<u>Lab 6.3.4: Configuring an Intrusion Detection System on a pfSense Security Appliance</u>

From TestOut CompTIA Security+ Course

In this lab I will be configuring an Intrusion Detection System using an Open Source package called Snort, within a pfSense Security Appliance environment.

The scenario for this lab is as follows:

"You work as the IT security administrator for a small corporate network. In an effort to protect your network against security threats and hackers, you have added Snort to pfSense. With Snort already installed, you need to configure rules and settings and then assign Snort to the desired interface.

In this lab, your task is to use pfSense's Snort to complete the following:

Sign in to pfSense using the following:

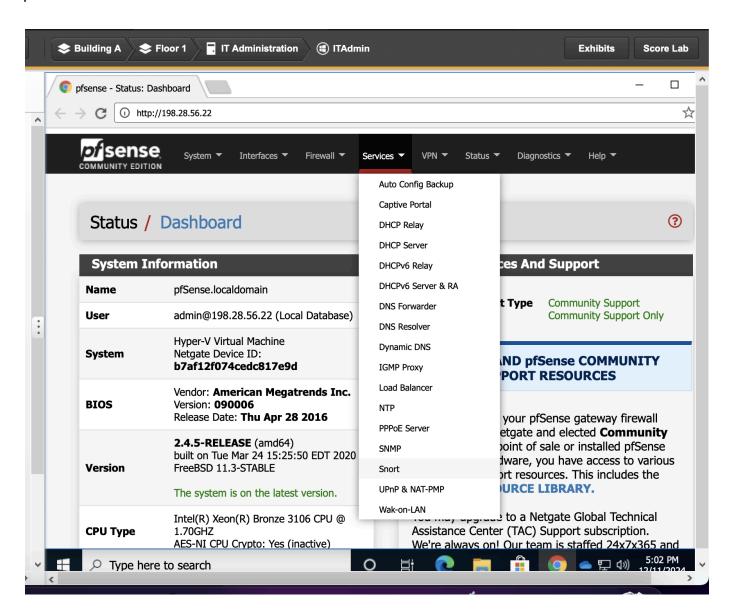
- Username: admin
- Password: P@ssw0rd (zero)
- Enable the downloading of the following:
 - Snort free registered User rules
 - Oinkmaster Code: 359d00c0e75a37a4dbd70757745c5c5dg85aa
 - Snort GPLv2 Community rules
 - Emerging Threats Open rules
 - o Sourcefire OpenAppID detectors
 - o APPID Open rules
- Configure rule updates to happen once a day at 1:00 a.m.
 - Hide any deprecated rules.
- Block offending hosts for 1 hour.
- Send all alerts to the system log when the Snort starts and stops.
- Assign Snort to the WAN interface using a description of WANSnort.
 - o Include:
 - Sending alerts to the system log
 - Automatically blocking hosts that generate a Snort alert

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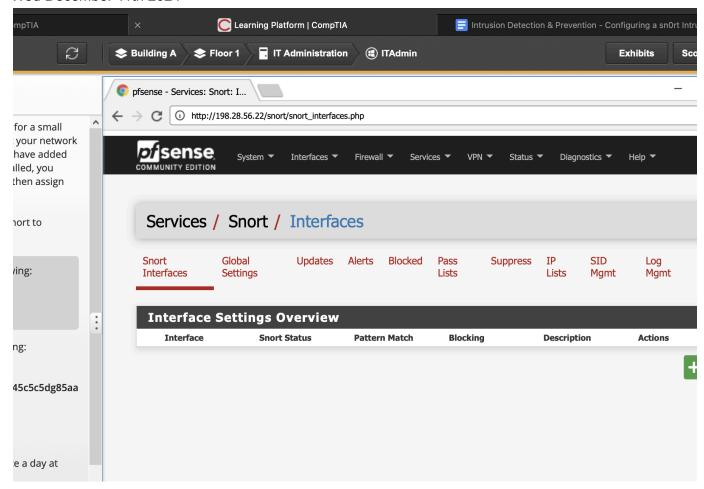
Start Snort on the WAN interface."

I will start by logging in to the pfSense security Appliance with the credentials applied. Once I am in , I will navigate over to the Package Installer within the pfSense GUI environment.



In Services > Snort I'll click it to open the configuration.

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Once on the Snort Service page, I'll click the **Global Settings** breadcrumb on the menu to open the general configuration.

