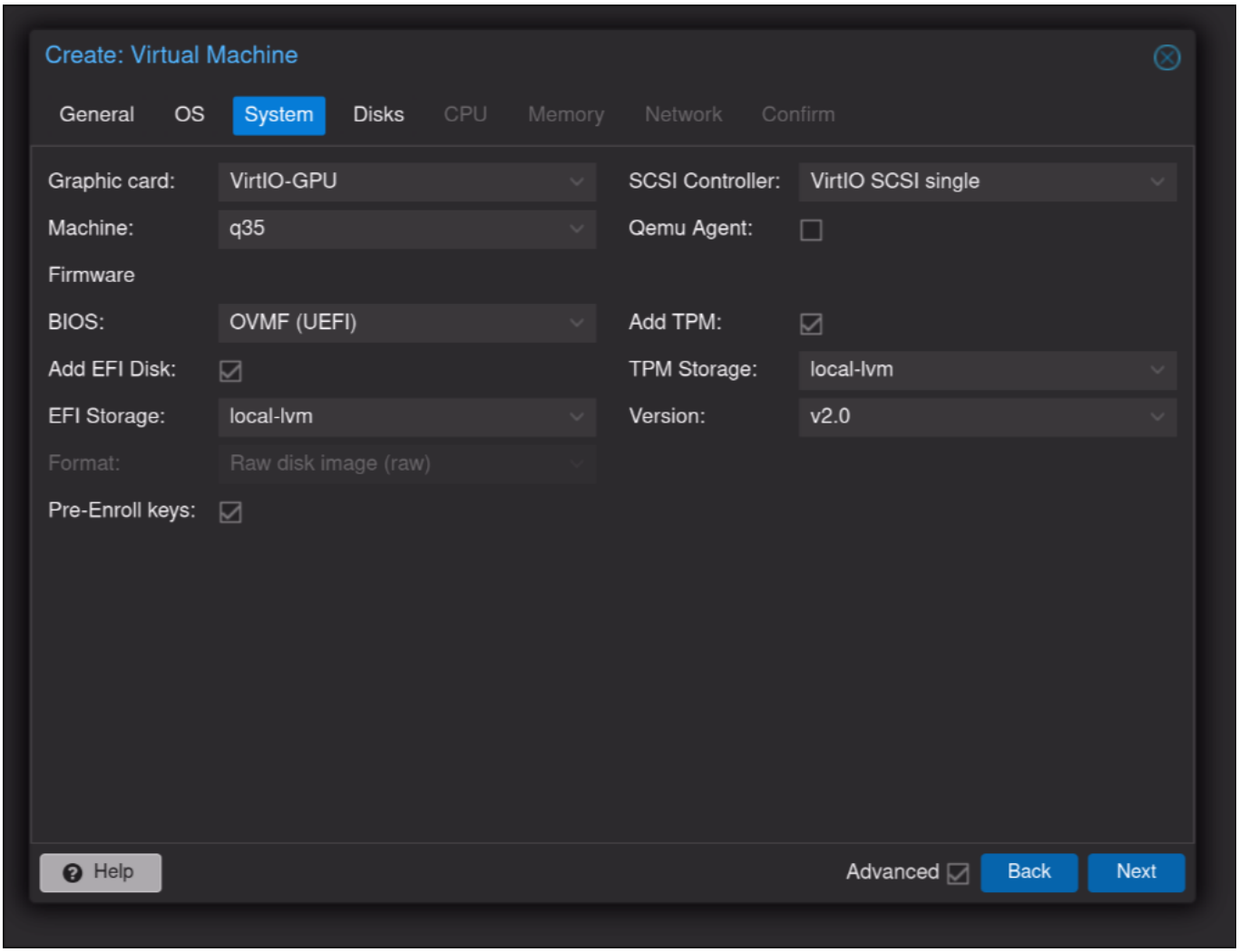
1. Choose Create new VM in the top right. I recommend checking the **Advanced** option and checking **Start on boot.** Click next after the general info is filled out.



