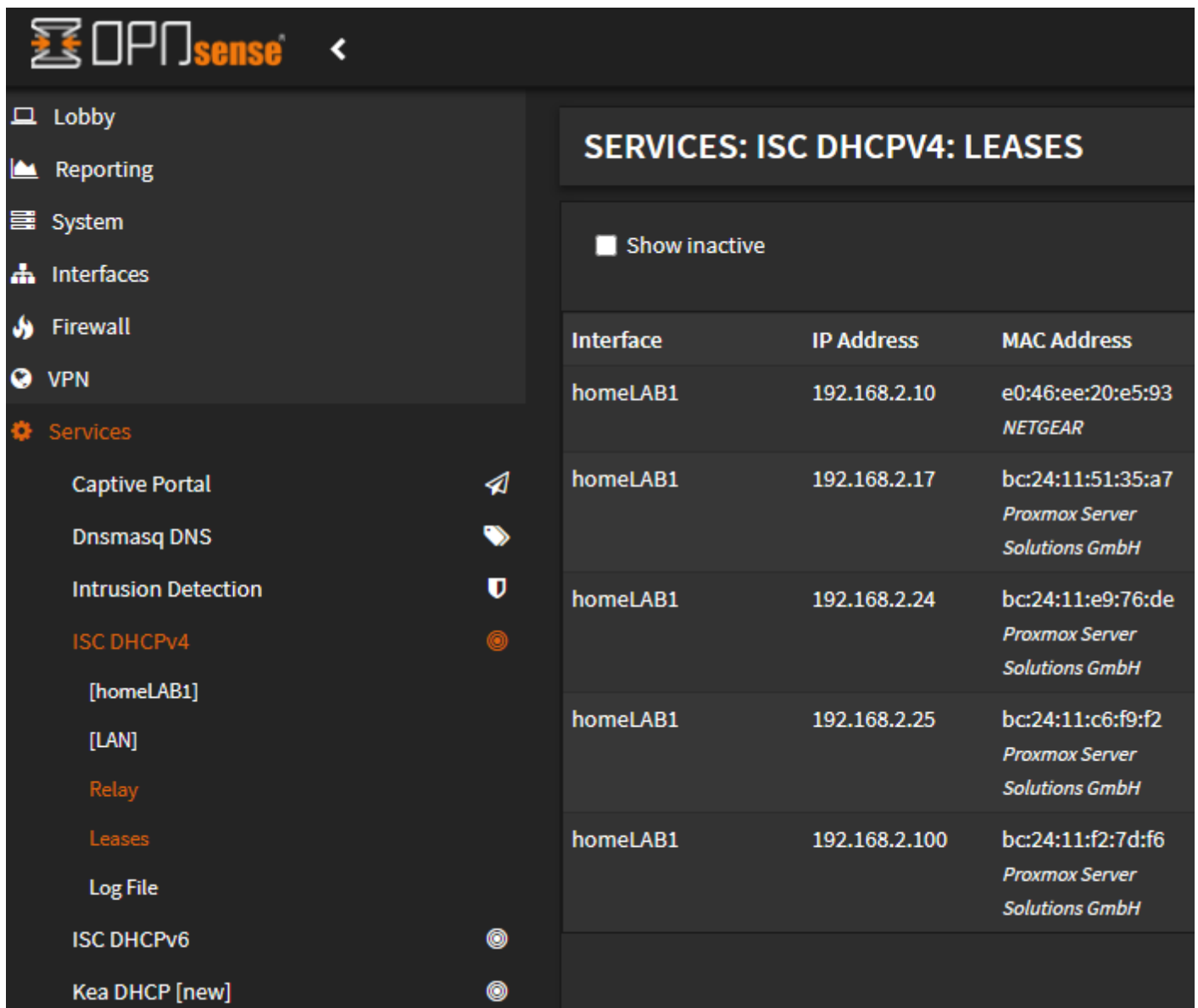


# DNS Configurations

After setting up your VM and installing Windows 11 Pro, you'll need to configure some DNS routing to make sure your VMs can reach your Domain Controller. I've done this via my OPNsense router and I'll be using "User 2" to demonstrate, Windows 11 Pro VM I've set up. To do this, I configured DNS leases for the VMs via the web GUI as follows:

Navigate to Services ---> ISC DHCPv4 ---> Leases and find the IP of your Windows 11 Pro VM:



The screenshot shows the OPNsense web interface. On the left is a navigation sidebar with the following menu items: Lobby, Reporting, System, Interfaces, Firewall, VPN, Services (highlighted), Captive Portal, Dnsmasq DNS, Intrusion Detection, ISC DHCPv4 (highlighted), [homeLAB1], [LAN], Relay, Leases (highlighted), Log File, ISC DHCPv6, and Kea DHCP [new]. The main content area is titled "SERVICES: ISC DHCPV4: LEASES" and includes a "Show inactive" checkbox. Below this is a table with three columns: Interface, IP Address, and MAC Address. The table contains six rows of lease information.

