Installing Proxmox VE 8.2 on a Standalone GPU Passthrough Server

Date: June 1st, 2025
Category: Virtualization / Proxmox Deployment
Backlink: Project: Proxmox Standalone GPU Passthrough Server Build

---

Requirements

- Proxmox VE 8.2 ISO Installer
- Bootable USB creation tool (Etcher or Rufus)
- At least 1 NVMe SSD (recommended Gen4 for performance)
- BIOS configured for UEFI boot, IOMMU, virtualization, and passthrough (see backlink for full BIOS setup)

Step 1: Download and Flash Proxmox ISO

1. Go to Proxmox Downloads
2. Download the latest ISO: `proxmox-ve_8.2-1.iso` (or newer)
3. Use **Balena Etcher** or **Rufus** to flash it to a USB drive
   - Select ISO
   - Select USB
   - Click **Flash**

Step 2: Install Proxmox VE

1. Boot from the USB using **UEFI Boot Mode**
2. Select **Install Proxmox VE** from the menu
3. Accept license agreement
4. Choose the **Gen4 NVMe** (Kioxia in this case) as the target disk
5. Configure:
   - Region & Timezone
   - Strong root password & email
   - Hostname (e.g. `proxmox-node2.local`)
   - Static IP address (e.g. `192.168.1.101`) or use DHCP for testing

Step 3: First Boot and Web GUI Access

- Remove the USB when prompted
- Log into the Proxmox web GUI:

  ```
  https://<your-proxmox-ip>:8006
  ```

- Accept the self-signed certificate

Step 4: Secondary Drive (Optional)

If you have a second NVMe (like an Inland Gen3):

1. Go to `Datacenter > Disks`
2. Select `/dev/nvme1n1`
3. Wipe the disk
4. Initialize it with GPT
5. Create a new storage:
   - As **LVM-Thin** for VM disk storage
   - Or as **Directory** for ISOs/backups

Revision #3
Created 1 June 2025 13:26:54 by Nate Nash
Updated 1 June 2025 16:42:21 by Nate Nash