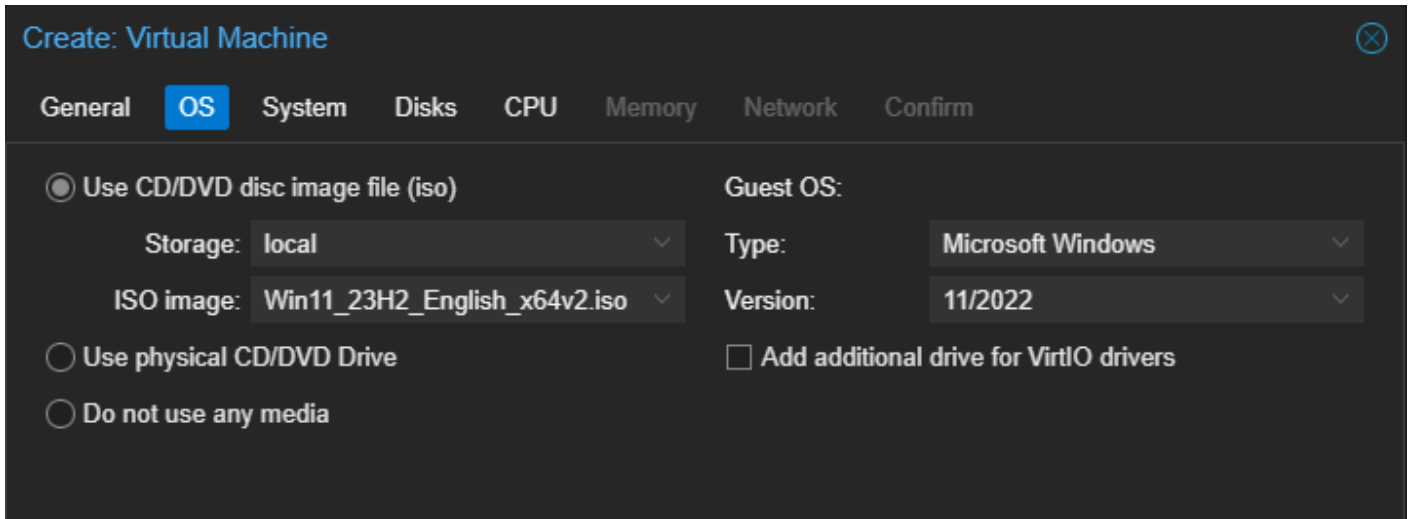


Proxmox VMs for Users

Use, the following configurations to set up VMs for Windows 11 on Proxmox...

Name your machine, then move on to Operating System:



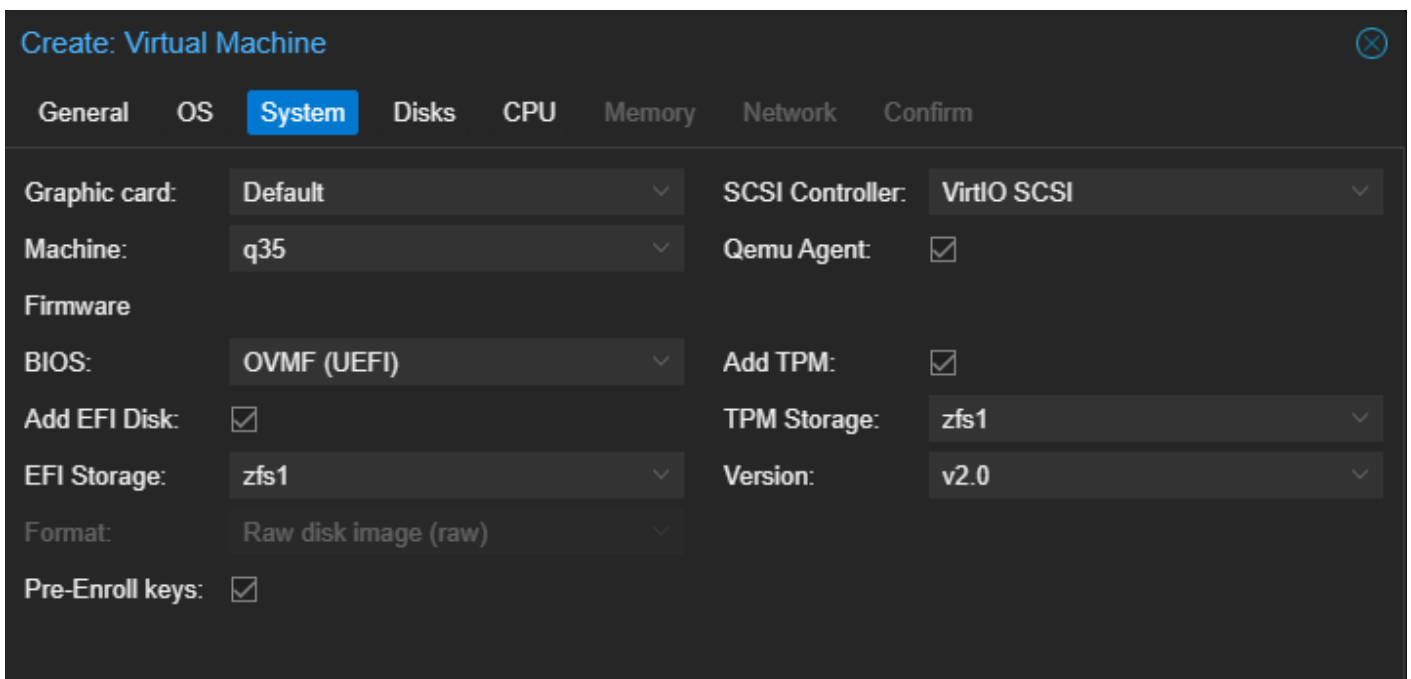
The screenshot shows the 'Create: Virtual Machine' window with the 'OS' tab selected. The 'General' tab is also visible. The 'OS' tab contains the following options:

