## Lab 4: Adding a Snort IDS to pfSense

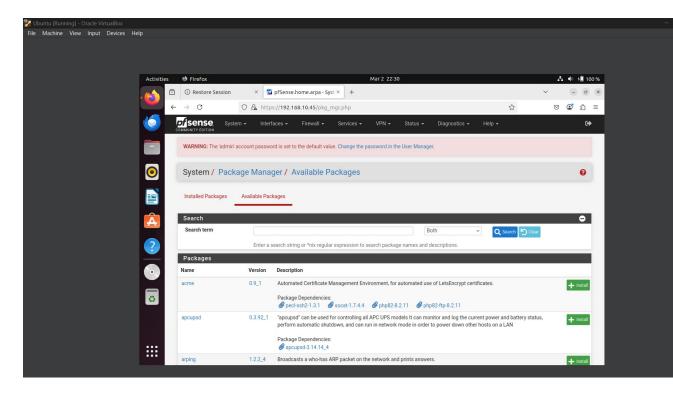
# Objective 1: Installation and Initial Setup

## Accessed the pfSense Web Portal

Opened a web browser and logged in to the pfSense web portal.

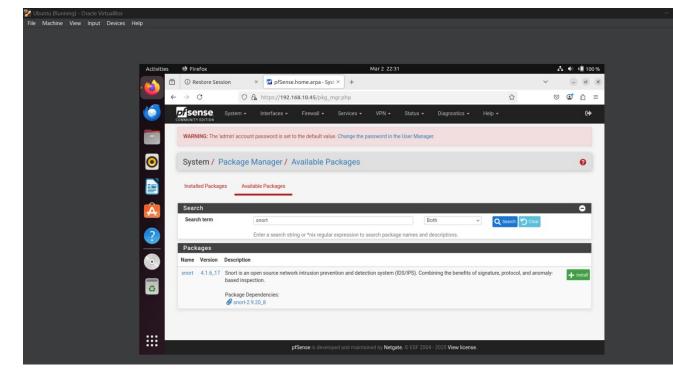
## Navigated to the Package Manager

Went to *System > Package Manager*.

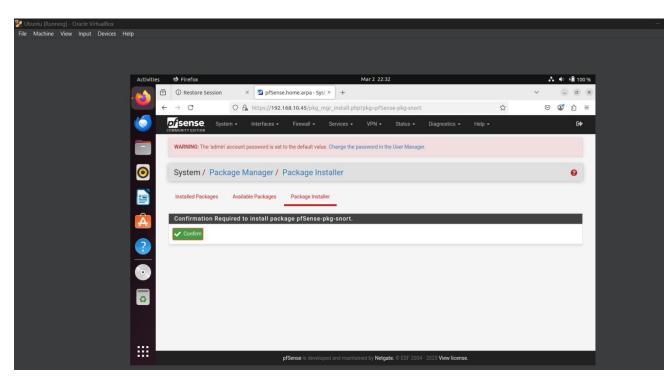


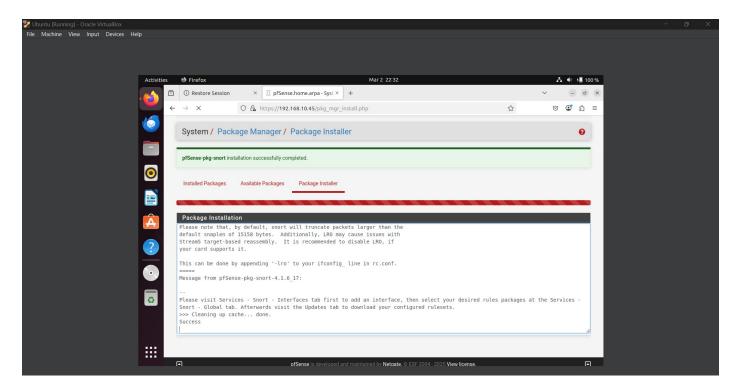
## **Installed the Snort Package**

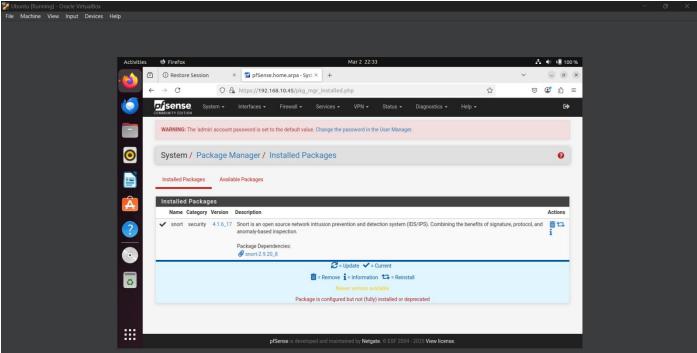
Clicked on the Available Packages tab and searched for Snort.



