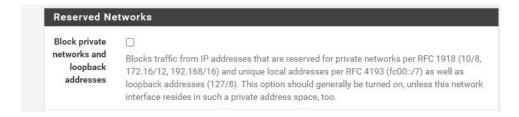
OVERVIEW:

In this lab, I focused on configuring the pfSense firewall to control traffic between the WAN, LAN, and DMZ network segments I had set up. The main goal was to gain hands-on experience with firewalls, setting up rules, and testing connectivity. This lab proved valuable as it simulated a segmented network, giving me the ability to manage communication between devices by configuring firewall rules to either allow or deny traffic. The skills I gained will be helpful outside the classroom for managing network security and configuring firewalls in real-world environments.

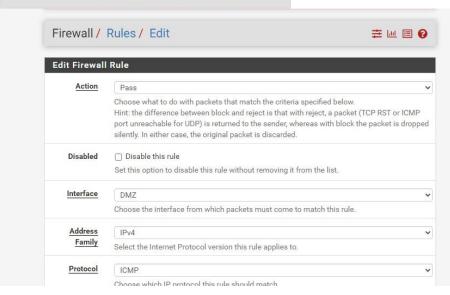
ANALYSIS:

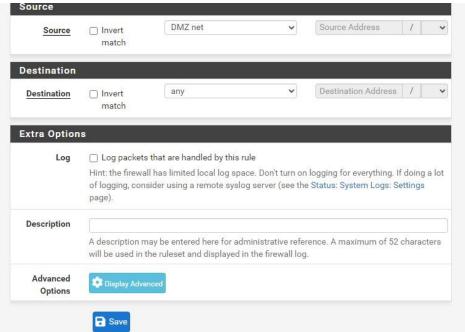
I began by creating new firewall rules to manage traffic effectively.

Firewall / Rules / WAN

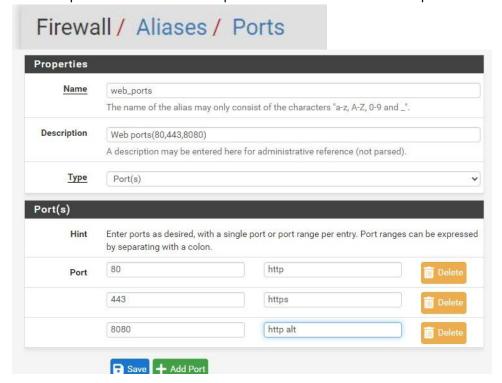


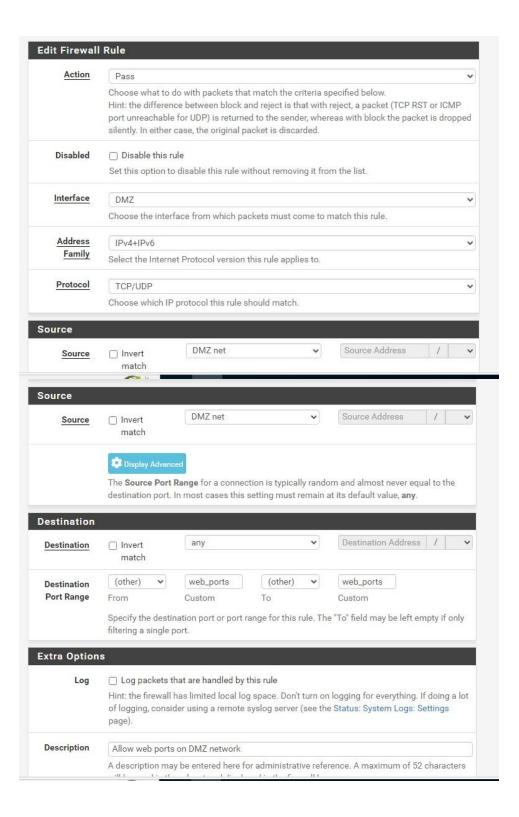
Firewall / Rules / DMZ

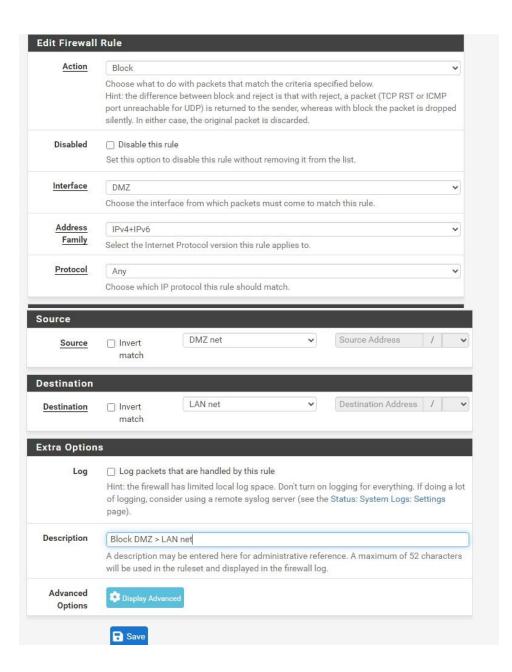




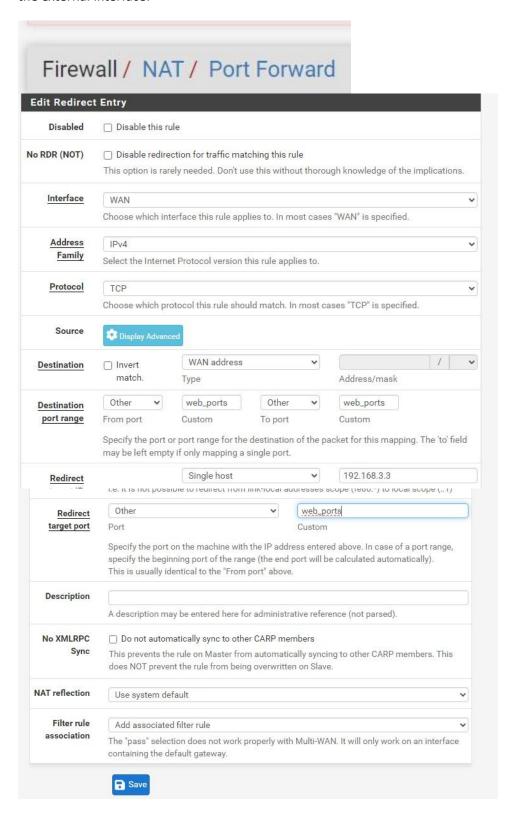
To simplify future configurations, I created an alias for common services such as HTTP, HTTPS, and HTTP alternate ports. This alias would help streamline rule creation and improve network management.







Next, I configured a NAT firewall rule to ensure proper traffic routing between the internal network and the external interface.



Once the rule was in place, I tested the setup by entering the WAN IP address on the host PC, and successfully accessed the webpage, confirming that the configuration was working as expected.

