PROJECT TASK 3

CONFIGURING SNORT IPS TO DETECT, MONITOR AND ALERT CYBERSECURITY ATTACKS

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CISSC 661: Principles of Cybersecurity & Cyberwarfare

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Snort IPS Setup

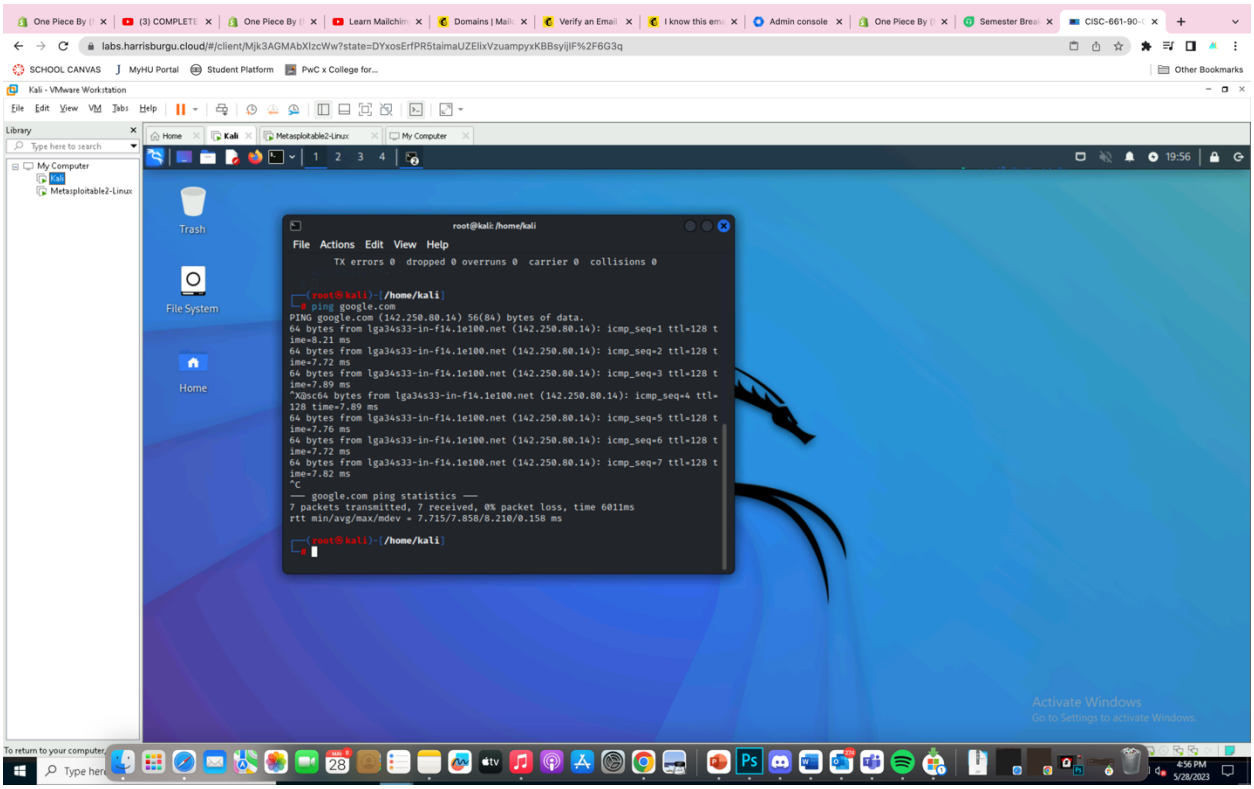
Performed a successful exploit for this project. For this project we needed Kali Linux, Metasploitable.