Clicked Install and confirmed to begin the installation process.

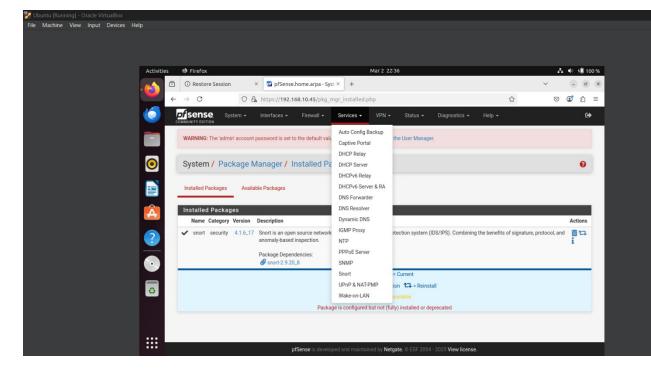






## **Configured Global Settings**

Navigated to Services > Snort to access the Snort Interfaces Configuration page.



Switched to the *Global Settings* tab and configured the following:

Enabled Snort VRT by entering the Oinkmaster code from Security Onion.

Enabled Snort GPLv2.

Enabled ET Open.

Enabled OpenAppID.

Enabled AppID Open Text Rules.

Set the following:

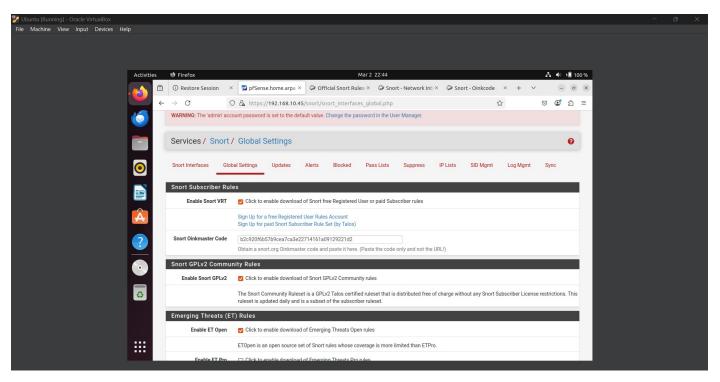
Update Interval: 12 HOURS.

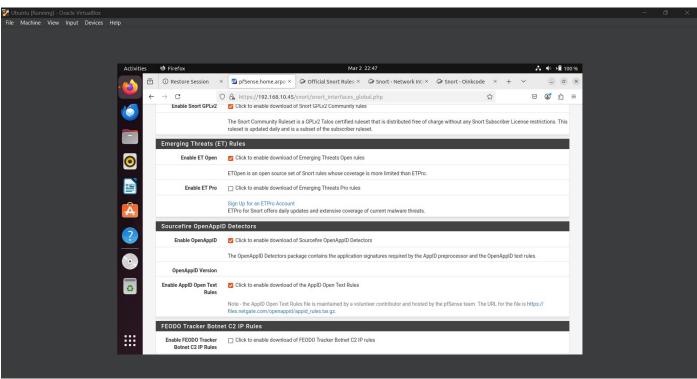
Update Start Time: 00:51.

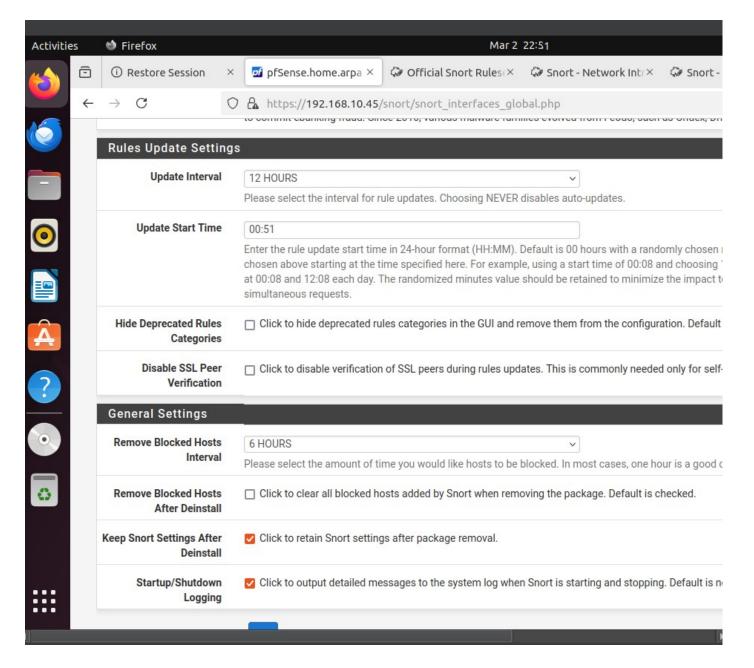
Remove Blocked Hosts Interval: 6 HOURS.