Interface	IP Address	MAC Address
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>
homeLAB1	192.168.2.24	bc:24:11:e9:76:de <i>Proxmox Server Solutions GmbH</i>
homeLAB1	192.168.2.25	bc:24:11:c6:f9:f2 <i>Proxmox Server Solutions GmbH</i>
homeLAB1	192.168.2.100	bc:24:11:f2:7d:f6 <i>Proxmox Server Solutions GmbH</i>

Next, select the "+" icon to add a static mapping:

homeLAB1	192.168.2.25	bc24:11:c6:f9:f2	user2	2024/03/28 06:05:17	2024/03/28 08:05:17	active	dynamic	+ -
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To assign a static IP, enter the IP in the IP Address box:

**IP address**

192.168.2.25

If an IPv4 address is entered, the address must be within the interface subnet.  
If no IPv4 address is given, one will be dynamically allocated from the pool.

Save and Apply Changes. You should know see the IP Assignment type change to "Static":

homeLAB1	192.168.2.25	bc24:11:c6:f9:f2	user2			active	static	
homeLAB1	192.168.2.25	bc24:11:c6:f9:f2	user2	2024/03/28 06:05:17	2024/03/28 08:05:17	active	dynamic	+ -

You may note that there are now 2 listings for the same device. We now need to change the Adapter settings on the VM. To do this, navigate to Settings --> Network & Internet ---> Advanced Network Settings. Select "Edit" next to More Adapter Options:

## Network & internet > Advanced network settings

**Network adapters**

**Ethernet**

Network | Red Hat VirtIO Ethernet Adapter

Disable

^

---

**Media state:** Enabled

**Bytes sent:** 363,811

**Bytes received:** 1,024,439

**Link speed:** 1410 (Mbps)

**Duration:** 00:06:04

---

Rename this adapter

Rename

---

View additional properties

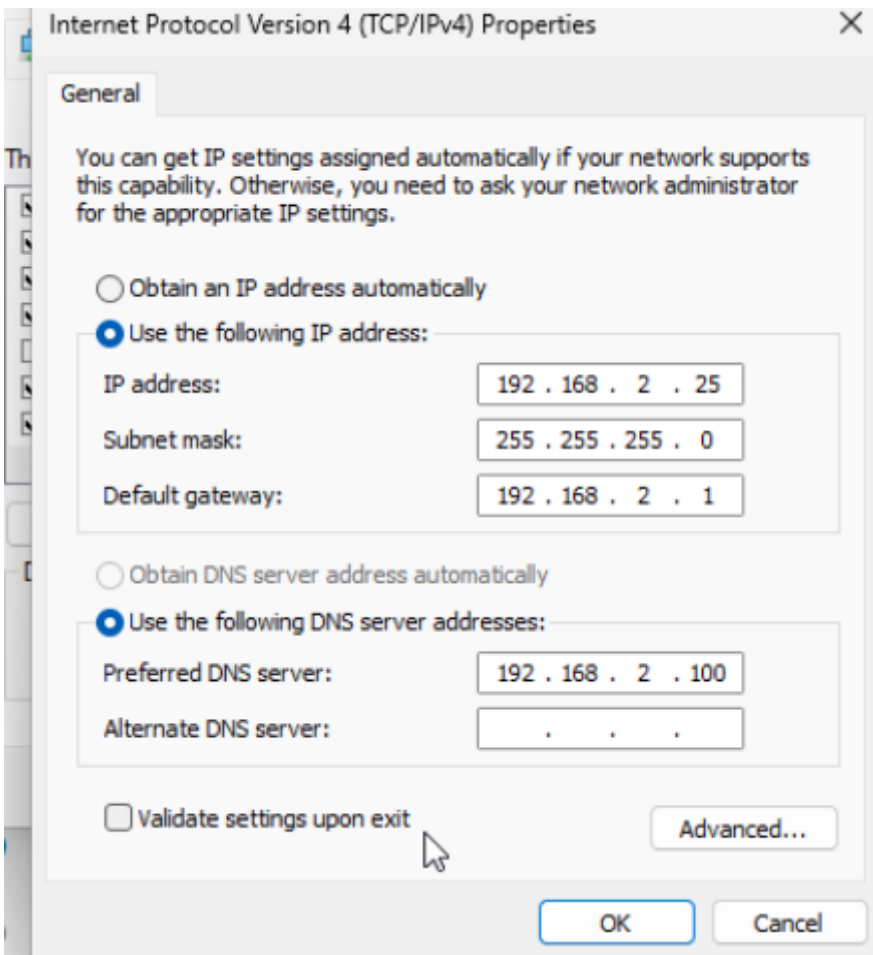
>

---

More adapter options

Edit

Select IPv4 Properties, and assign it the static IP. We'll also assign it the DNS of Domain Controller we set up earlier. My Domain Controller is at 192.168.2.100, so I'll change properties accordingly:



After making these changes, you'll see only one assignment for this VM's mac address, a static one:

homeLAB1	192.168.2.24	bc24:11:e9:76:de	user1		active	static
homeLAB1	192.168.2.25	bc24:11:c6:f9:f2	user2		active	static
homeLAB1	192.168.2.100	bc24:11:f2:7d:f6	Windows-Server-2022-DC		active	static

You're now ready to add it to your workgroup. Check the next page for how to add it!

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