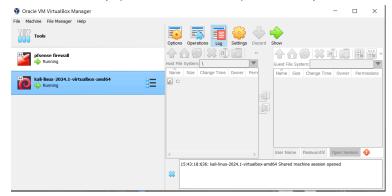
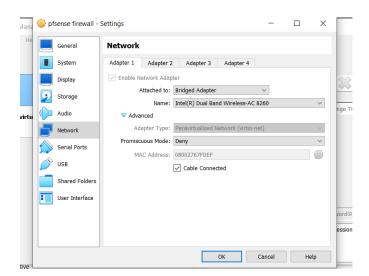
1. Install pfSense: OK, it's done

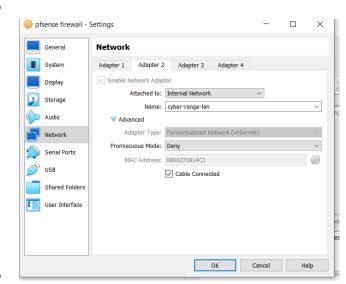
• Follow the steps outlined in the previous response "Installing pfSense on VirtualBox with DMZ Setup (Markdown Format)" to install pfSense on a VirtualBox VM.



- During installation, select the following interface assignments:
 - WAN (red): Bridged adapter connected to your internet modem.

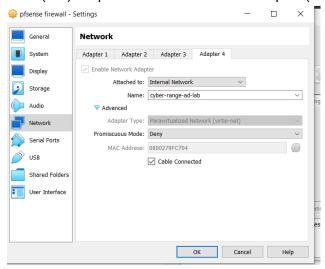


LAN (green): Internal network adapter (created within VirtualBox).



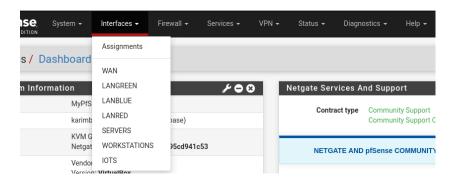
С

DMZ (red): Separate internal network adapter (created within VirtualBox)

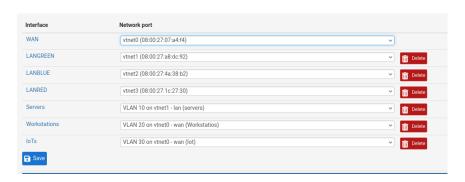


2. Configure VLANs:

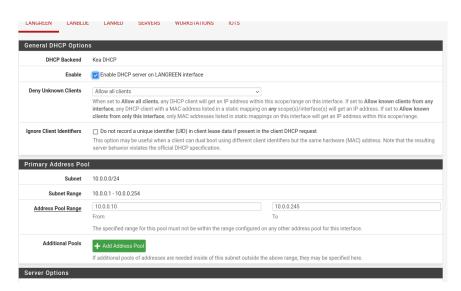
• In the pfSense web GUI, go to Interfaces > Assignments.



- Create two new VLAN interfaces:
 - o Guest (Blue): Tag it with a unique VLAN ID.
 - o DMZ (Red): Tag it with a different VLAN ID .



- Assign the Guest VLAN interface to the internal network adapter dedicated for guest devices.
- Assign the DMZ VLAN interface to the separate internal network adapter dedicated for the DMZ.



3. Configure Firewall Rules:

Go to Firewall > Rules.

- Create the following rules:
 - Deny all traffic: Block all traffic between any interface by default.
 - Allow specific traffic: Create specific rules to allow:
 - LAN to Guest: Only necessary traffic (e.g., web browsing, limited internet access).
 - Guest to LAN: Only allow specific outbound traffic (e.g., DNS lookups).
 - LAN to DMZ (optional): Only necessary traffic for exposed services.
 - DMZ to WAN (optional): Only allowed outbound traffic for the exposed services.
 - WAN to any: Block all incoming traffic by default.