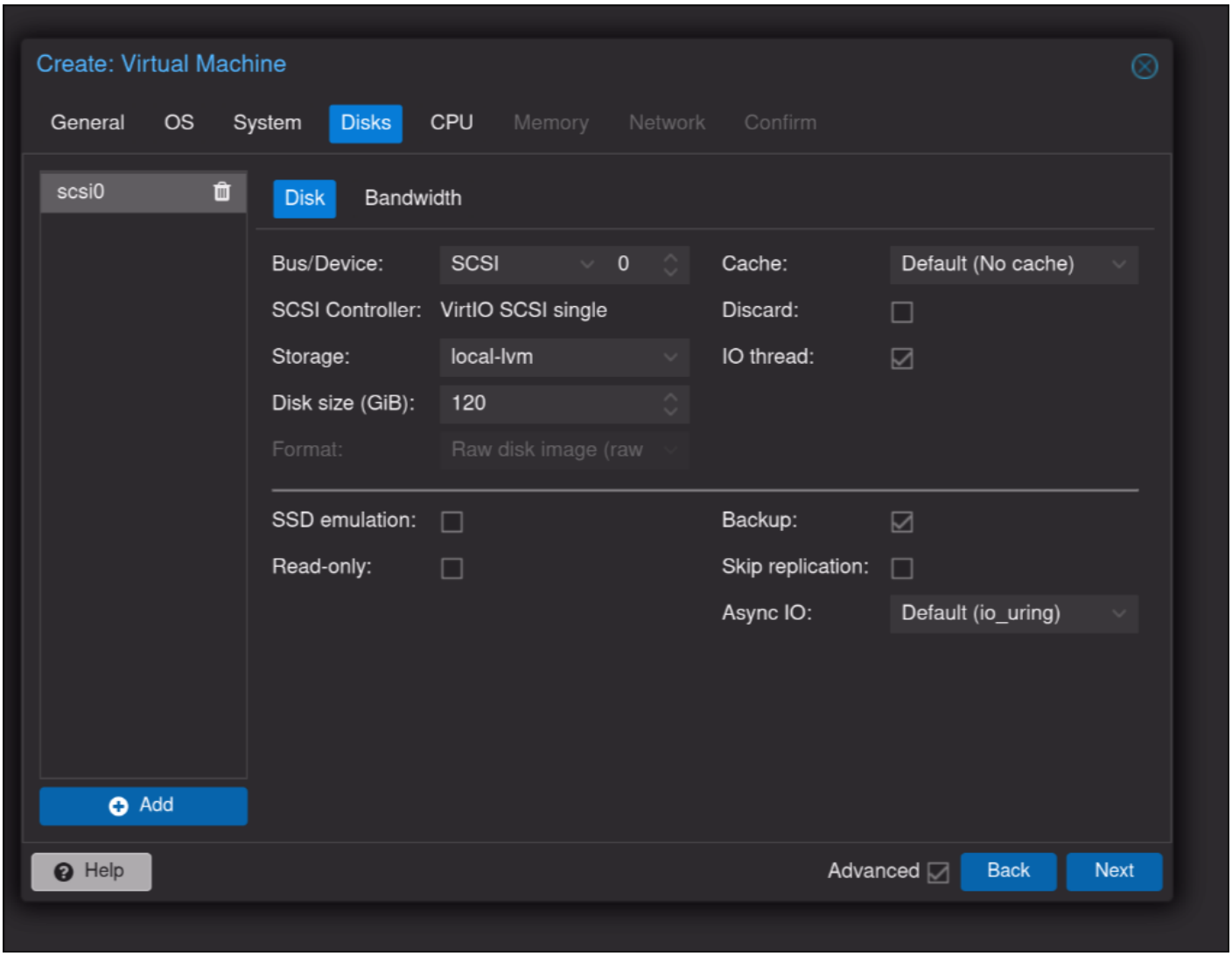
2. Choose the ISO to boot with on the left and change the guest type on the right to match it. Make sure to check the **Add additional drive for VirtIO drivers** and choose the **virtio-win.iso**. Click Next



3. Choose the drives for the EFI and TPM and then make sure the rest of the settings match and click next.



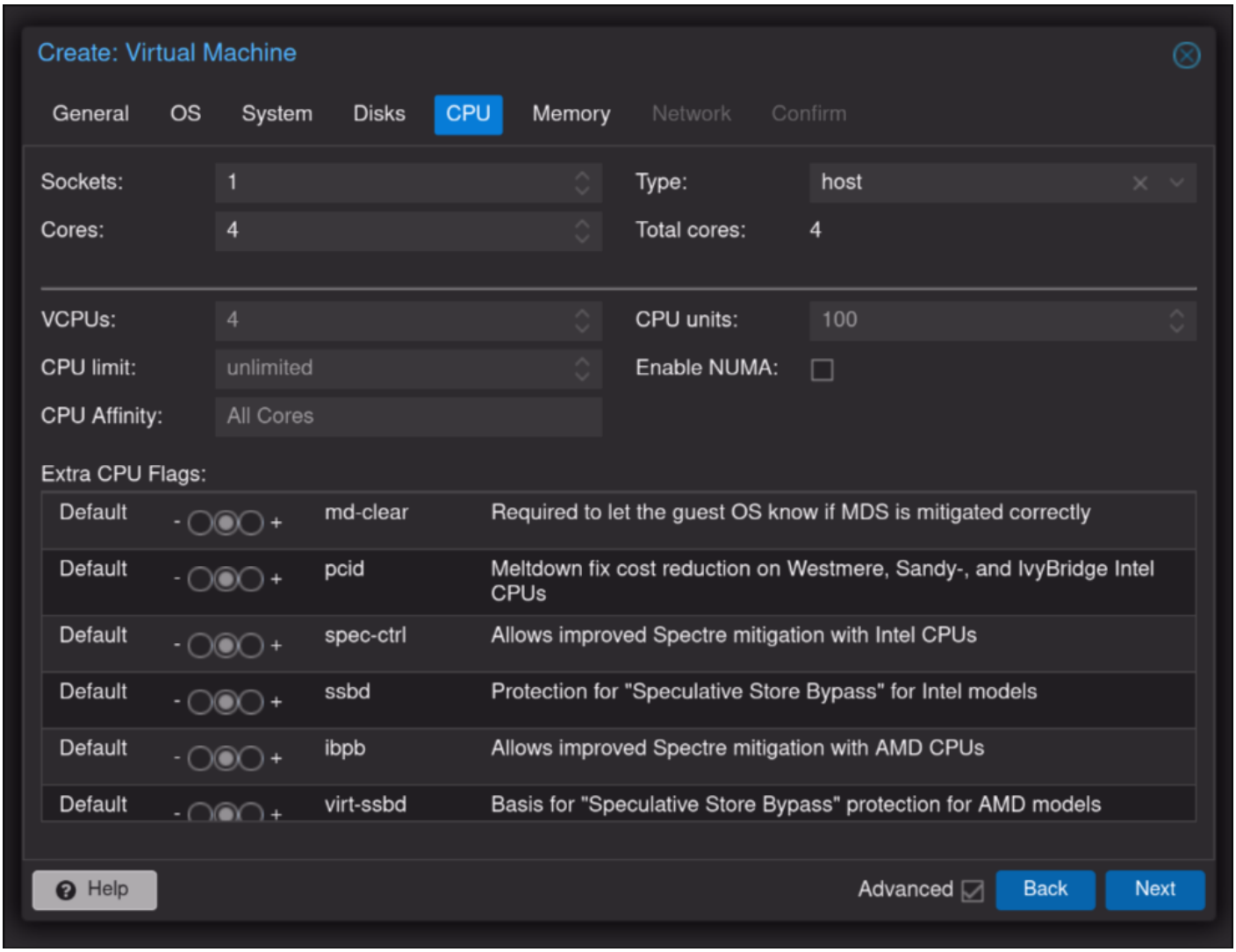
4. Change the Disk Size to the size you need and make sure to check IO thread and make sure the rest matches.



