

Initial setup

- Setup VLANs - Interfaces → Devices → VLAN
 - Management 99
 - WiFi 20
 - WiFi guest 22
- Assign interfaces - Interfaces → Assignments → choose an interface
 - Parent : LAN
 - IPv4 config type : Static IPv4, IPv4 address 192.168.xx.1 / 24
- Navigate to System → Settings → Administration and change the TCP port field to something other than 80 or 443. Then, also check the HTTP Redirect field to disable web GUI redirect rule.
- Services:
 - ISC DHCPv4 → Interface → Enable DHCP server, specify range (x.x.x.100 to 199)

Backup

- System → Configuration → Backups

Setting Up PXE Boot with TFTP on OPNsense

1. Install and Enable the TFTP Service

- Go to **System > Firmware > Plugins** in OPNsense.
- Search for `os-tftp` and install it.
- Navigate to **Services > TFTP > General**, enable TFTP, and set the **server IP**.

2. Configure DHCP for PXE Boot

- Go to **Services > DHCPv4 > [LAN]**.
- Enable **Network Booting** and set:
 1. **Next-server IP** (the TFTP server, usually OPNsense itself).
 2. **Boot filename** (`pxelinux.0` for BIOS, `bootx64.efi` for UEFI).

3. Prepare the TFTP Server

- Upload PXE boot files to `/usr/local/tftp`.
- Ensure the correct bootloader (`pxelinux.0` or UEFI equivalents) is available.

4. Test the Configuration

- Boot a PXE-capable client.
- Verify it retrieves the bootloader from the TFTP server.

Useful Resources

- [GitHub PXE Guide for OPNsense](<https://gist.github.com/azhang/d8304d8dd4b4c165b67ab57ae7e1ede0>)
- [OPNsense Forum Discussion on PXE](<https://forum.opnsense.org/index.php?topic=25003.0>)

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