### PROJECT 4

FIREWALL AND IDS CONFIGURATION

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#### Summary

Install Snort on pfSense:

Installing Snort on the pfSense package manager & configure it.

Log Suspicious Activity:

To monitor log suspicious activity on both Untrusted and DMZ network interfaces set up snort

Configure Alerts for Exploits:

Configure Snort to detect and alert on specific exploits used in your previous project

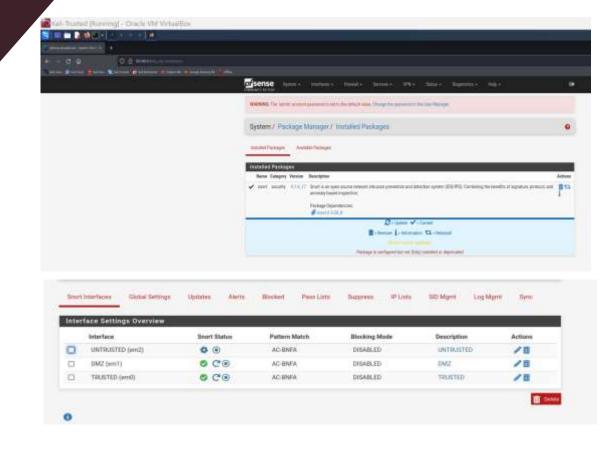
lock FTP Traffic:

Create firewall rules to block FTP traffic from Untrusted network to DMZ interface.

Testing and Verification:

Using Wireshark test snort alerts and firewall rule effectiveness.

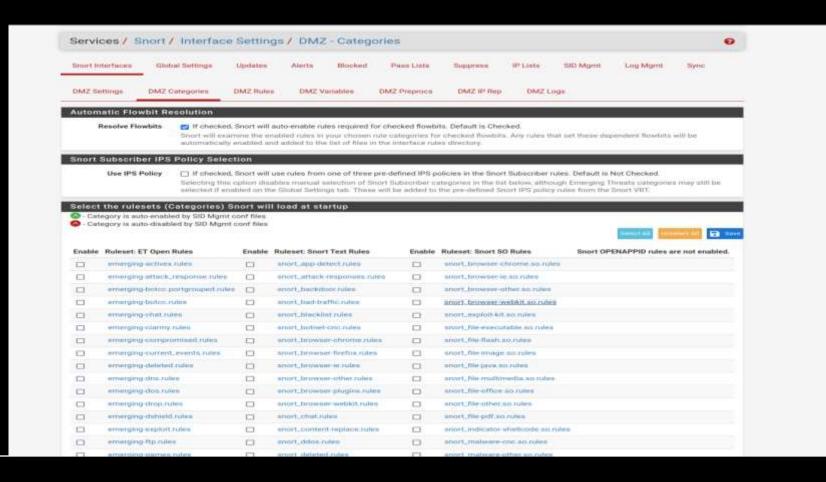
## DOWNLOAD AND INSTALL SNORT ON THE PFSENSE FIREWALL.



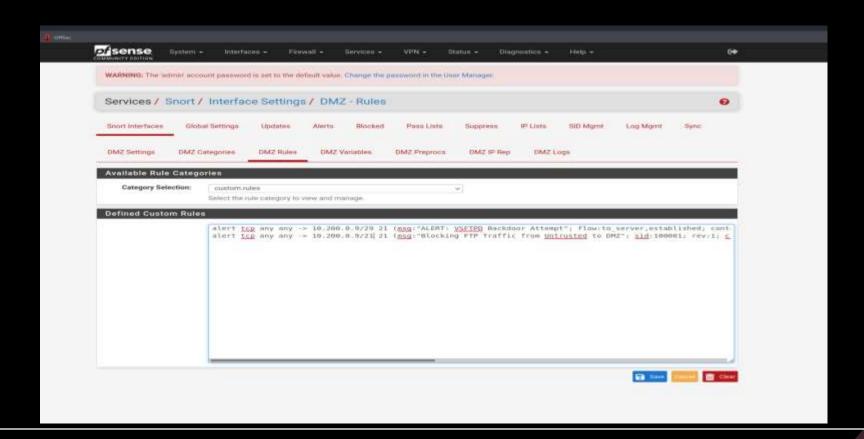
#### Use of Snort

- Snort Installation and Setup
- Monitoring and Logging Suspicious Activity
- Alert Configuration for Exploits:
- Blocking FTP Traffic
- Testing and Verification