- ☒ Use CD/DVD disc image file (iso)
 - Storage: local
 - ISO image: Win11_23H2_English_x64v2.iso
- ☐ Use physical CD/DVD Drive
- ☐ Do not use any media

Guest OS settings:

- Guest OS: Microsoft Windows
- Type: 11/2022
- ☐ Add additional drive for VirtIO drivers

- Select your ISO and change the Type and Version accordingly.



The screenshot shows the 'Create: Virtual Machine' window with the 'System' tab selected. The 'General' and 'OS' tabs are also visible. The 'System' tab contains the following options:

- Graphic card: Default
- Machine: q35
- Firmware
 - BIOS: OVMF (UEFI)
 - Add EFI Disk: ☒
 - EFI Storage: zfs1
 - Format: Raw disk image (raw)
 - Pre-Enroll keys: ☒
- SCSI Controller: VirtIO SCSI
- Qemu Agent: ☒
- Add TPM: ☒
- TPM Storage: zfs1
- Version: v2.0

- Select q35, OVMF, and QEMU agent.
- More importantly, make sure you select VirtIO SCSI

Next, configure Disks:

Create: Virtual Machine ✕

General OS System **Disks** CPU Memory Network Confirm

virtio0 🗑️

Disk Bandwidth

Bus/Device: **VirtIO Block** ▼ **0** ↕ Cache: **Default (No cache)** ▼

Storage: **local-zfs** ▼ Discard: ☐

Disk size (GiB): **64** ↕ IO thread: ☒

Format: **Raw disk image (raw)** ▼

SSD emulation: ☐ Backup: ☒

Read-only: ☐ Skip replication: ☐

Async IO: **Default (io_uring)** ▼

- Make sure you select VirtIO Block as BUS device. Everything else can remain as default.

After configuring your CPU and Memory, configure your network as follows:

Create: Virtual Machine ✕

General OS System Disks CPU Memory **Network** Confirm

☐ No network device

Bridge: **vmbr0** ▼ Model: **VirtIO (paravirtualized)** ▼

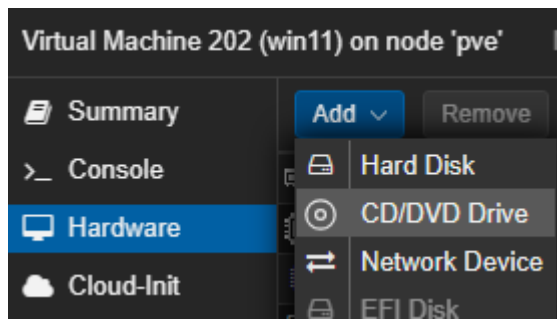
VLAN Tag: **no VLAN** ↕ MAC address: **auto**