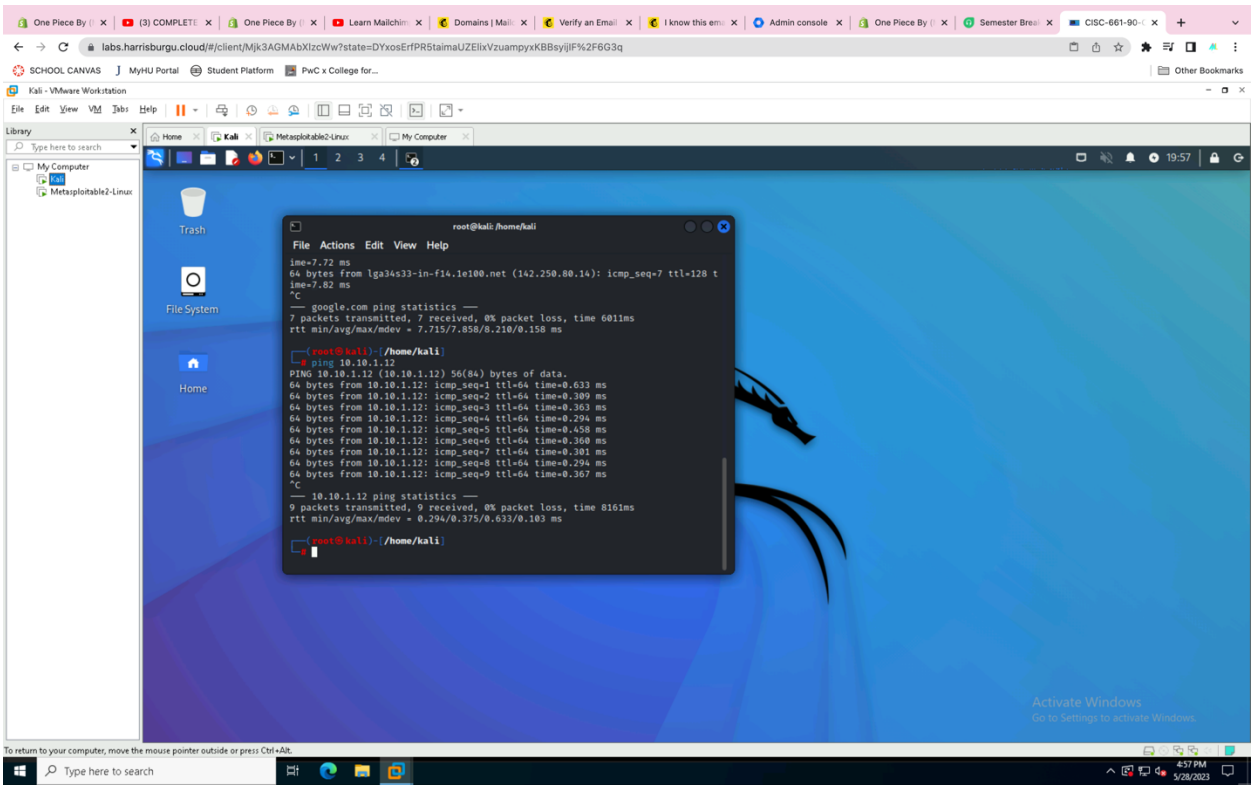
System Configuration:

