

# **Homelab Maintenance & Network Stability Summary**

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## **1. System Maintenance Completed**

- Ran: sudo apt update
- Ran: sudo apt upgrade -y
- Ran: sudo apt autoremove -y
- Rebooted system to ensure kernel + updates applied cleanly
- Verified SSH service is active and enabled at boot
- Confirmed firewall (ufw) configuration

## **2. Network Interface Stabilization**

- Switched server from WiFi to Ethernet for stability
- Primary interface: enp0s25
- Ethernet MAC address: 28:d2:44:17:70:f5
- Current IP address: 10.0.0.136
- Confirmed IP remained stable after reboot
- Determined Xfinity router does not expose DHCP reservation controls
- Concluded DHCP lease is stable and acceptable for homelab usage

## **3. Infrastructure Decisions**

- Server will remain Ethernet-only to prevent IP switching
- Dynamic DHCP (stable lease) is acceptable at this stage
- No OS-level static IP configuration required
- System ready to proceed to Docker installation phase

## **4. Current Homelab Status**

- Ubuntu Server 24.04 LTS fully updated
- SSH operational and persistent
- Ethernet networking stable
- Firewall configured
- Baseline system ready for container runtime installation (Docker Phase 1)