

# pfSense Perimeter Firewall Configuration

## Goal

Harden and manage perimeter access by configuring targeted firewall rules on a pfSense security appliance to support a DMZ-hosted web service.

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## What I Implemented

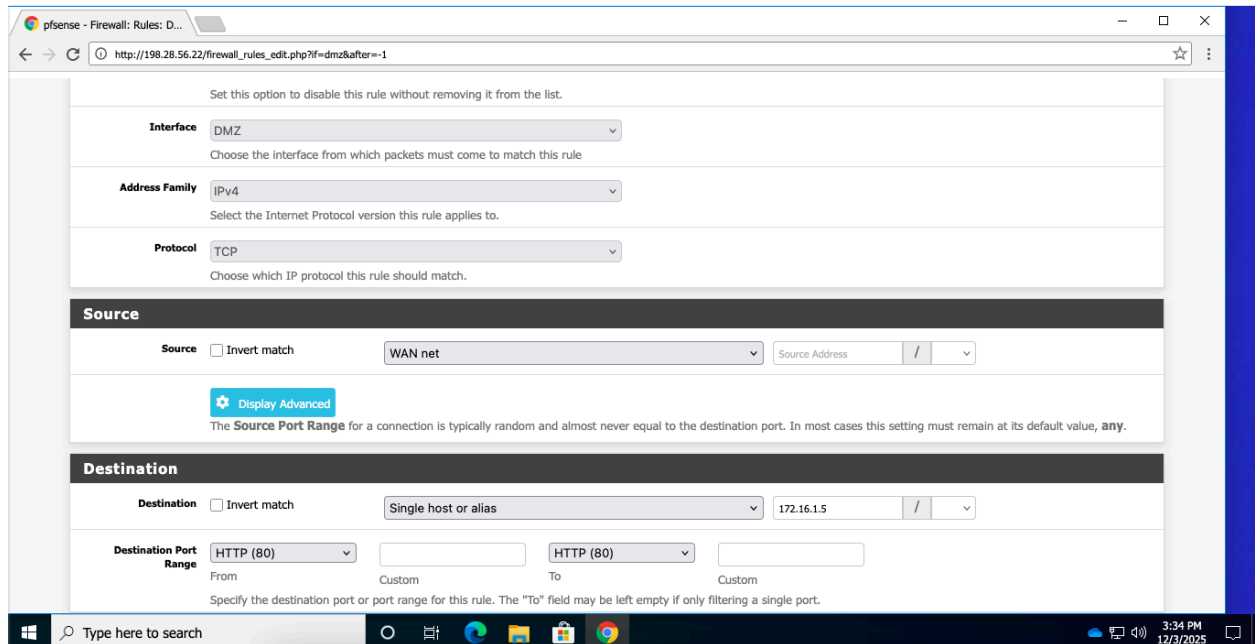
### 1. Enabled External Access to a DMZ Web Server

Created dedicated firewall rules allowing inbound WAN traffic to reach a web server located in the DMZ:

- **HTTP (80) WAN → DMZ**
- **HTTPS (443) WAN → DMZ**
- Traffic restricted to a single host: **172.16.1.5**

### Purpose:

Allows public web access while maintaining isolation between WAN, LAN, and DMZ segments.

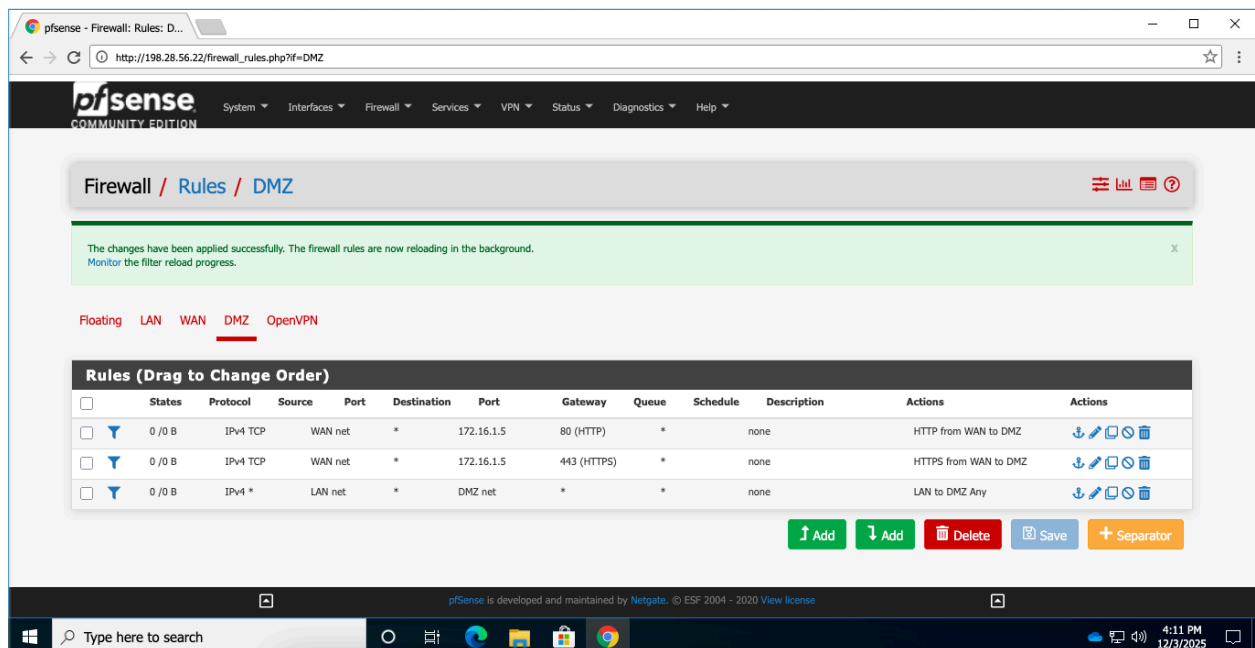


## 2. Configured Internal LAN → DMZ Trust Path

Added an internal rule to allow full LAN-originating traffic to the DMZ network.

### Purpose:

Enables administrators and internal hosts to manage or support DMZ resources without weakening WAN-facing security controls.



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## **Security Impact**

This configuration builds a controlled perimeter for a public-facing web server while enforcing least privilege and maintaining strict WAN/LAN/DMZ segmentation. It reflects real-world firewall administration using pfSense, a widely adopted open-source network security platform.