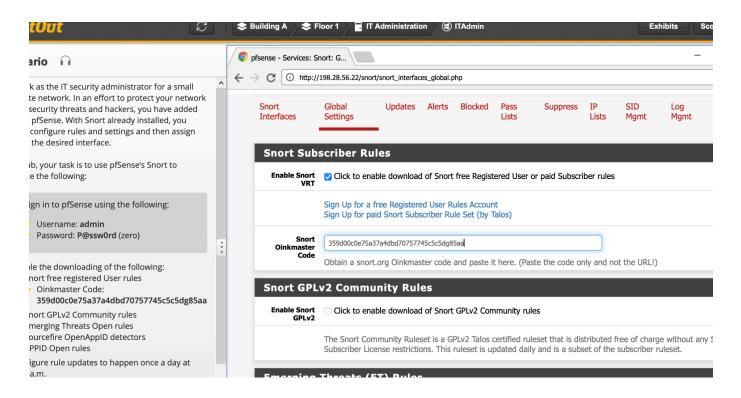
My First task in this lab is to set the following settings:

- Enable the downloading of the following:
 - Snort free registered User rules
 - Oinkmaster Code: 359d00c0e75a37a4dbd70757745c5c5dg85aa
 - Snort GPLv2 Community rules
 - Emerging Threats Open rules
 - Sourcefire OpenAppID detectors
 - o APPID Open rules

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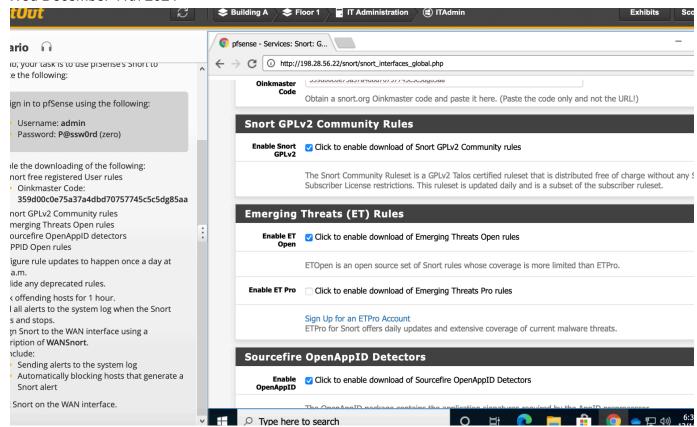
Note that even though Snort is open source, they offer a paid subscription to update rules 30 days ahead of users on the GPL license. Since we are setting up Snort for the first time, we need to download the **Free User Rules**.



I will also add the Oinkmaster code provided to us by the lab as shown.

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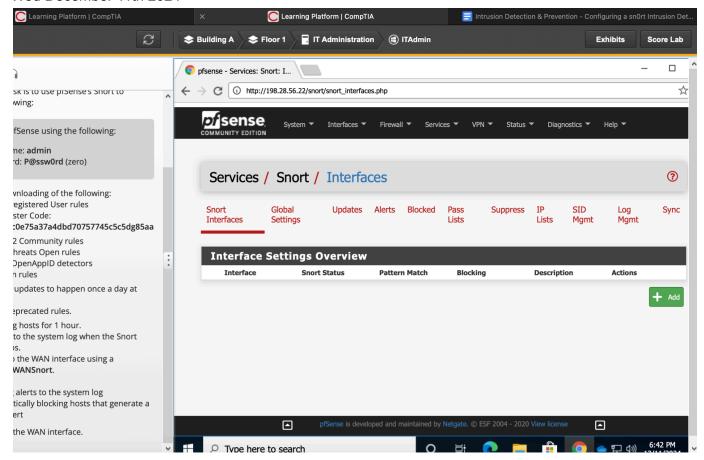


After we've set our configuration on this page, we need to point snort to an interface to "listen" to packets in order to determine their legitimacy.

To do that I'll navigate to Services > Snort Interface

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I'll hit the Green Add button to assign Snort to my WAN interface.

