

# Home Lab Hardware Specifications

This section outlines the physical hardware powering my virtualization environment. It includes both compute and network components that support VM hosting, containerization, and service reliability.

## ?? Primary Host (Proxmox Node)

### pve

Primary Node for all Production VMs and CTs

- **CPU:** Intel(R) Core(TM) i7-10700 CPU @ 2.90GHz (8 Cores / 16 threads)
- **RAM:** 80GB DDR4 (2x32GB & 2x8GB DDR4 UDIMM)
- **Storage:**
  - 500GB NVMe SSD (Proxmox OS + Storage)
  - 2TB NVMe SSD (Storage)
- **Network:** 1000 Mbps Ethernet NICs
- **Power Supply:** 650W Gold-rated PSU
- **Chassis:** Dell Precision 3450 Small Form Factor

### pve1

Node for Tanium Appliance (TanOS)

- **CPU:** Intel(R) Core(TM) i7-10610U CPU @ 1.80GHz (4 Cores)
- **RAM:** 64GB DDR4
- **Storage:** 500GB NVMe SSD (Proxmox OS + Storage)
- **Network:** 1000 Mbps Ethernet NICs
- **Device:** Dell Latitude 5410

### pve2

Node for testing endpoints

- **CPU:** Intel(R) Core(TM) i5-6200U CPU @ 2.30GHz (4 Cores)
- **RAM:** 16GB DDR3
- **Storage:** 500GB SATA SSD (Proxmox OS + Storage)
- **Network:** 1000 Mbps Ethernet NICs
- **Device:** ThinkPad L460

## ? Networking Equipment

- **Firewall / Router:** pfSense running on Protectli VP2410
- **Switch:** TP-Link TL-SG108E (8-Port Gigabit Smart Switch)
- **Access Point:** Ubiquiti UniFi U6-Lite (Wi-Fi 6)

## ?? Storage & Backup

- **NAS:** TrueNAS Core running on Mini-PC with:
  - Intel i5 CPU
  - 16GB RAM
  - 2x 4TB HDDs (ZFS mirror)
- **External Backup:** 2TB USB 3.0 external drive (rotated offsite weekly)

“  *Note:* This setup is optimized for cost-efficiency, power savings, and scalability, allowing me to run dozens of services simultaneously in a virtualized and containerized environment.

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