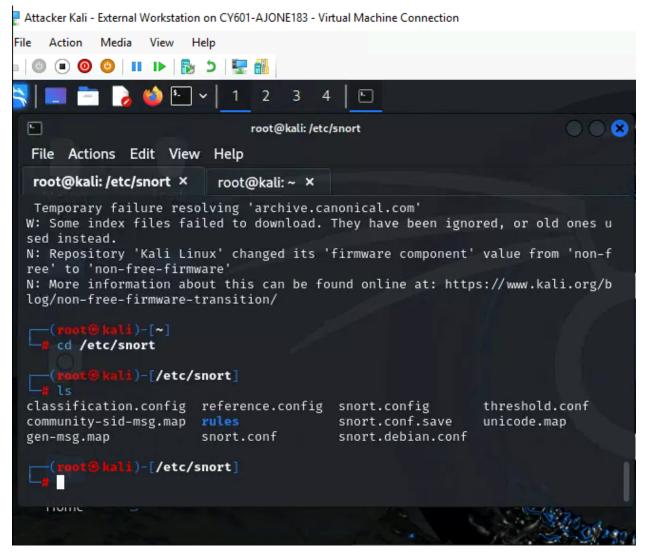
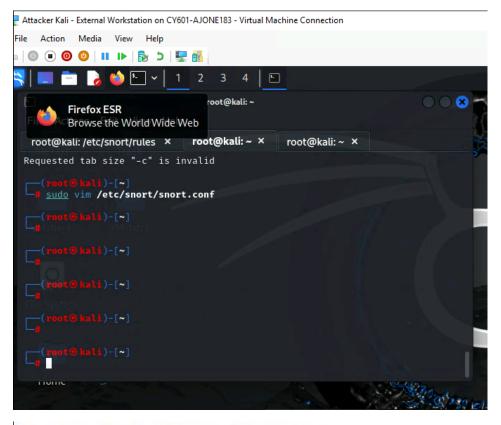
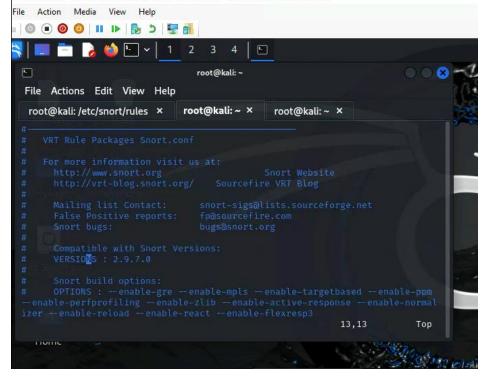
Task 1:

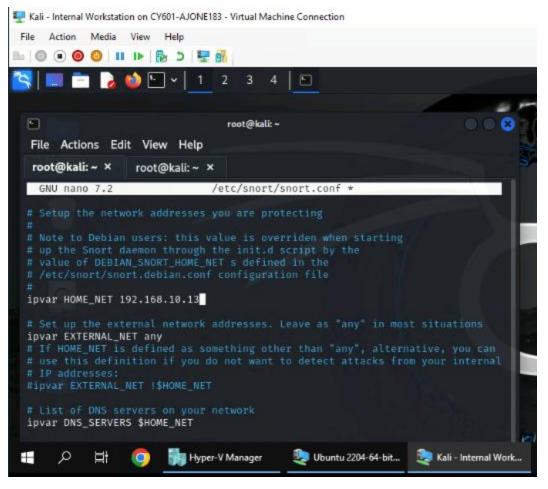


The command cd /etc/snort is used to move into the folder where Snort's settings are stored. To work with Snort's configuration files, I used the command cd /etc/snort. This command allowed me to access the folder where all the important files for Snort are kept. Inside this folder, I could find and make changes to the settings that control how Snort works. After entering the Snort folder, I used the command Is to list all the files inside. This command showed me the names of the files, including important ones like snort.conf, which contains the main settings for Snort.