Firewall: ☒

Disconnect: ☐ Rate limit (MB/s): **unlimited** ↕

MTU: **1500 (1 = bridge MTU)** ↕ Multiqueue: ↕

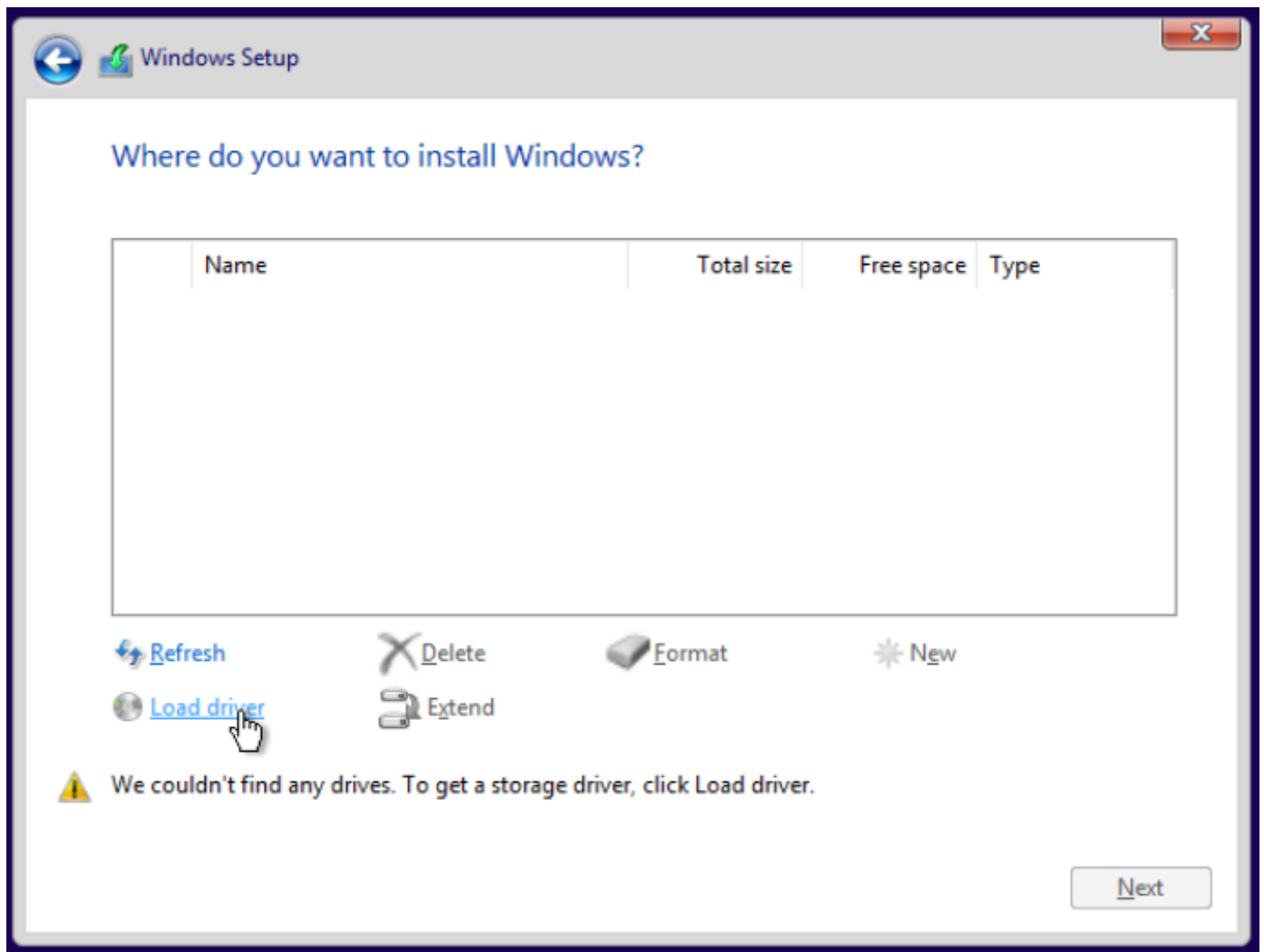
- Before starting your machine, you need to add the VirtIO driver as a CD/DVD. To do this, navigate to Hardware ---> Add ---> CD/DVD