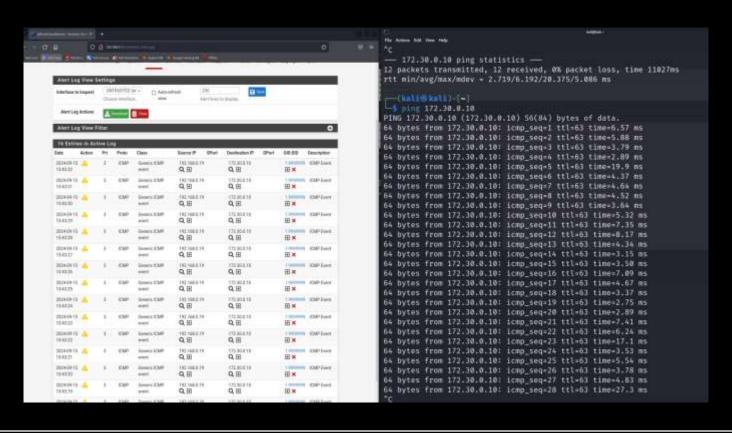
#### Snort interface settings



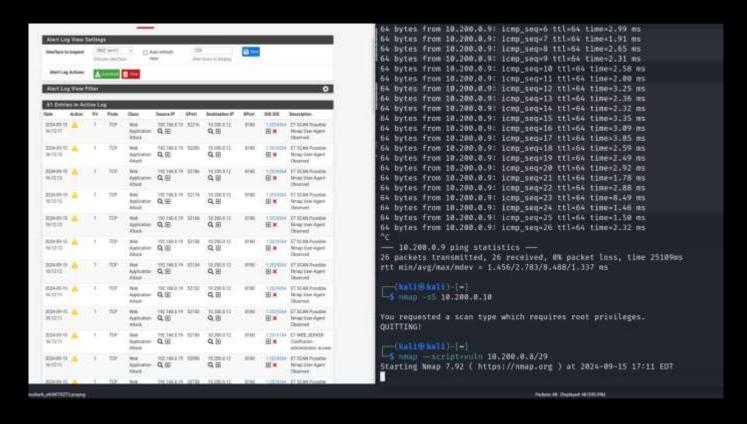
#### Snort custom rules



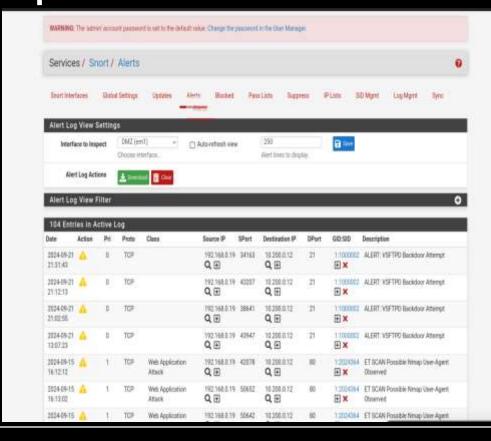
### log suspicious activity on the Untrusted interface



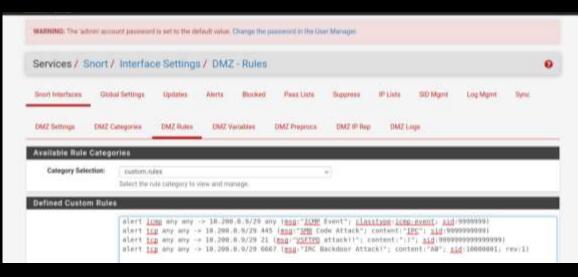
### log suspicious activity on the DMZ interface

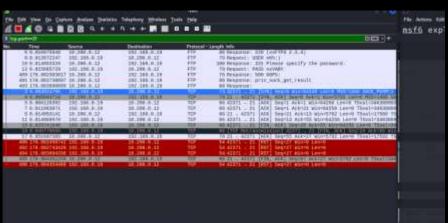


### Snort to alert to Web Server port(21) exploit









# FIREWALL RULES TO BLOCK FTP TRAFFIC

### Recommendations to improve server security



Keep Systems and Software Updated



Enable and Configure a Firewall



Secure Remote Access



Implement Regular Security Audits and Monitoring



Implement Security Policies and Training



Regular Backups and Disaster Recovery



 Completing this project determine the capability to secure network infrastructures by implementing firewalls, configuring an IDS/IPS with Snort, and blocking specific network traffic to prevent unauthorized access. Here we learn some lessons in monitoring and analyzing traffic and creating some rules to detect and respond to potentials threats. Regular updates, security measures and continuous monitoring will help continuing protection of our systems.