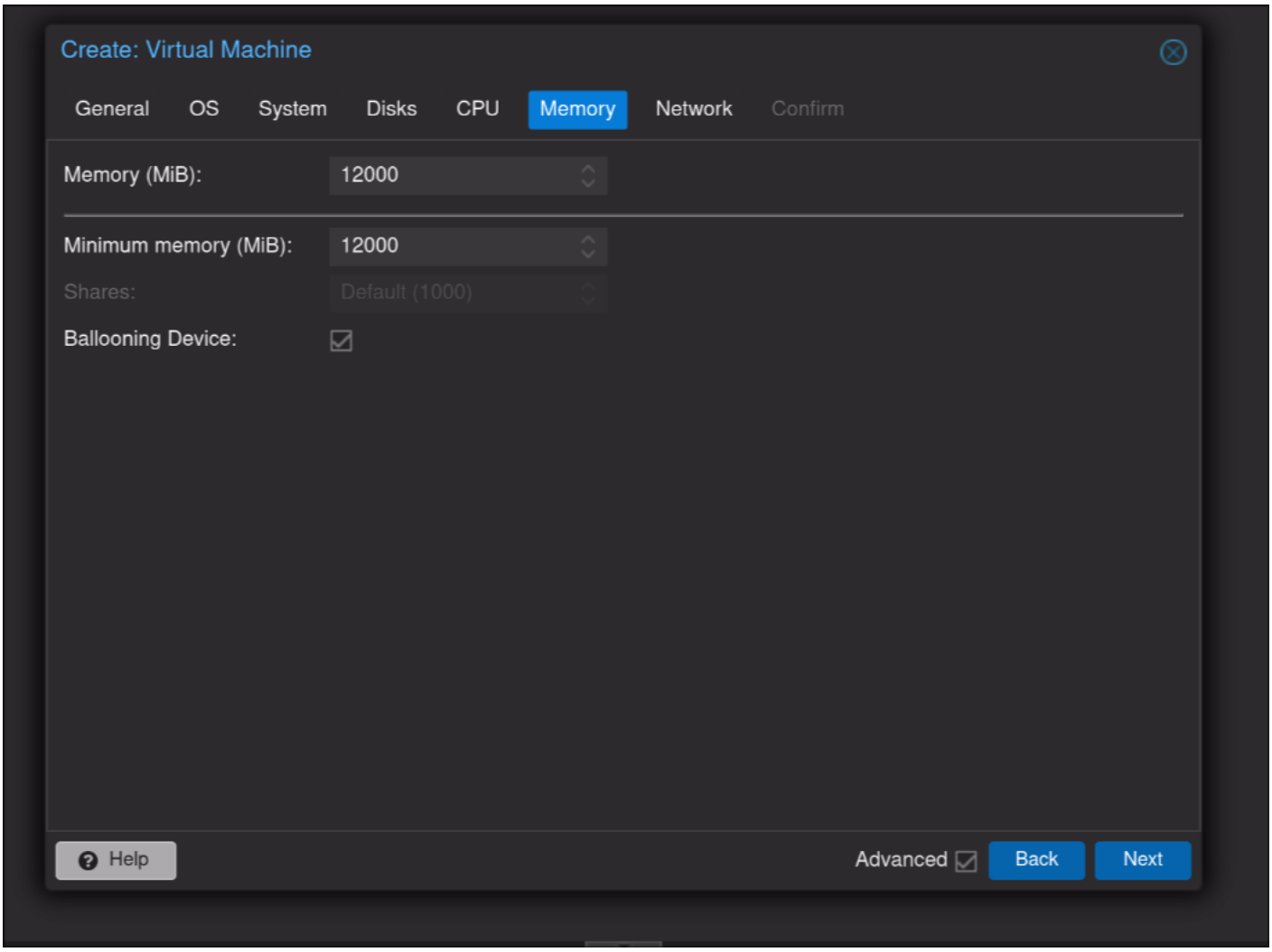
5. Choose the number of cores you will need. The rest of the settings are unchanged.

I recommend choosing **host** for the Type for most installs as a single node VM.

