Course: IS6572 - Fall 2025

Date: 08-26-2025

Lab: Palo Alto Firewall Security and NAT Policies

This lab is continuation after the Interface Configuration lab. This lab is focused on setting up the NAT and Security Policies to allow the systems within the lab topology to communicate to the outside world.

## Objectives:

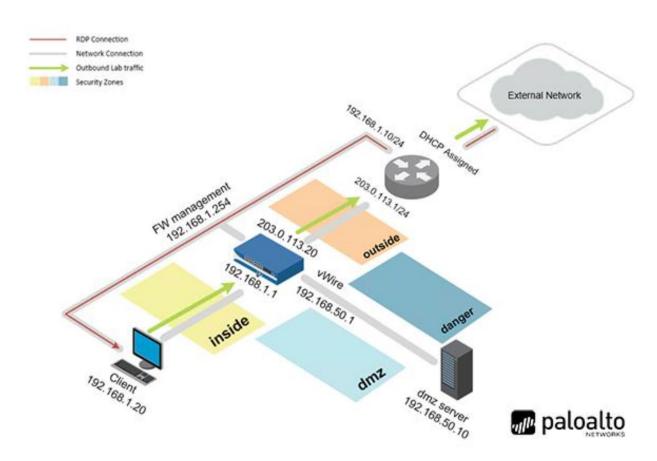
- 1. Create tags for later use with Security policy rules
- 2. Create a basic source NAT rule to allow outbound access and an associated Security policy rule to allow the traffic
- 3. Create a destination NAT rule for FTP server and an associated Security policy rule to allow the traffic

Lab Settings: Security and NAT Policies

Load Lab Configuration

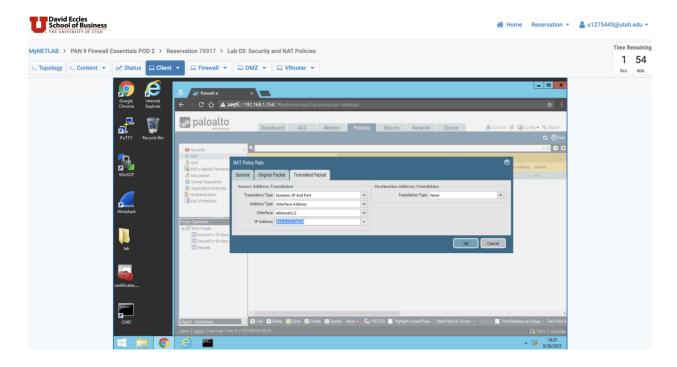
- 1.1 Create Tags
- 1.2 Create a Source NAT Policy
- 1.3 Create Security Policy Rules
- 1.4 Verify Internet Connectivity
- 1.5 Create FTP Service
- 1.6 Create a Destination NAT Policy
- 1.7 Create a Security Policy Rule
- 1.8 Test the Connection

## Lab Topology:

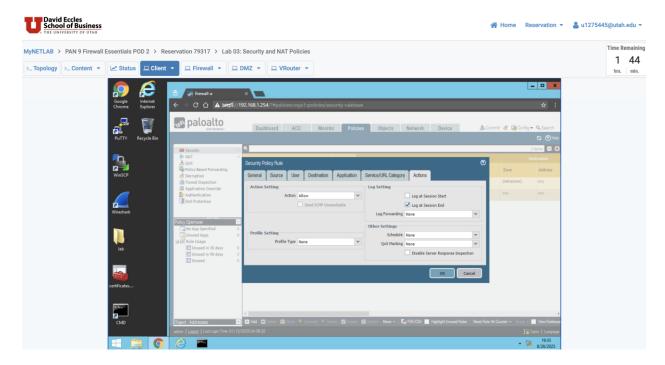


## Section 1.2: Create a Source NAT Policy

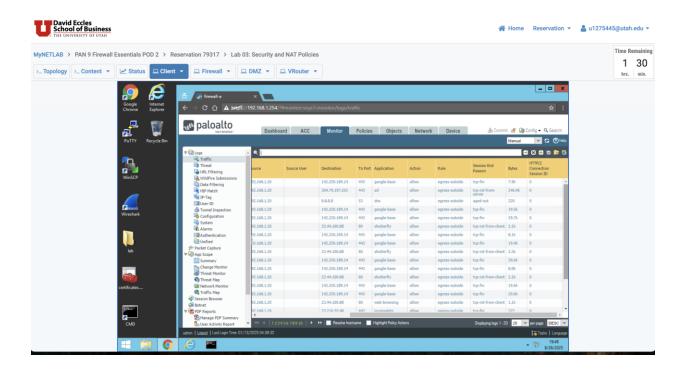
Step 5: Screenshot below shows setup where packet from dynamic IP and port is translated to Source IP of 203.0.113.20/24 at interface ethernet1/1.



Step 8: Following Screenshot shows the Security Policy created for the traffic that exits inside to outside traffic in addition to mandatory log at the end of each session.

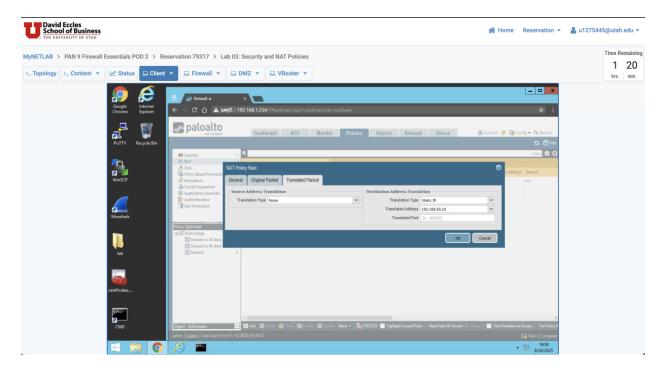


Step 3: To test egress (outbound) connectivity from the internal to the external network, the websites www.msn.com and www.shutterfly.com were accessed. The following screenshot shows the captured traffic logs at the end of the sessions, corresponding to the Security Policy created in Section 1.3, Step 8.



## Section 1.6: Create a Destination NAT Policy

Step 5: Below, I configured Destination NAT Policy. The setup involved initiating a connection from the Windows host (192.168.1.20) to the firewall's interface IP (192.168.1.1). The firewall then translated this connection to the DMZ server at 192.168.50.10.



Section 1.8: Testing Security Policy Rule connection for Logs View.

Step 9: In this section, I created a Security Policy rule to allow internal access to the DMZ FTP service, with logging enabled for any DMZ-related events starting at 20:15 and lasting for the next 5 minutes. The first screenshot below shows the time settings configured when the Security Policy was applied on the firewall. The following screenshot displays the successful traffic log entries generated after accessing the DMZ.