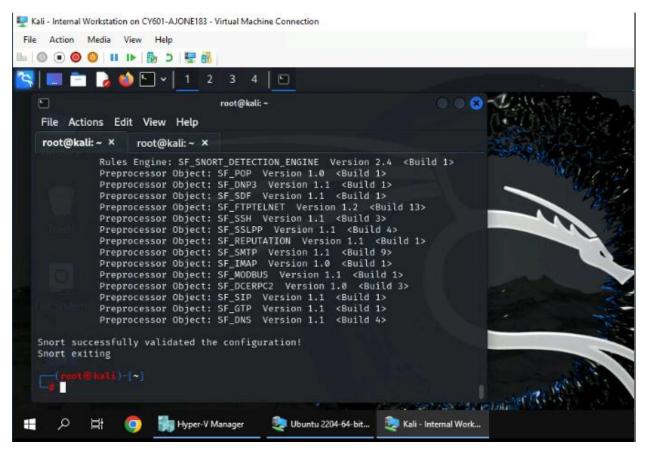


Attacker Kali - External Workstation on CY601-AJONE183 - Virtual Machine Connection

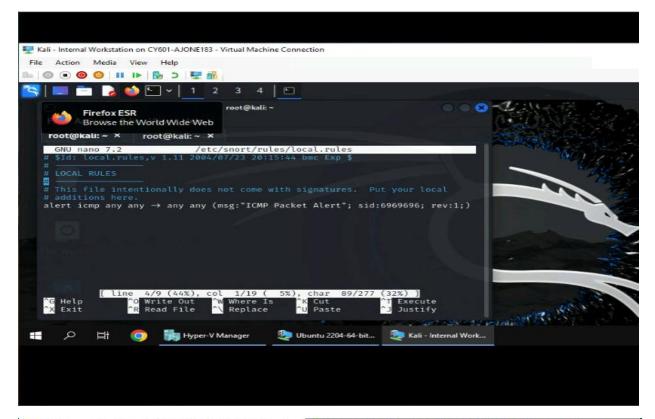


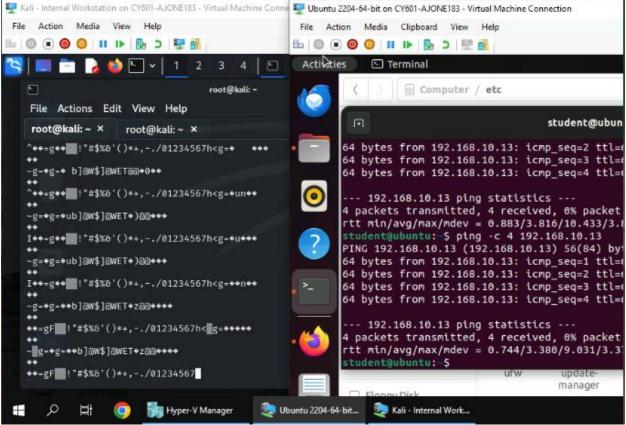


To edit the Snort configuration file, I used the command sudo vim /etc/snort/snort.conf. This opened the file with the necessary permissions since sudo gives root access. I also continued to run into the error of not connecting to the snort due to being on external kali. My next steps and updates and using the correct VM, thanks to <u>cloudcomputing@odu.edu</u>.



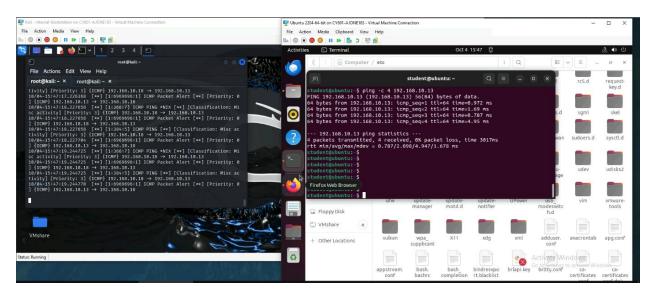
Snort is successfully configured.