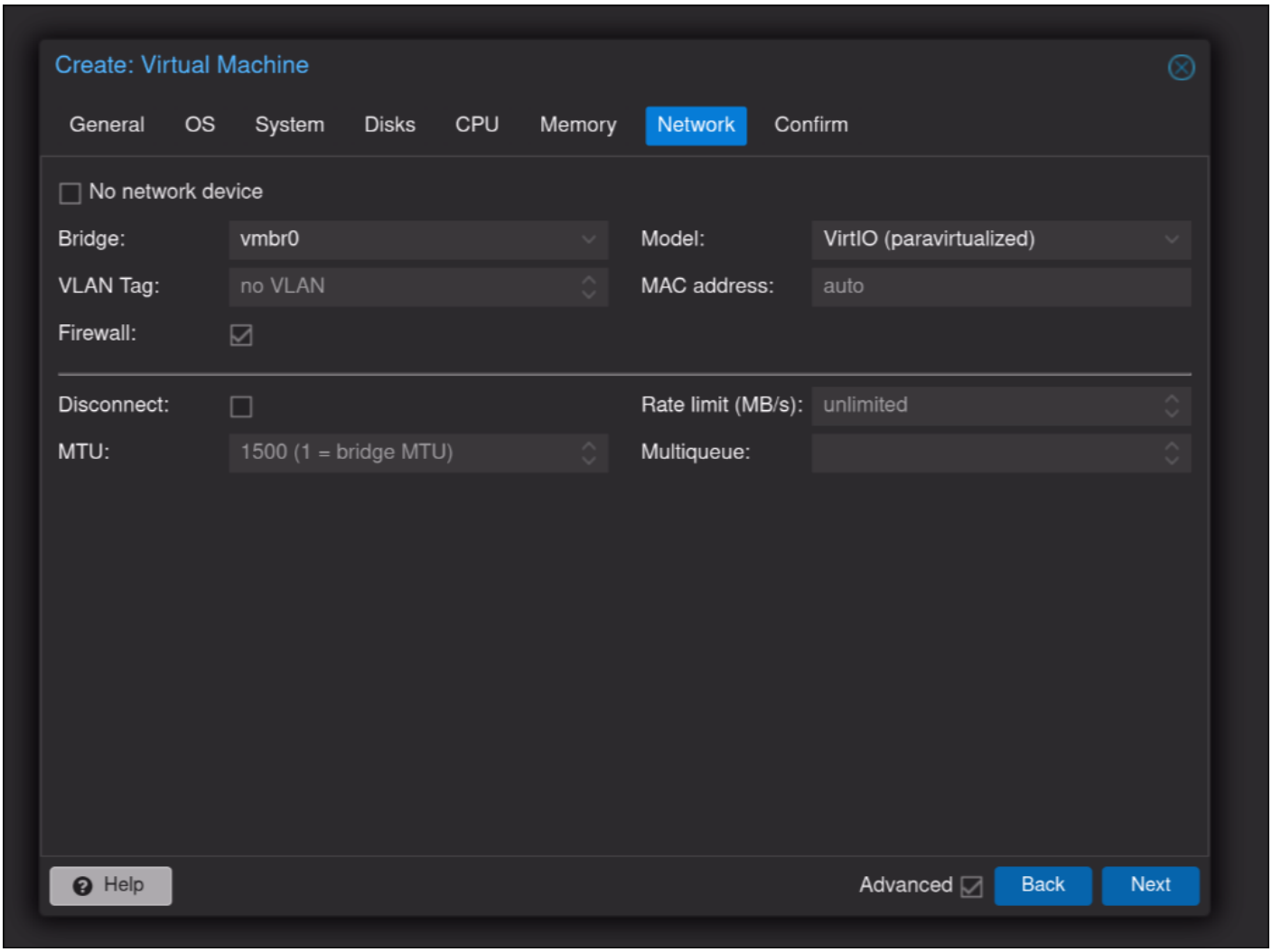
If you plan on needing to use it live migration or using it on multiple nodes I would choose something like x86-64-v2-AES. Documentation and Details Here under the CPU Type section.



