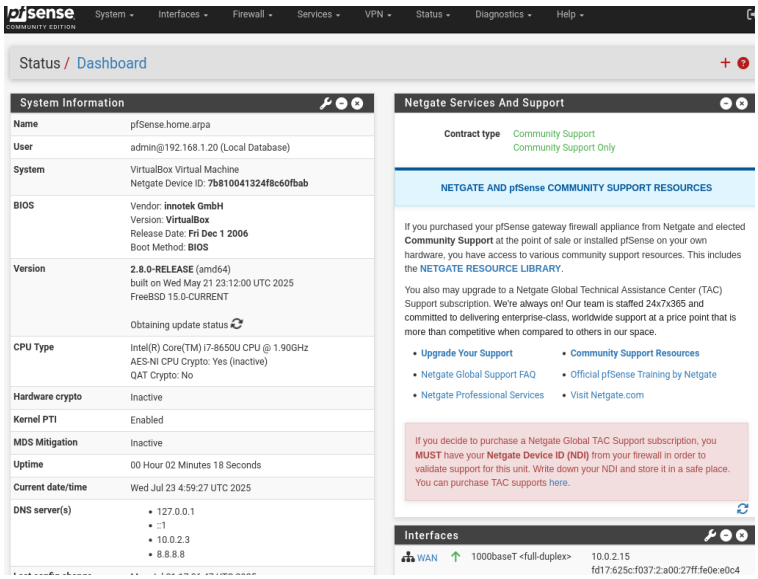
Firewall Setup and Configuration (pfSense)

➢ Introduction

In this, we will configure the pfSense firewall to secure a network by creating rules, blocking suspicious traffic, and documenting the setup using screenshots. pfSense is a powerful, open-source firewall and router software used for network protection.

• Step 1: Access pfSense Web Interface

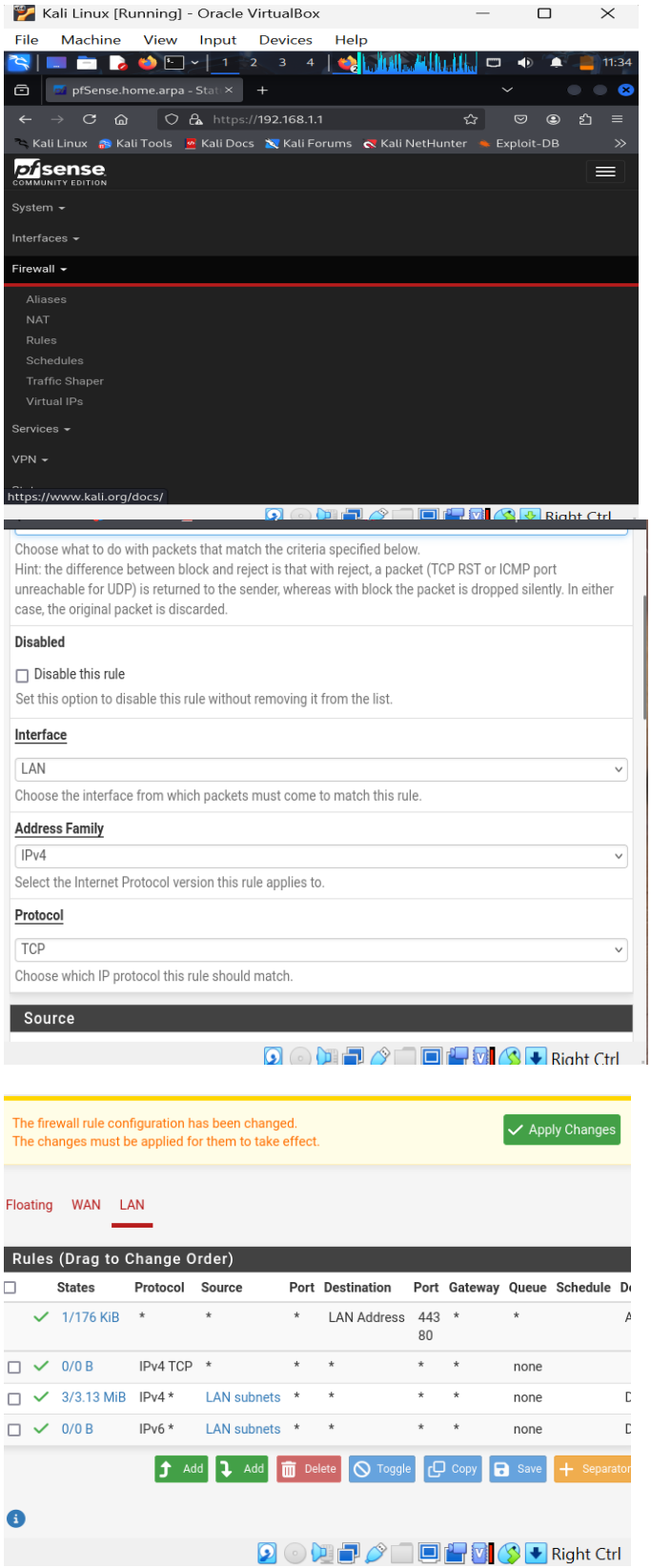
1. Open a web browser in your system.
2. Type the IP address of your pfSense system (e.g., http://192.168.1.1).
3. Enter your username and password to log in.



pfSense Dashboard after Login

• Step 2: Configure Basic Firewall Rules

1. Navigate to 'Firewall' > 'Rules'.
2. Select the interface (LAN).
3. Click the 'Add' button to create a new rule.
4. Set the following parameters:
   - Action: Pass or Block
   - Interface: LAN
   - Protocol: TCP/UDP
   - Source: Any
   - Destination: Any or specific IP
   - Destination Port: (Optional - e.g., 80 for HTTP, 443 for HTTPS)
5. Click 'Save'.
6. Click 'Apply Changes' at the top.

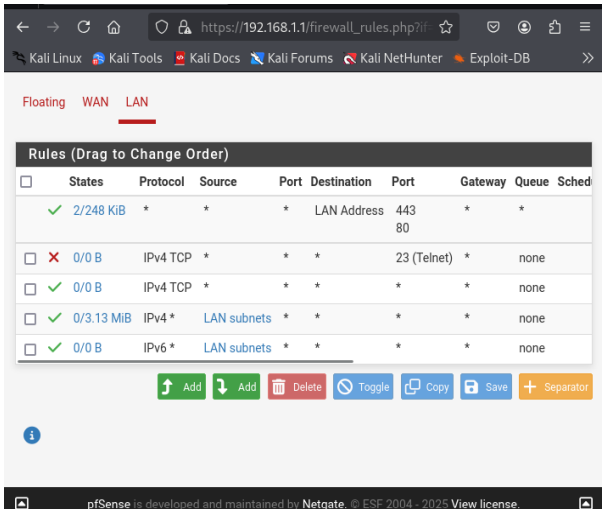


Rules Page after Saving Changes

- ## Step 3: Block Suspicious Traffic

Example: Block access to Telnet (port 23):

1. Click 'Add' at the top of the LAN rules list.
2. Set:
   - Action: Block
   - Protocol: TCP
   - Source: Any
   - Destination: Any
   - Destination Port Range: From 23 to 23
3. Save and Apply Changes.



Block Rule for Telnet

- ## Step 4: Verify Configuration

1. Go to 'Status' > 'System Logs' > 'Firewall'.
2. Check logs to see blocked or allowed traffic.
3. You can also test connectivity from another system.