- Macbook Pro 2016
- Mac OS Ventura
- 32 GB RAM
- 2.3 GHz 8-Core Intel Core i9

Step 1: Test for connection

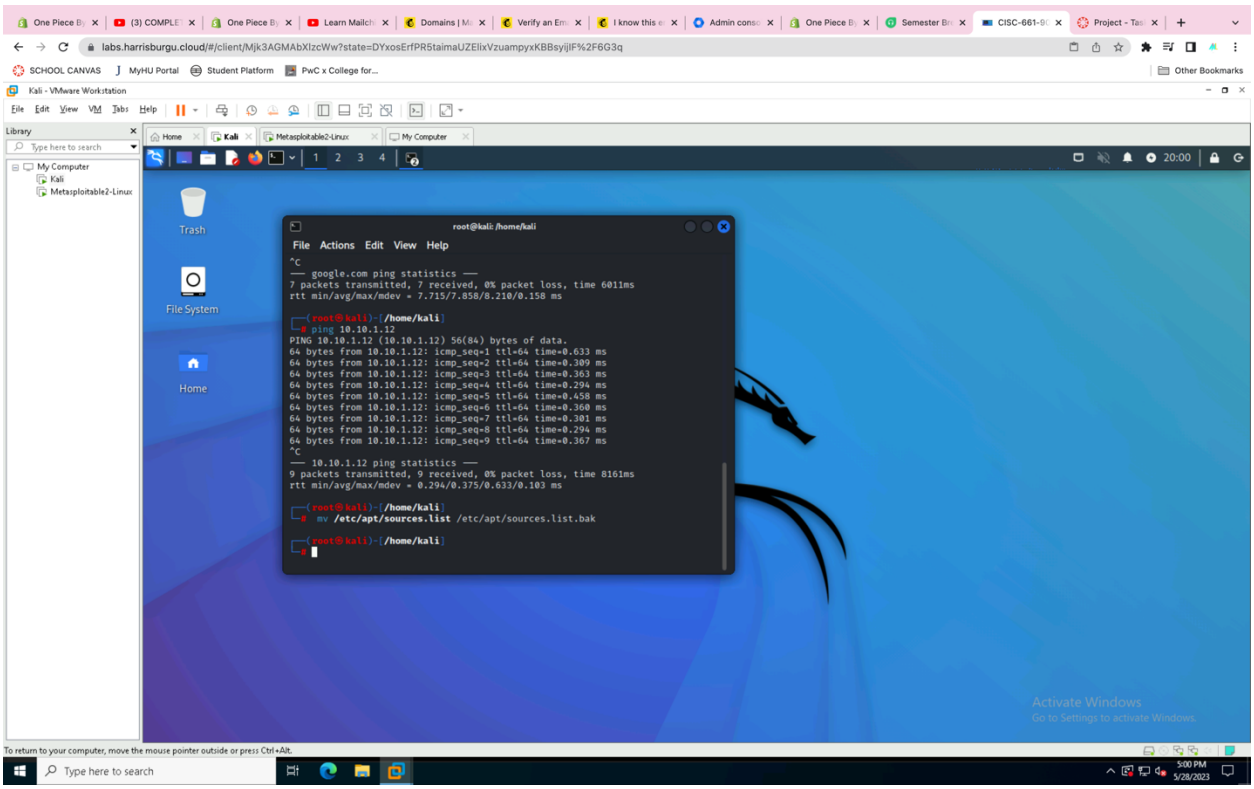
- Using Ping to test for connection.