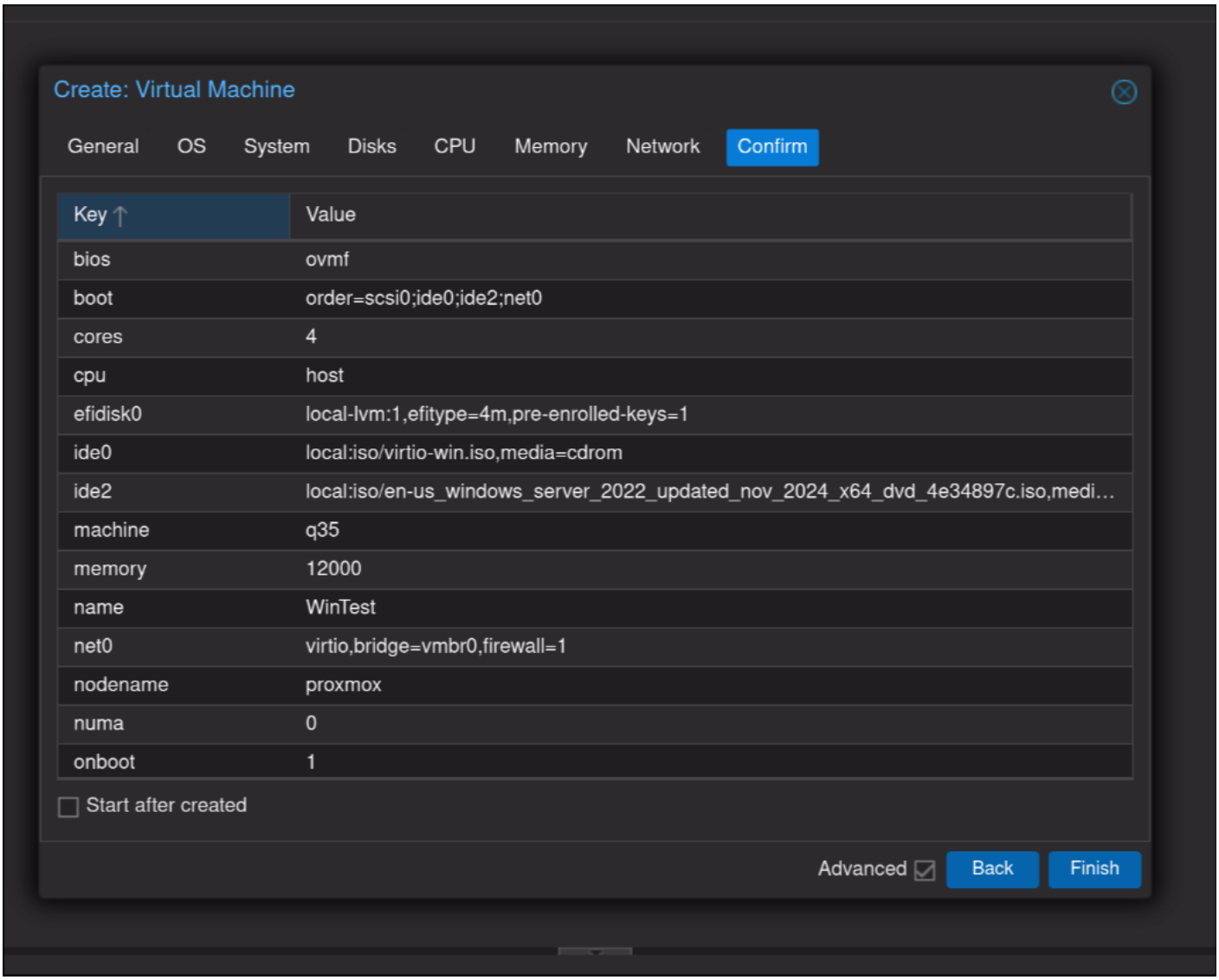
6. Choose Memory



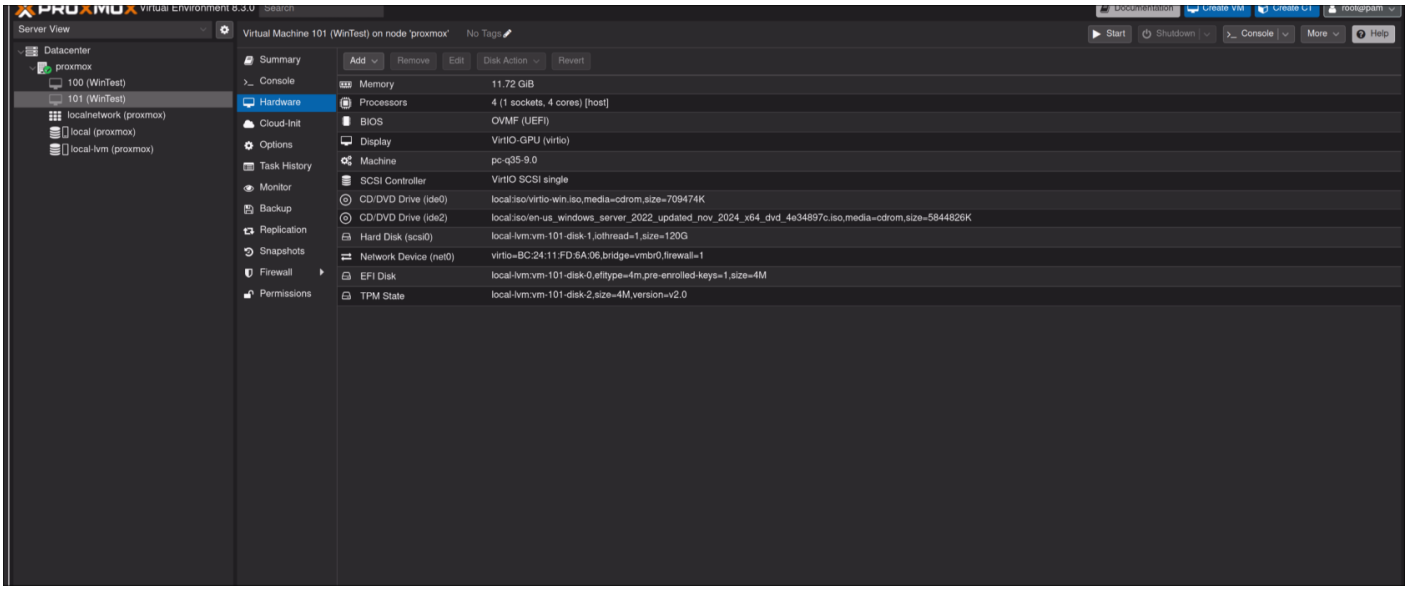
7. Pick a network interface and VirtIO as the model


Create: Virtual Machine
General
OS
System
Disks
CPU
Memory
Network
Confirm
No network device
Bridge:
vmbr0
Model:
VirtIO (paravirtualized)
VLAN Tag:
no VLAN
MAC address:
auto
Firewall:
Disconnect:
Rate limit (MB/s):
unlimited
MTU:
1500 (1 = bridge MTU)
Multiqueue:
Help
Advanced
Back
Next