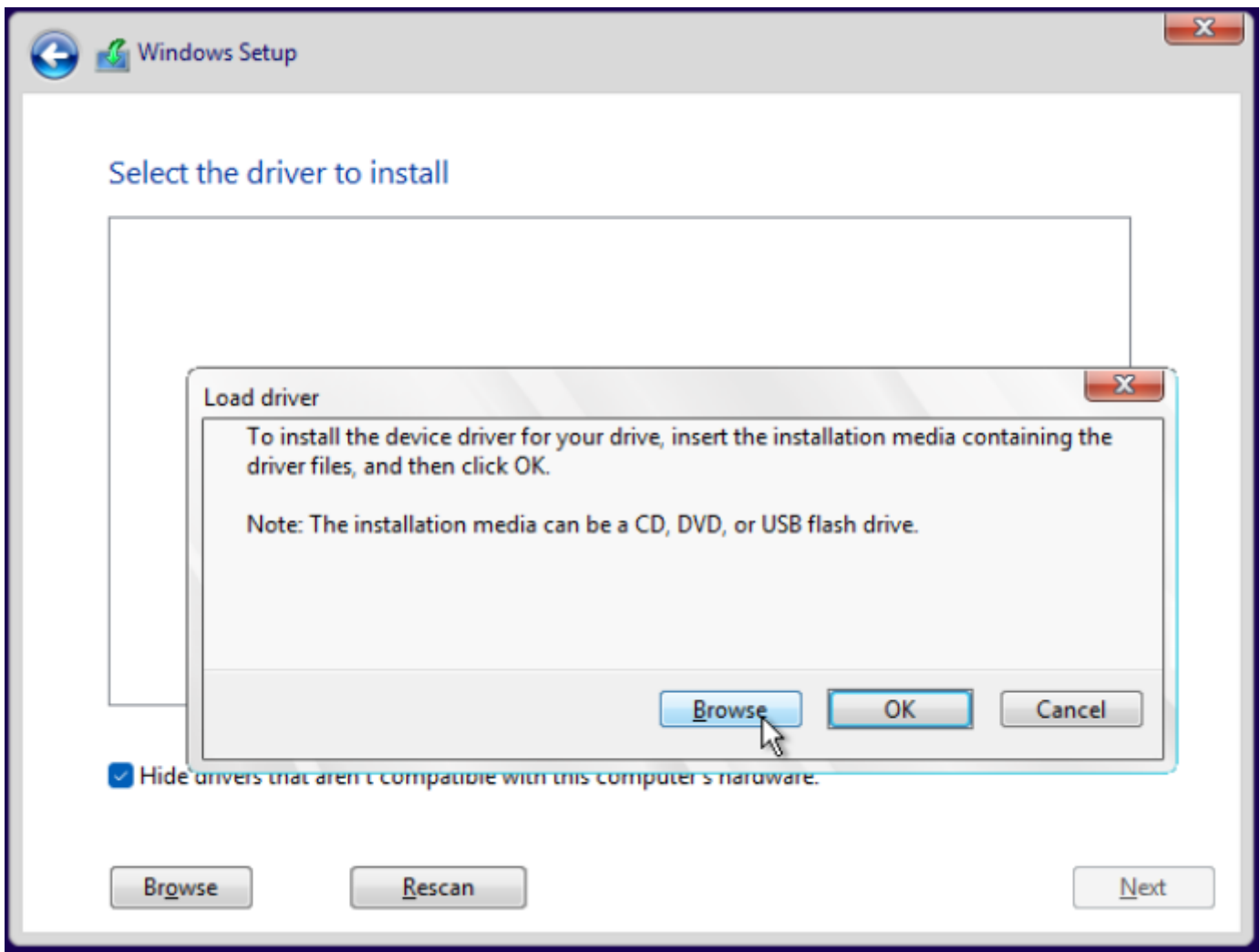
You can now boot up the machine. You should see the default Windows Installer Pop Up:



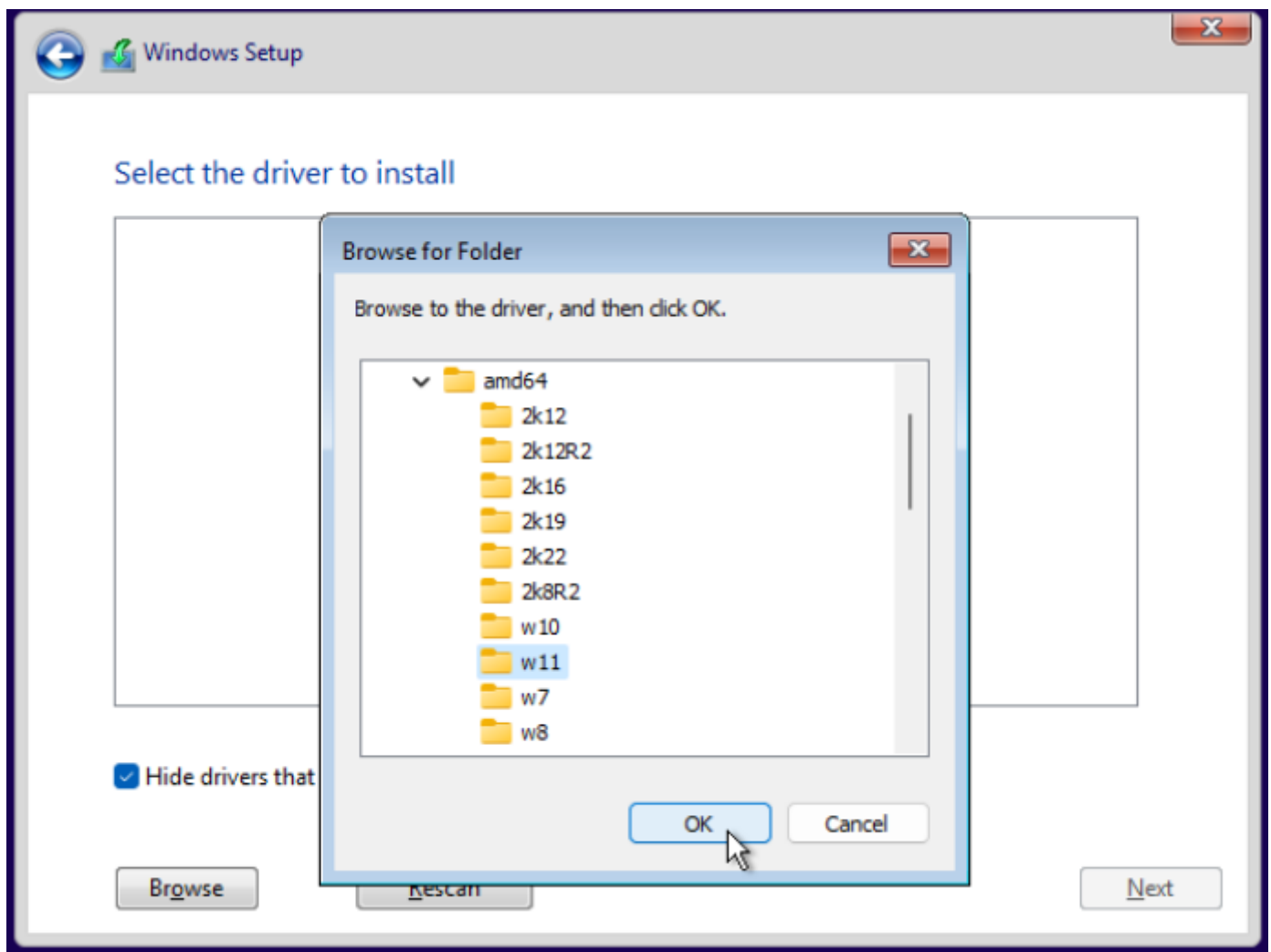
Select "I don't have a product key" and walk through the default setup. Once you reach the Installation Type, select Custom Install, then Load Driver:



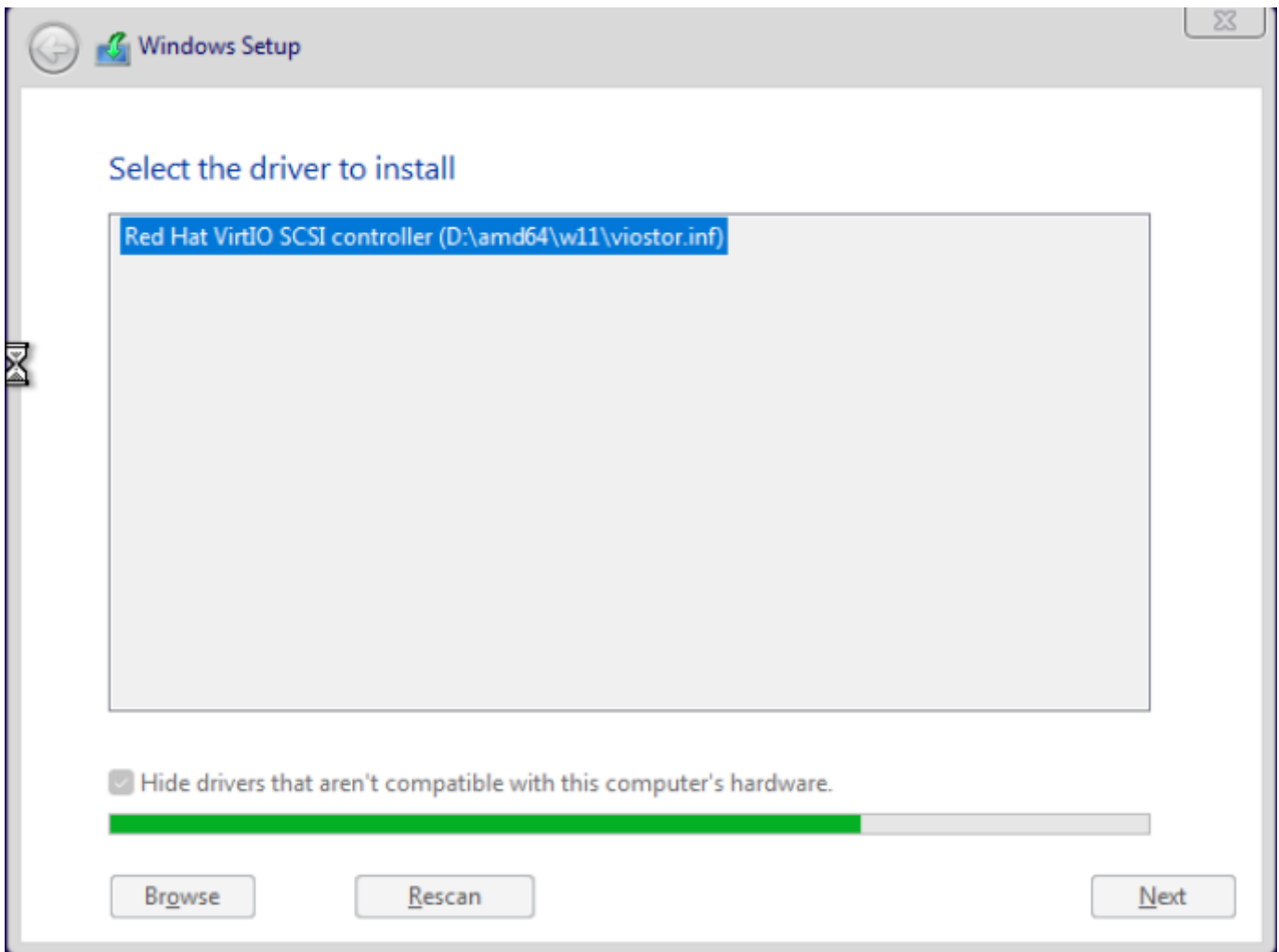
Select "Browse":