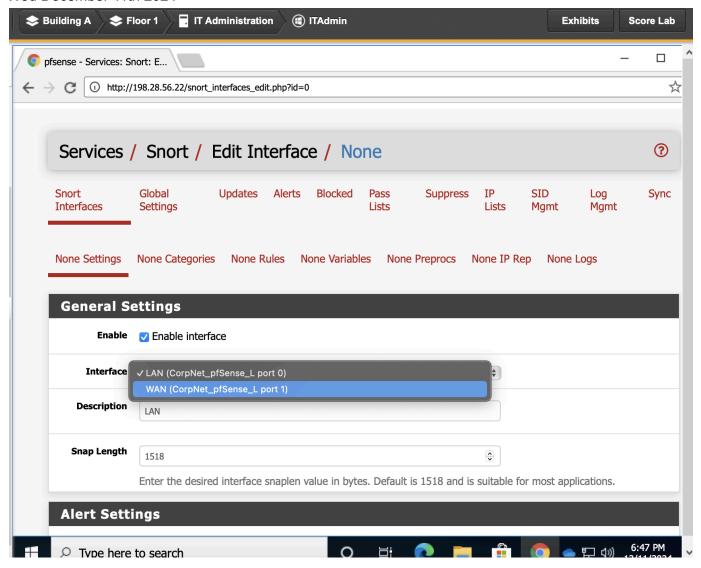
We need to do the following:

Assign Snort to the WAN interface using a description of WANSnort.

- o Include:
 - Sending alerts to the system log
 - Automatically blocking hosts that generate a Snort alert
- Start Snort on the WAN interface.

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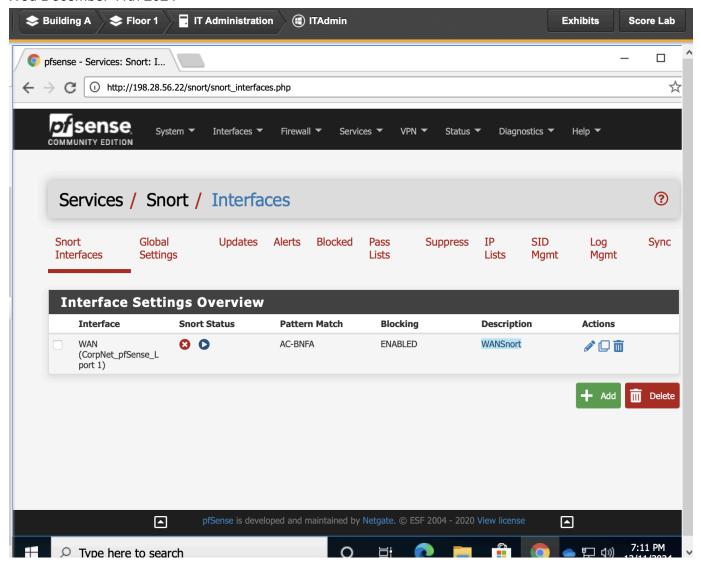
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Now that we've added the configuration for this WAN interface, the Snort menu will populate with the config we just added.

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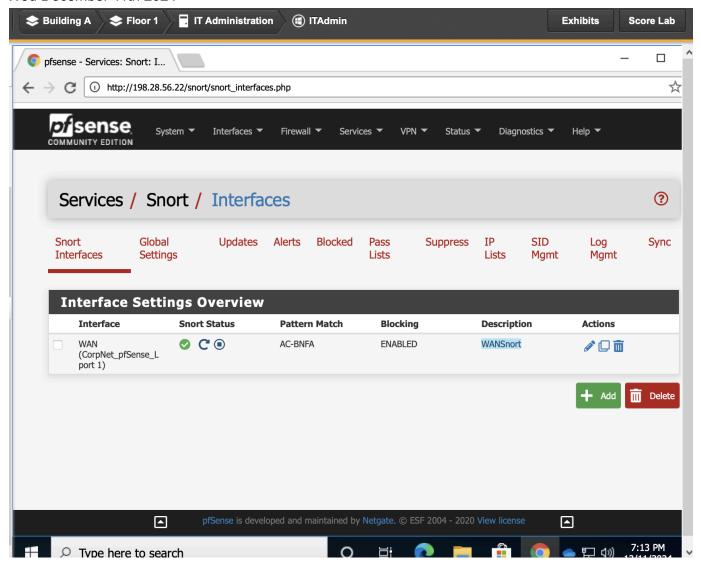
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The last task of this lab is to manually start the Snort service. I can do that by clicking the PLay button on the **Snort Status**. **After I click the button I see the following**;

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This now concludes the lab! We've completed all the task and the configurations we set are now active and running on the Snort service within our pfSense Security Environment!

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