Enabled Startup/Shutdown Logging.

Clicked Save to apply these configurations.

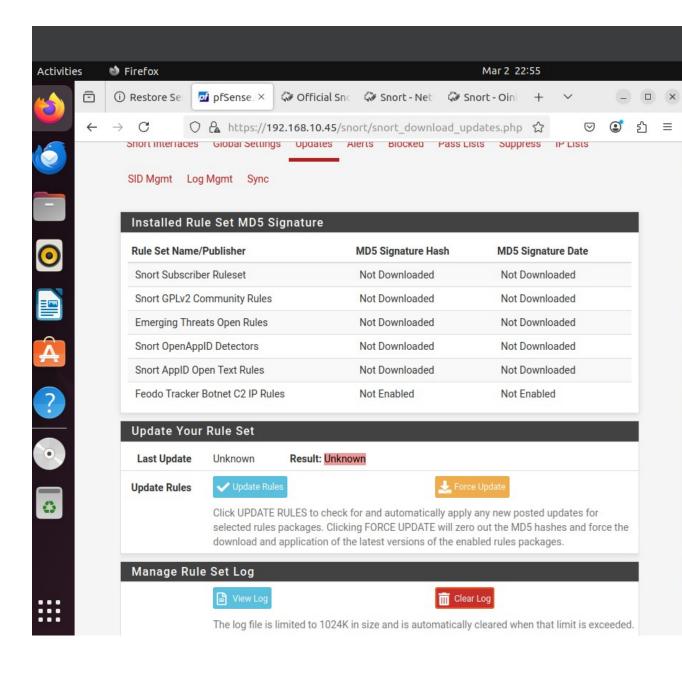


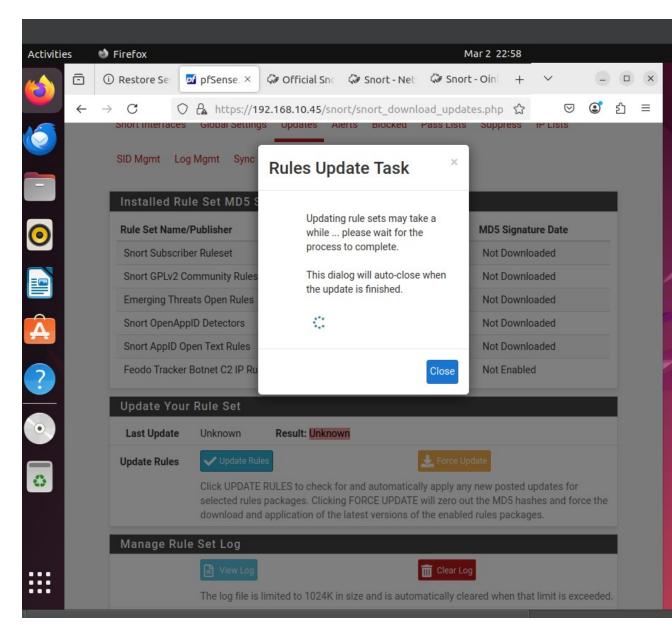




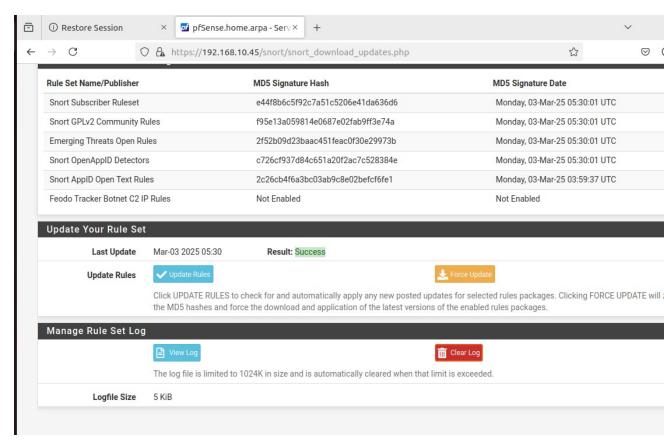
### **Forced Initial Rule Update**

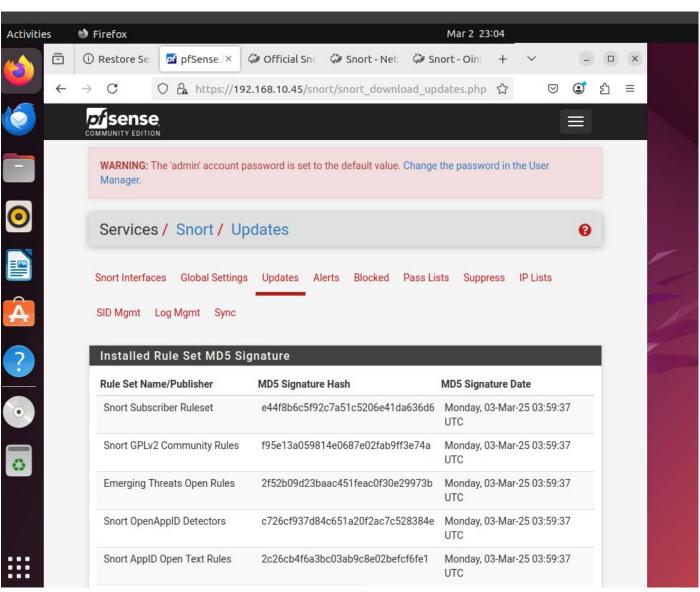
Switched to the *Updates* tab and clicked *Force Update* to start the initial rule update.





Verified the update by checking for an MD5 signature with the current time and date.