Select your VirtIO CD ---> amd64 ---> w11:

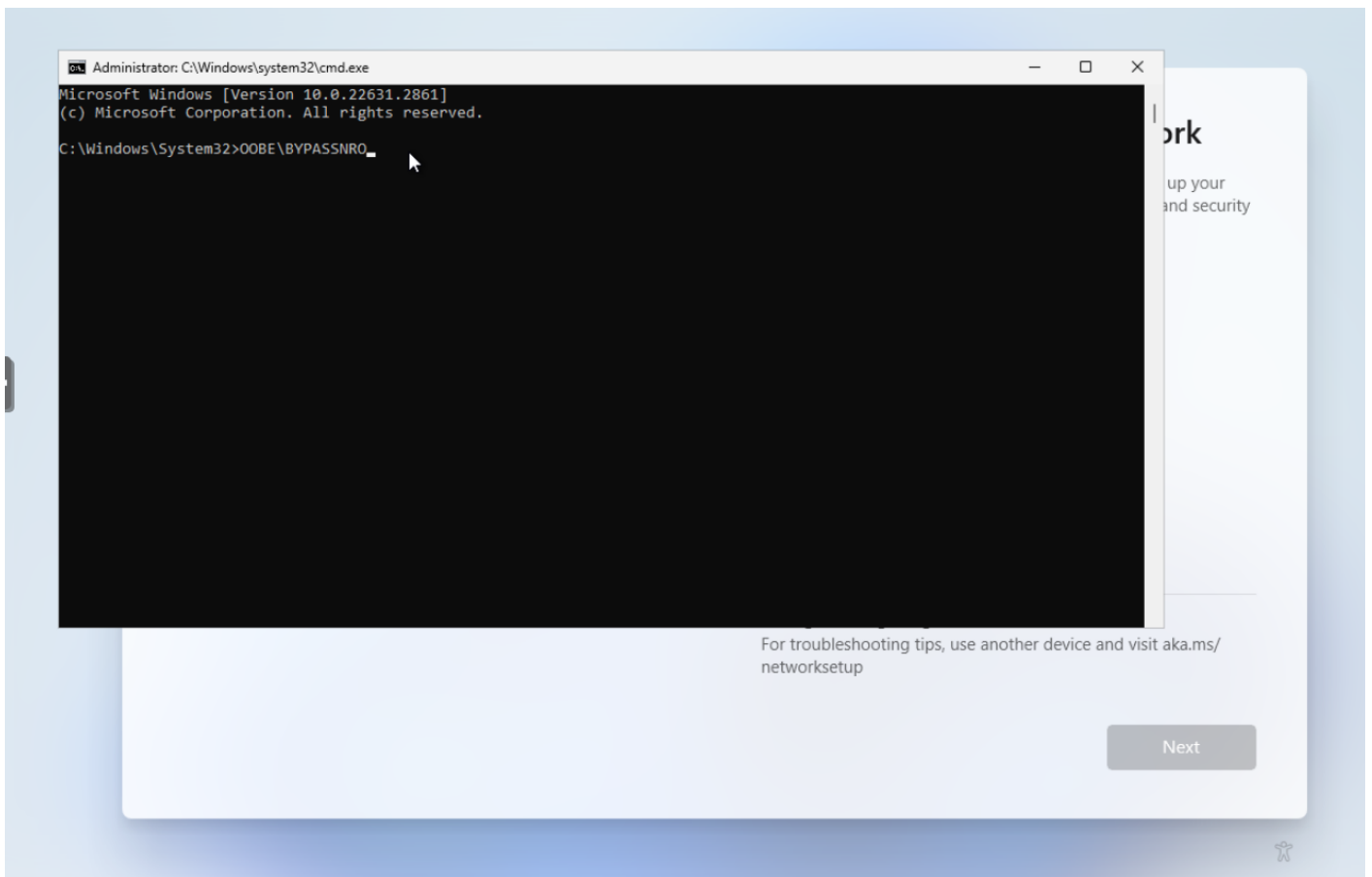


Install the RedHat driver:



Continue through the set up and create a User for this machine. I'll be creating 4 VMs total, and this one will be User2.