8. Finish

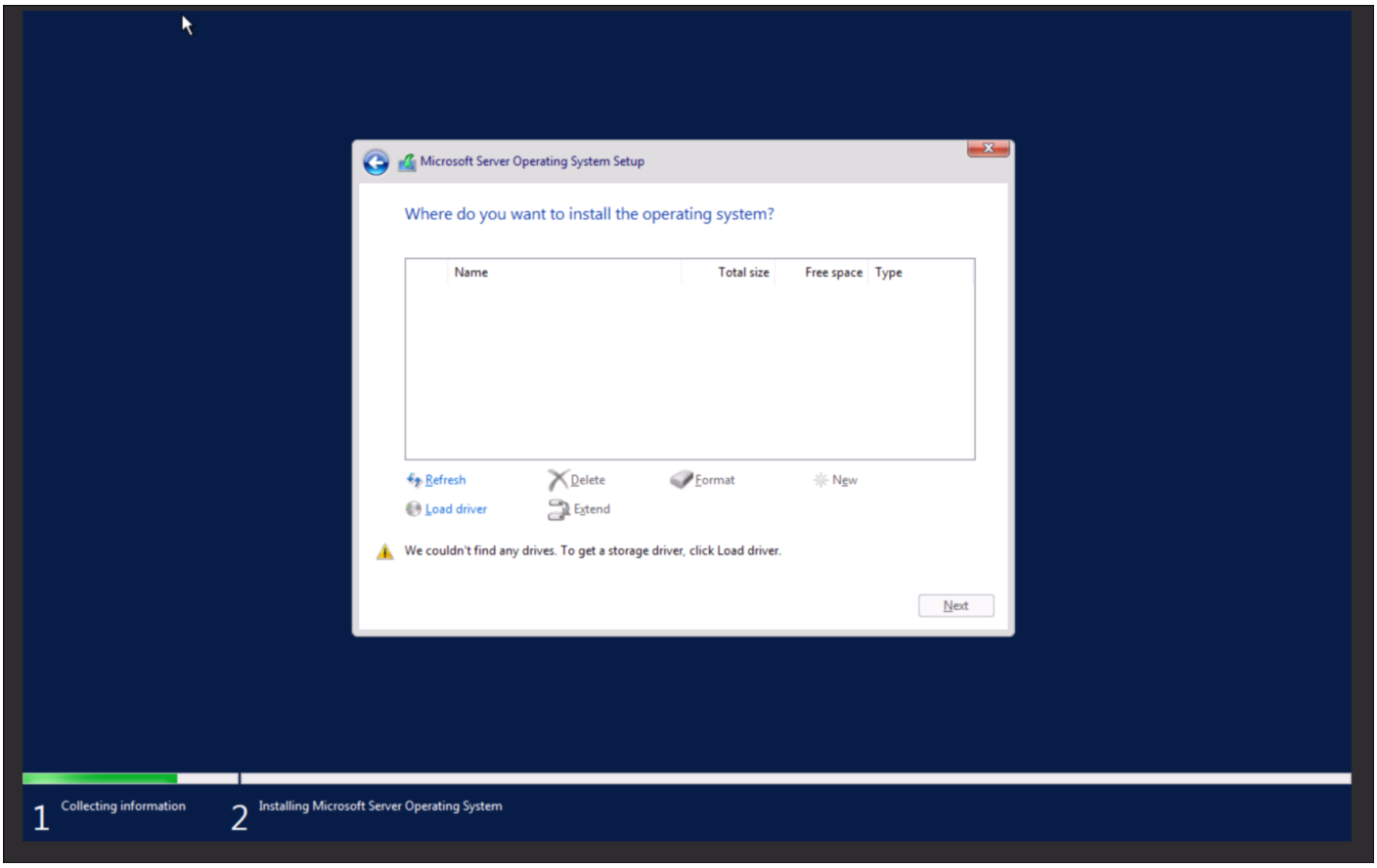


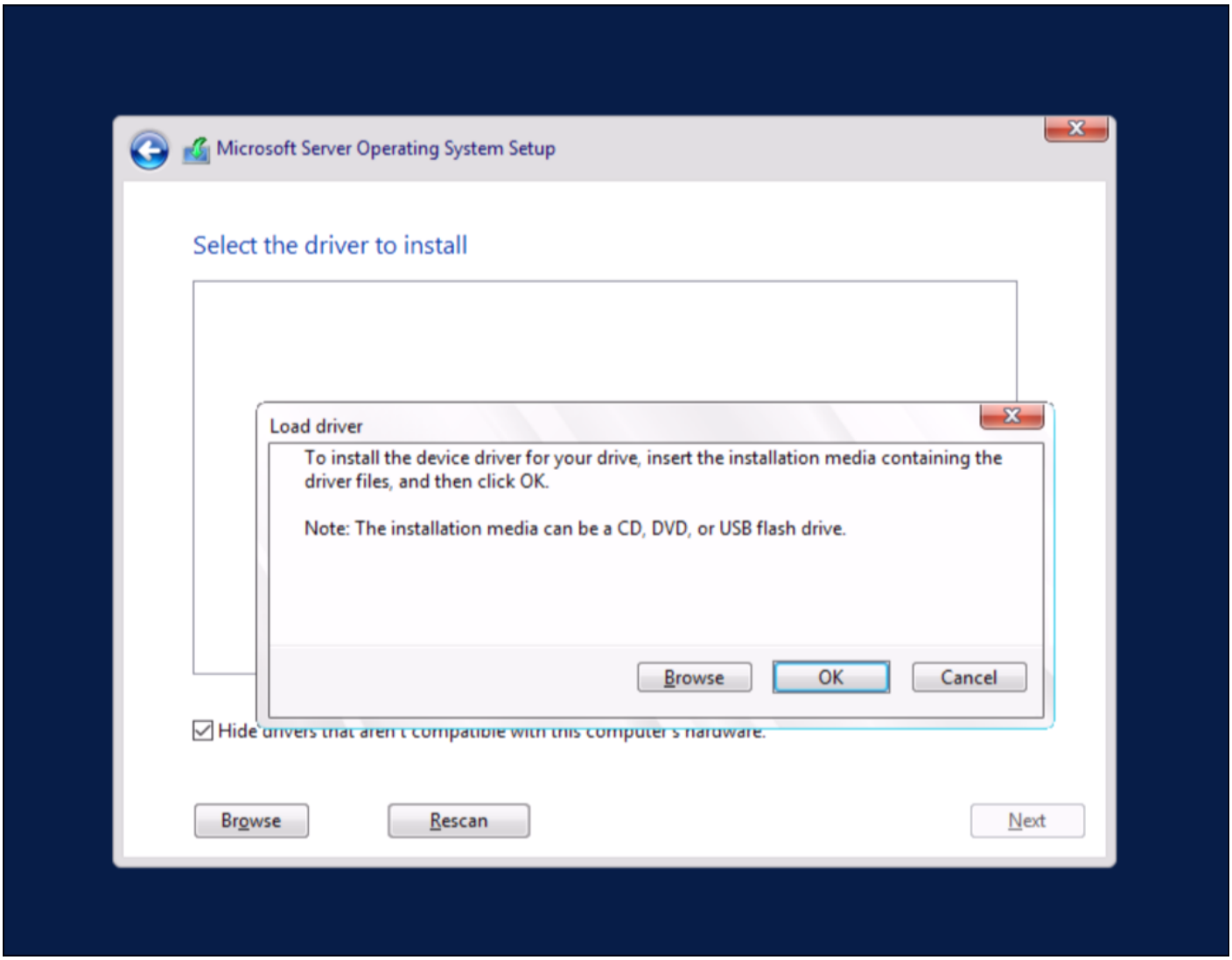
9. Choose the VM in the left and then Click the little arrow next to console and choose NoVNC to see the VM