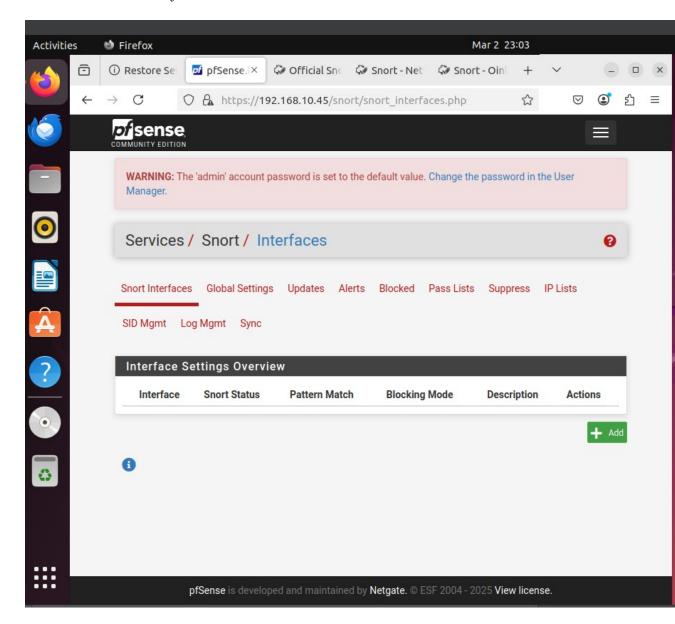




# Objective 2: Configuring Snort Interfaces

#### Added a New Snort Interface

Went to the Snort Interfaces tab and clicked Add to create a new interface.



Configured the interface as follows:

Interface: WAN (to protect the external network interface).

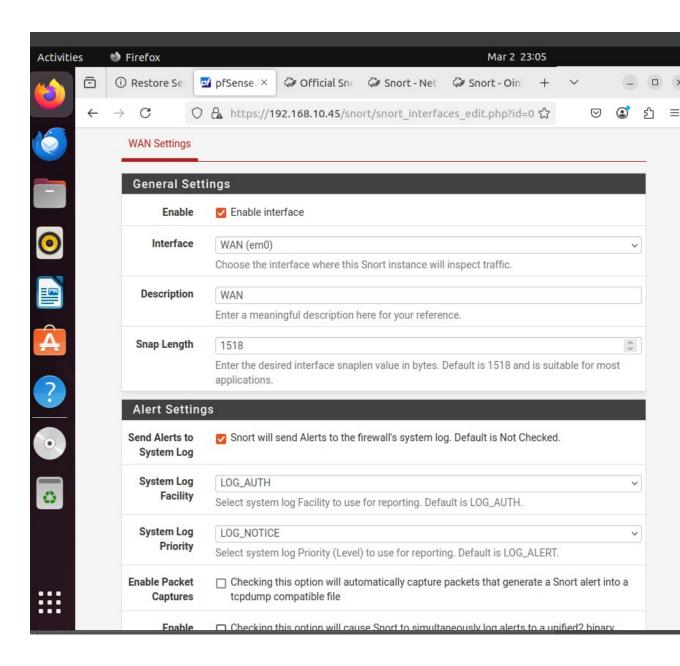
Enabled Send Alerts to System Log to forward alerts to the pfSense system log.