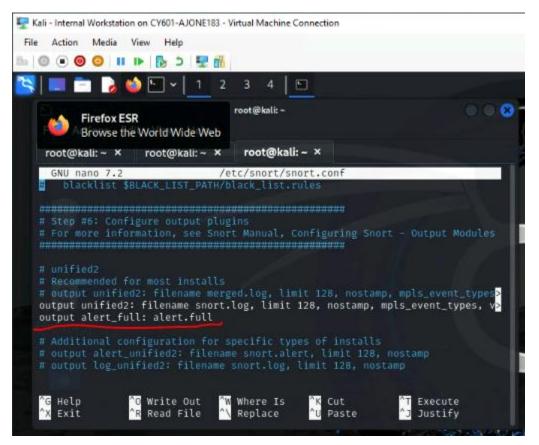
To access the local Snort rules file, I used the following command sudo nano /etc/snort/rules/local.rules. This command opens the local.rules file using the nano text editor with superuser privileges, allowing me to modify the rule set. Alert: This specifies the action that Snort should take when it matches this rule. In this case, it will generate an alert when the rule conditions are met. ICMP: This indicates that the rule applies specifically to ICMP (Internet Control Message Protocol) packets. ICMP is used for error messages and operational information in the network layer, such as the ping command. Any any -> any any: The first any any refers to the source of the packet. It means that the rule will match ICMP packets from any source IP address and any source port. The arrow -> indicates the direction of the traffic being monitored, meaning from the source to the destination. (msg:"ICMP Packet Alert"; sid:6969696; rev:1;): This part specifies additional options for the rule: msg:"ICMP Packet Alert": This is the message that will be logged when the rule triggers, allowing administrators to understand the context of the alert. Sid:6969696: This is the Snort ID (SID) for the rule, which must be unique among all rules. It helps identify the rule in logs and alerts. rev:1: This indicates the revision number of the rule. It can be incremented when changes are made to the rule.

To test the newly added rule, I generated ICMP traffic by pinging the IP address of my Snort instance from an Ubuntu machine. I executed the following command: ping -c 4 192.168.10.13



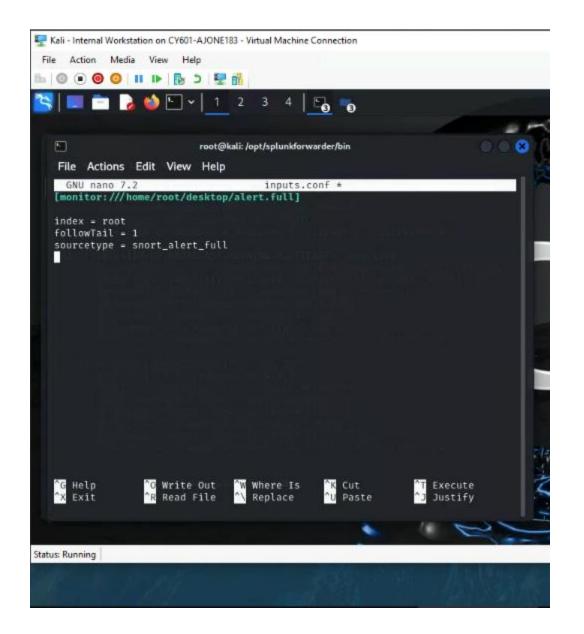
I verified that Snort generated alerts for the UDP packets based on the rule I created. I checked the terminal running Snort for any alerts or messages indicating the detection of UDP traffic.

Task 4:

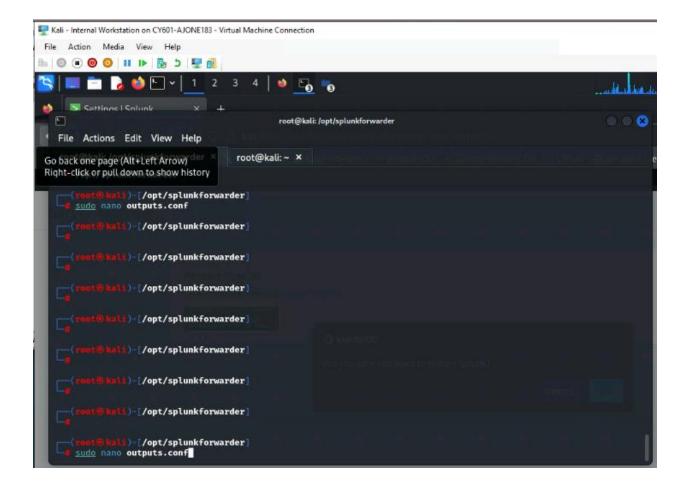


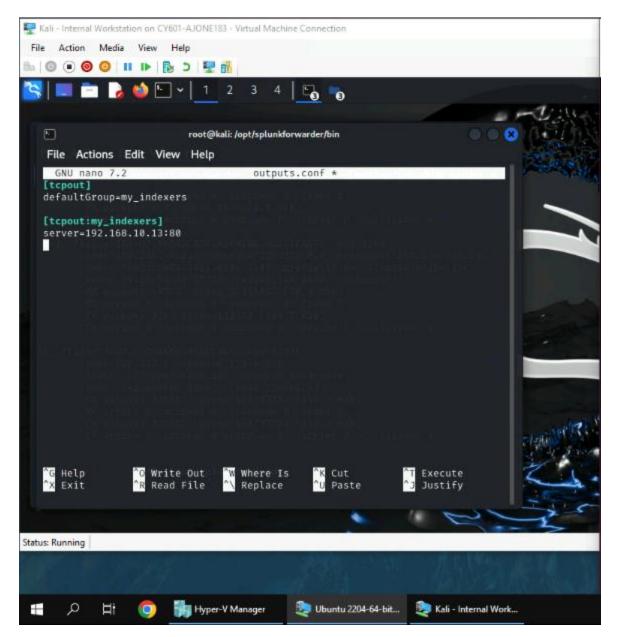
In your snort.conf file, add the following line to ensure Snort outputs full alerts to a file named alert.full: output alert full: alert.full

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M	inimize all open windows and show the desktop	root@kali: /opt/splunkforwarder		
۰	File Actions Edit View Help			
2	root@kali: /opt/splunkforwarder × root@kali			
	└─ # /opt/splunkforwarder			
l	<pre>(mot@ kali) / /opt/splunkforwarder] sudo nano outputs.conf</pre>			
	[root@iuli)-[/opt/splunkforwarder]			
	(root@lali) [/opt/splunkforwarder]			
	(soot@ huli)-[/opt/splunkforwarder]			
	[not@kali])-[/opt/splunkforwarder]			
	[mot G kali])-[/opt/splunkforwarder]			
	(xnot@ kali)-[/opt/splunkforwarder]			
	(snor@huli)-[/opt/splunkforwarder]			

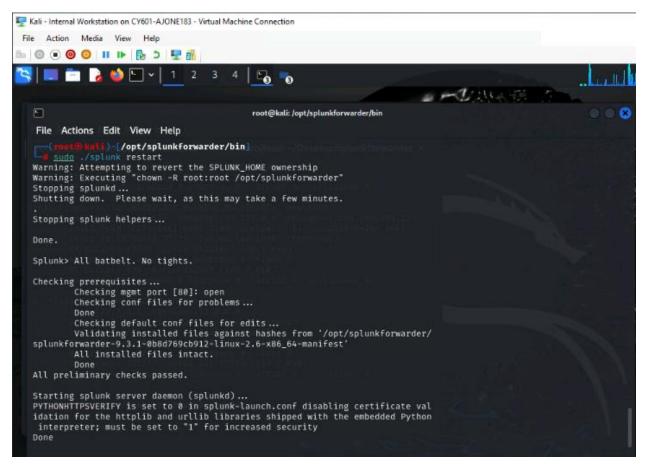


Input: To open the inputs.conf file with a text editor I used the command sudo nano inputs.conf and added the following lines to monitor the alert.full file with the correct file path.





Output: I configured the forwarder to send data to the Splunk server. I replaced the following IP address/port.



Restart: After making the changes I saved the new information and used the command sudo ./spunk restart to apply all the changes. This command forces the Splunk Forwarder to reload its configuration and begin monitoring the alert.full file for new Snort alerts.