When setting up your machine, you'll be asked to connect to the network. To bypass this enter the following in CMD prompt:



- To get to CMD prompt, click SHIFT + F10
- You should now be able to select "I don't have internet" as an option:

Let's connect you to a network

You'll need an internet connection to continue setting up your device. Once connected, you'll get the latest features and security updates.

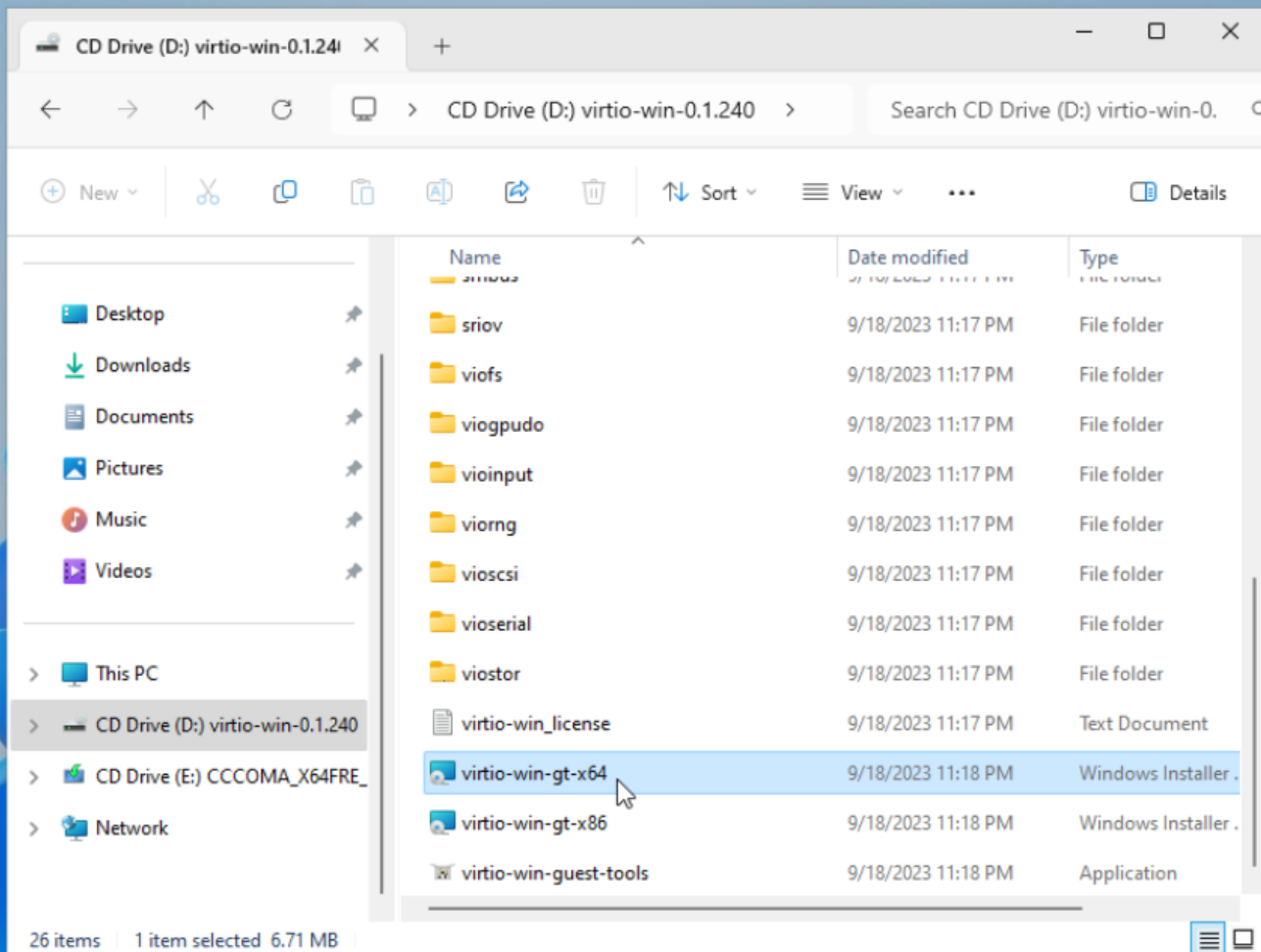


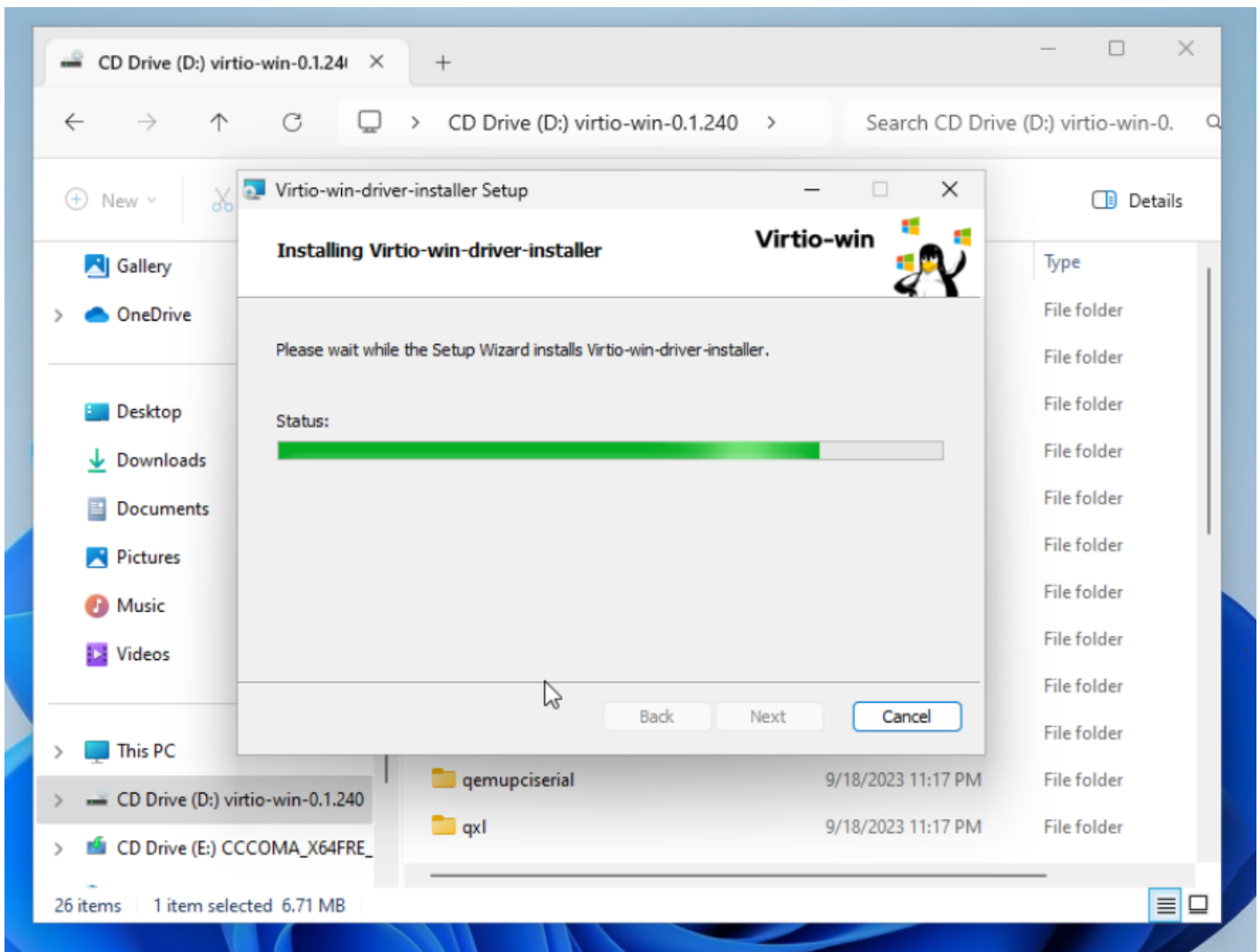
I don't have internet

Next



Almost Done! Let your Device Finish Setting Up and then log in and open up File Explorer. Select your VirtIO drive and run the installer to install all components:





After finishing the install, you should now be connected to the internet. To verify this, navigate to your router (OPNsense in my case) and check to see if your computer is being assigned an IP.

Interface	IP Address	MAC Address	Hostname	Description
homeLAB1	192.168.2.10	e0:46:ee:20:e5:93 <i>NETGEAR</i>		
homeLAB1	192.168.2.17	bc:24:11:51:35:a7 <i>Proxmox Server Solutions GmbH</i>	docker-hl	
homeLAB1	192.168.2.24	bc:24:11:e9:76:de <i>Proxmox Server Solutions GmbH</i>	user1	
homeLAB1	192.168.2.25	bc:24:11:c6:f9:f2 <i>Proxmox Server Solutions GmbH</i>	DESKTOP-CB6TI42	
homeLAB1	192.168.2.100	bc:24:11:f2:7d:f6 <i>Proxmox Server Solutions GmbH</i>	Windows-Server-2022- DC	

- You can see that my VM now has an IP of 192.168.2.25
 - There are several other ways to check the internet connection. I did this so I could assign static IP and change the DNS route to point this machine to my Domain Controller so that I could add it to a Workgroup.
- You're all set, don't forget to update your Windows VM!

Revision #3

Created 28 March 2024 04:46:54 by Austin

Updated 28 March 2024 05:36:29 by Austin