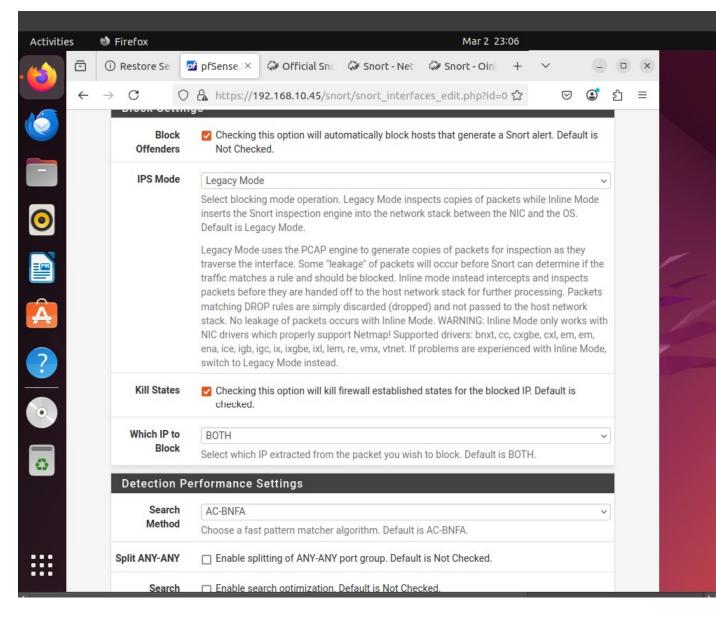
Set System Log Priority to LOG NOTICE for more verbose alerting.

Enabled *Block Offenders* to convert Snort from an IDS to an IPS.

Used Legacy Mode and blocked both source and destination IPs.

Clicked Save.



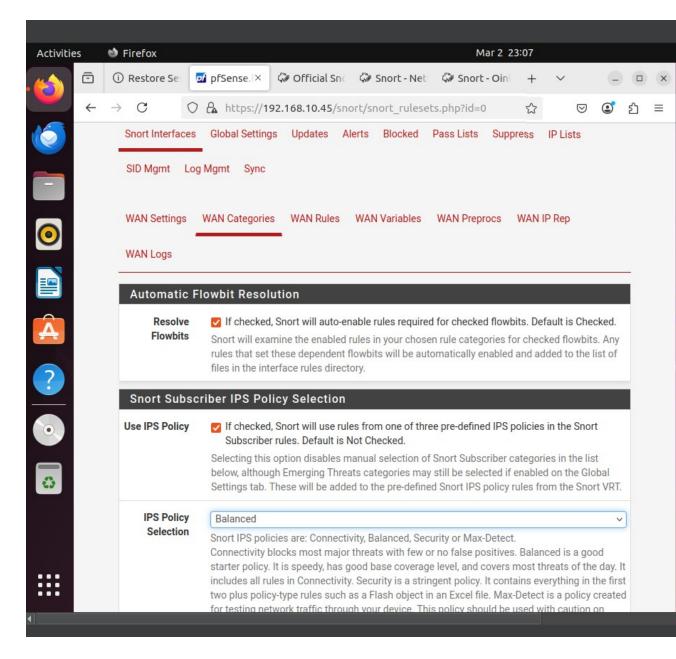


### **Set IPS Policy**

Switched to the WAN Categories tab and checked the Use IPS Policy option.

Chose Balanced for the IPS Policy Mode.