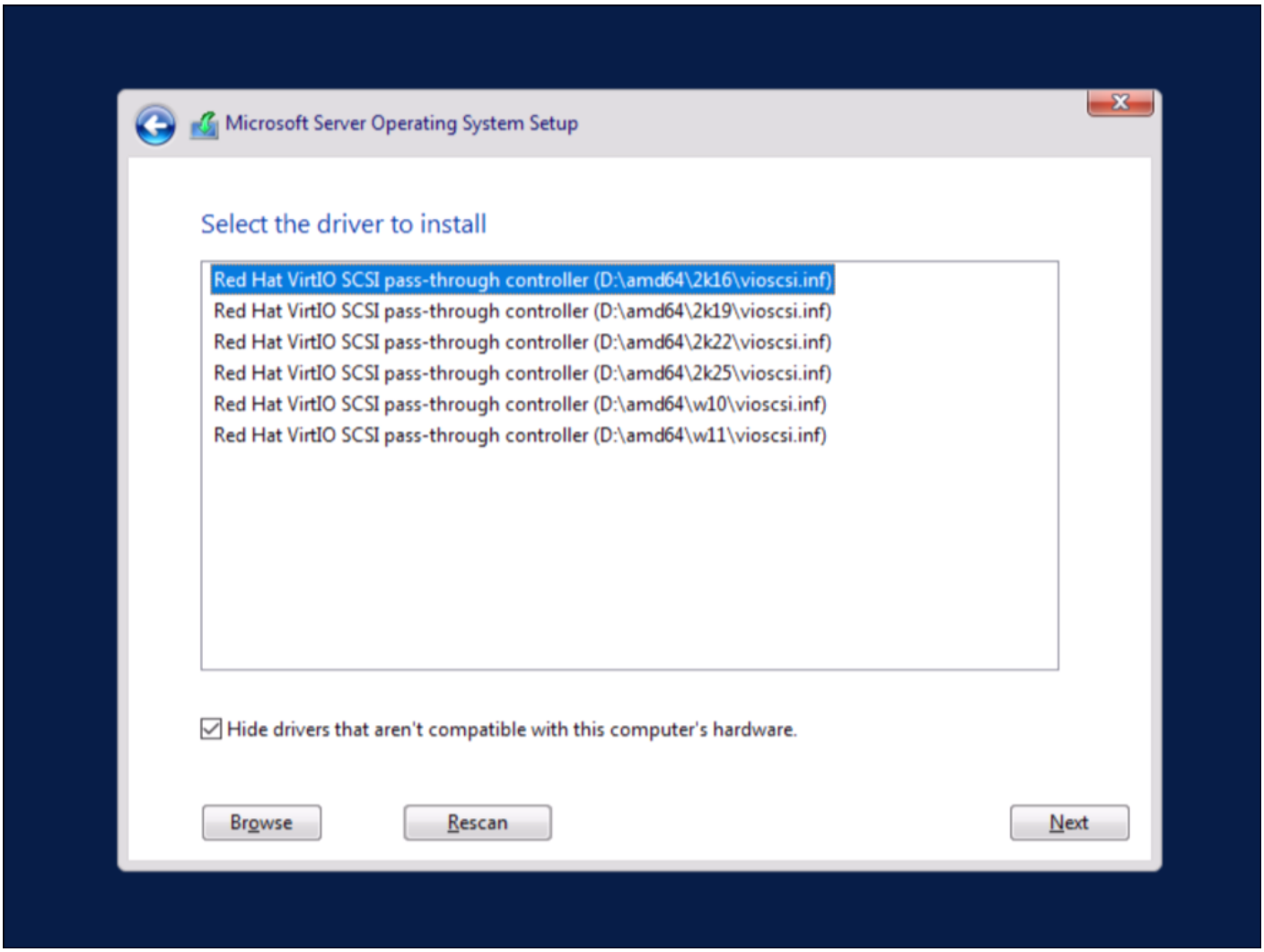


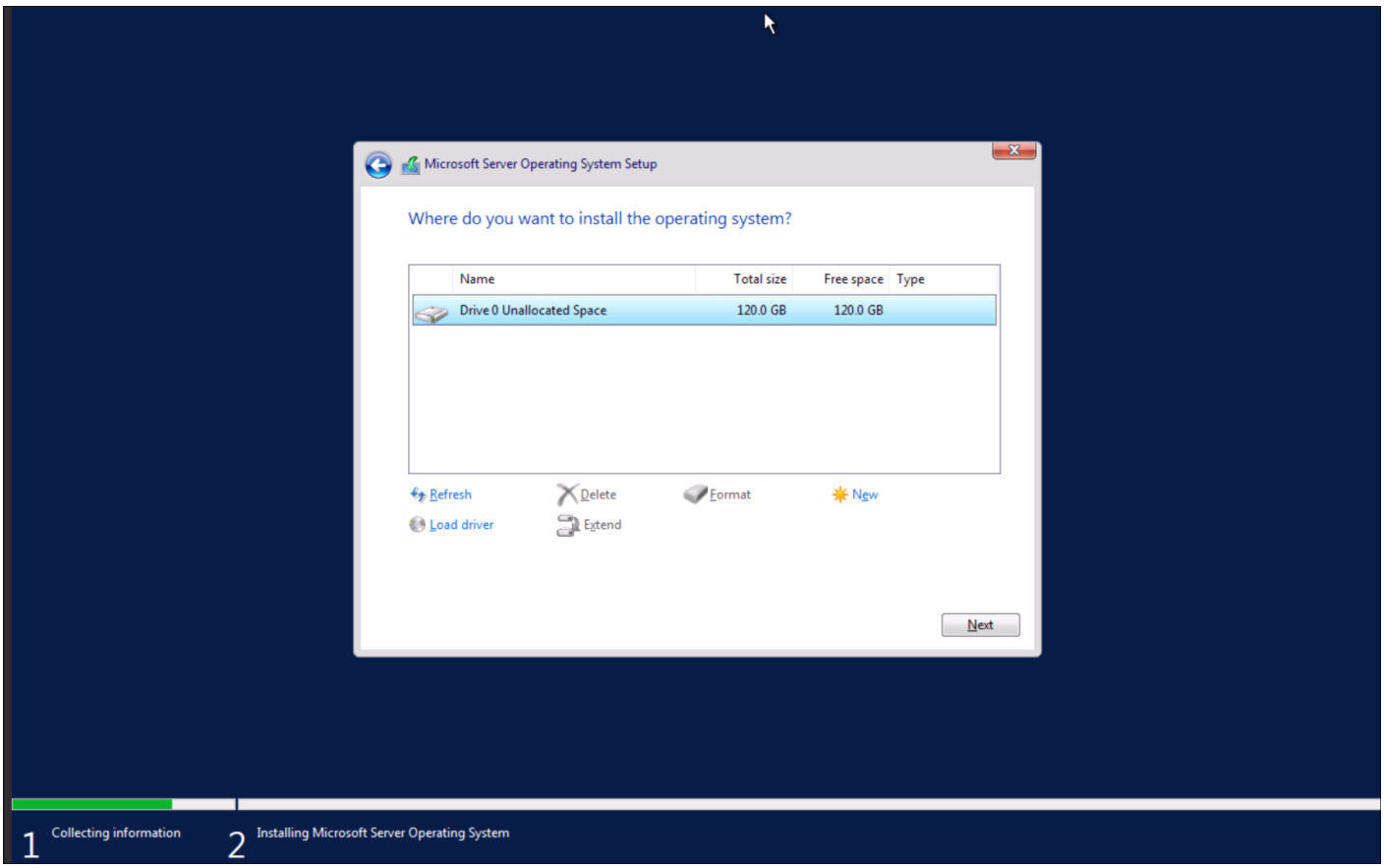
10. Start the VM. If it does not load the windows boot media hard restart the VM and spam the Enter key until it boots to windows.

11. Follow through with the standard windows install. When you choose a disk make sure to choose **Load Driver** and then press OK. Any of the options should work. You can now pick the drive.


Microsoft Server Operating System Setup
Where do you want to install the operating system?
Name
Total size
Free space
Type
Refresh
Delete
Format
New
Load driver
Extend
We couldn't find any drives. To get a storage driver, click Load driver.
Next
1
Collecting information
2
Installing Microsoft Server Operating System


Microsoft Server Operating System Setup
Select the driver to install
Load driver
To install the device driver for your drive, insert the installation media containing the driver files, and then click OK.
Note: The installation media can be a CD, DVD, or USB flash drive.
Browse
OK
Cancel
Hide drivers that aren't compatible with this computer's hardware.
Browse
Rescan
Next


Microsoft Server Operating System Setup
Select the driver to install
Red Hat VirtIO SCSI pass-through controller (D:\amd64\2k16\vioscsi.inf)
Red Hat VirtIO SCSI pass-through controller (D:\amd64\2k19\vioscsi.inf)
Red Hat VirtIO SCSI pass-through controller (D:\amd64\2k22\vioscsi.inf)
Red Hat VirtIO SCSI pass-through controller (D:\amd64\2k25\vioscsi.inf)
Red Hat VirtIO SCSI pass-through controller (D:\amd64\w10\vioscsi.inf)
Red Hat VirtIO SCSI pass-through controller (D:\amd64\w11\vioscsi.inf)
Hide drivers that aren't compatible with this computer's hardware.
Browse
Rescan
Next


Microsoft Server Operating System Setup
Where do you want to install the operating system?
Name
Total size
Free space
Type
Drive 0 Unallocated Space
120.0 GB
120.0 GB
Refresh
Delete
Format
New
Load driver
Extend
Next
1 Collecting information
2 Installing Microsoft Server Operating System

12. Continue with the windows install. After logging in go to the VirtIO Drive and run the **virtio-win-guest-tools**. Click next through all the dialogue. Restart after finishing