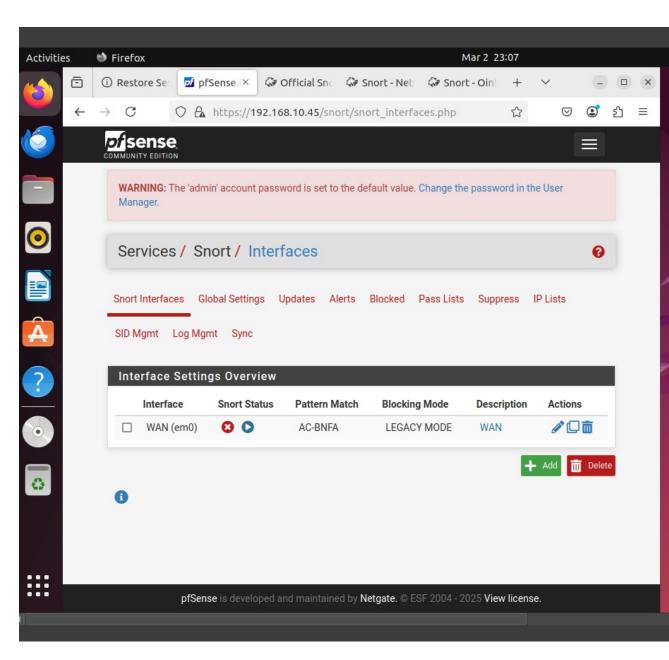
Clicked Save to finalize the configuration.

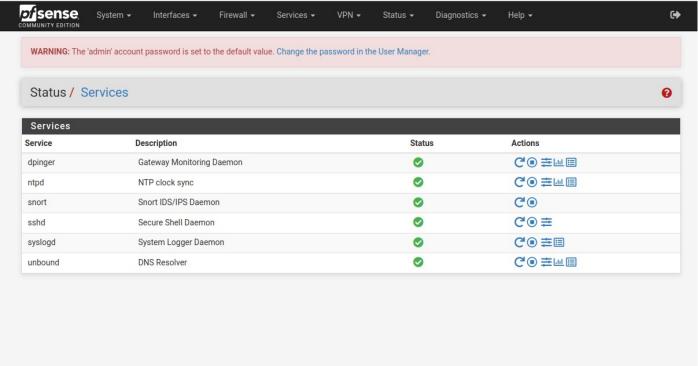


#### **Started Snort**

Navigated to Services > Snort > Interfaces and clicked Start Snort on the WAN interface.

Verified that Snort was monitoring traffic on the WAN interface using the *Service Status* widget on the main pfSense screen.

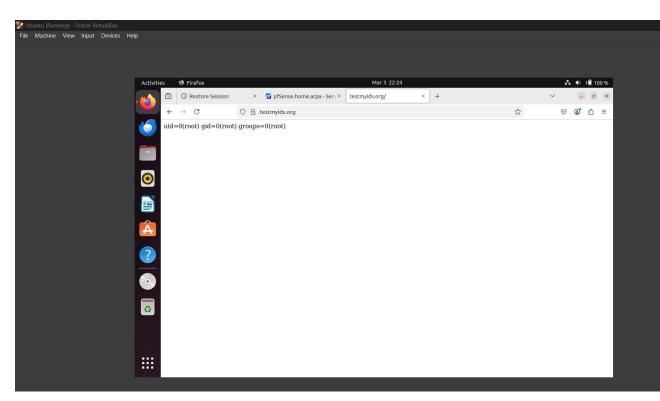


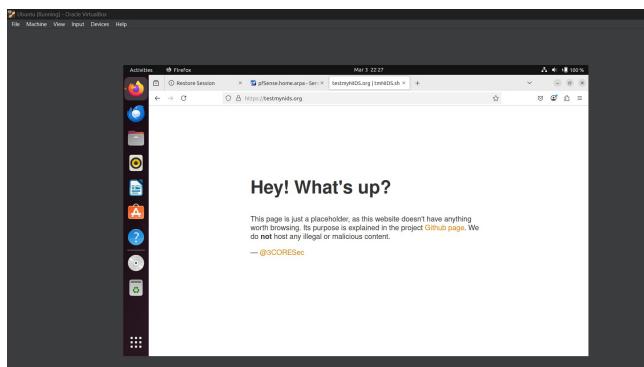


# Objective 3: Testing Snort Configuration

#### **Generated a Snort Alert**

On a computer within the network protected by pfSense, I opened a browser and visited tetsmyids.org and testmynids.org.





### **Viewed Snort Alerts**

Alerts were viewed on the main dashboard and by navigating to *Services* > *Snort* > *Alerts*. Couln't able to find any alerts generated

The *Blocked* tab was checked to see the IP addresses that had been blocked. No Ip Address has been blocked