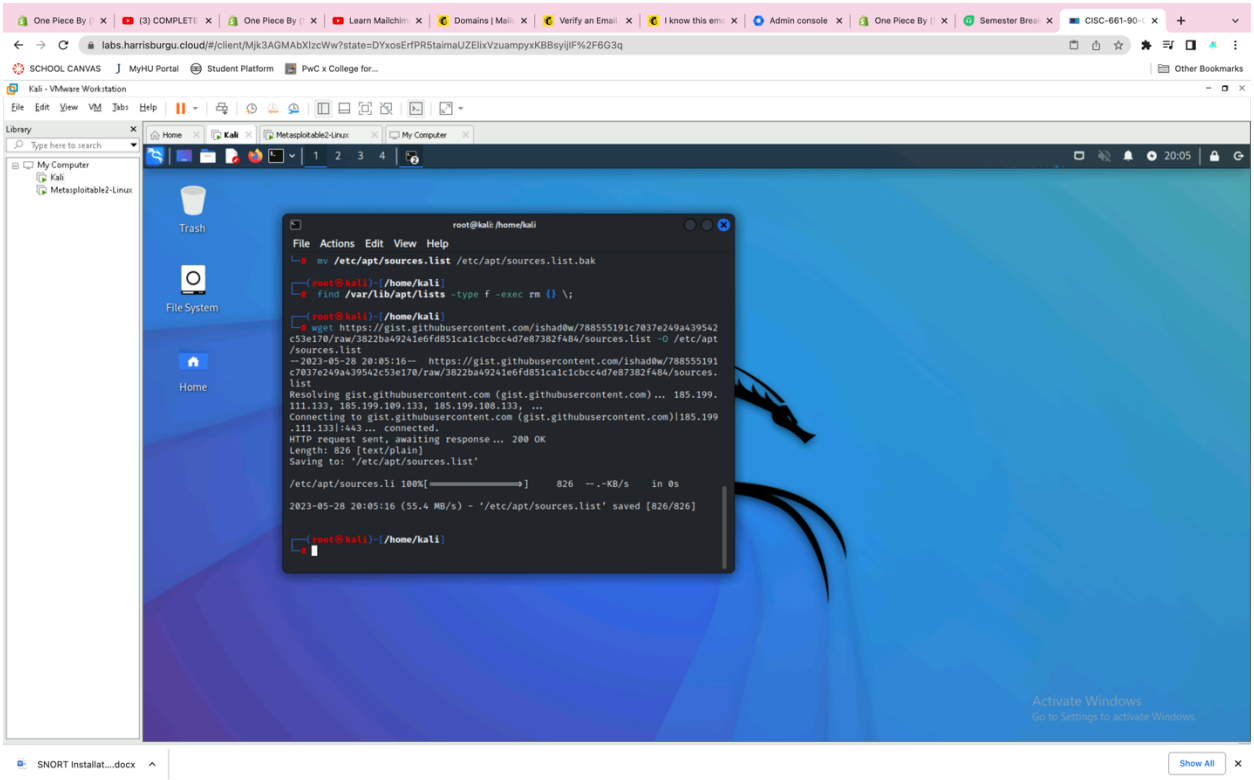


Step 2

- Move sources list by making backup copy

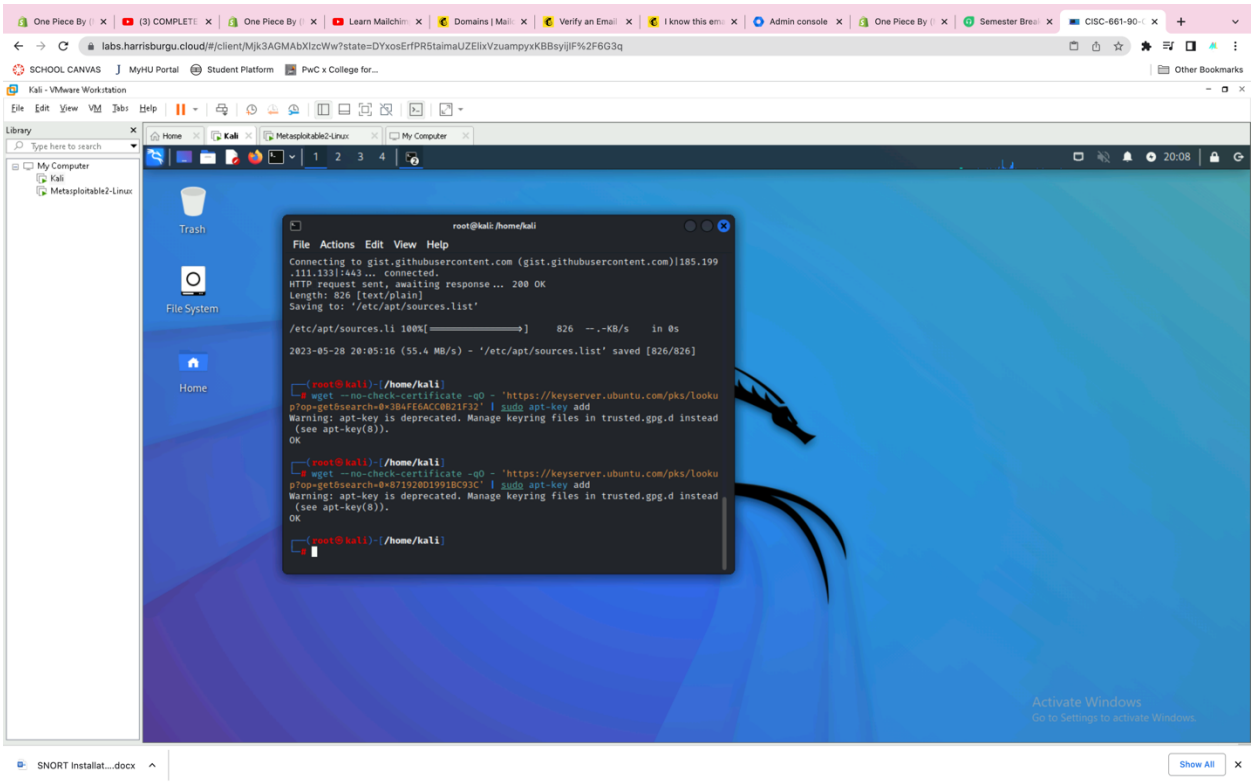


- Create certificate in place to ensure secure connection.

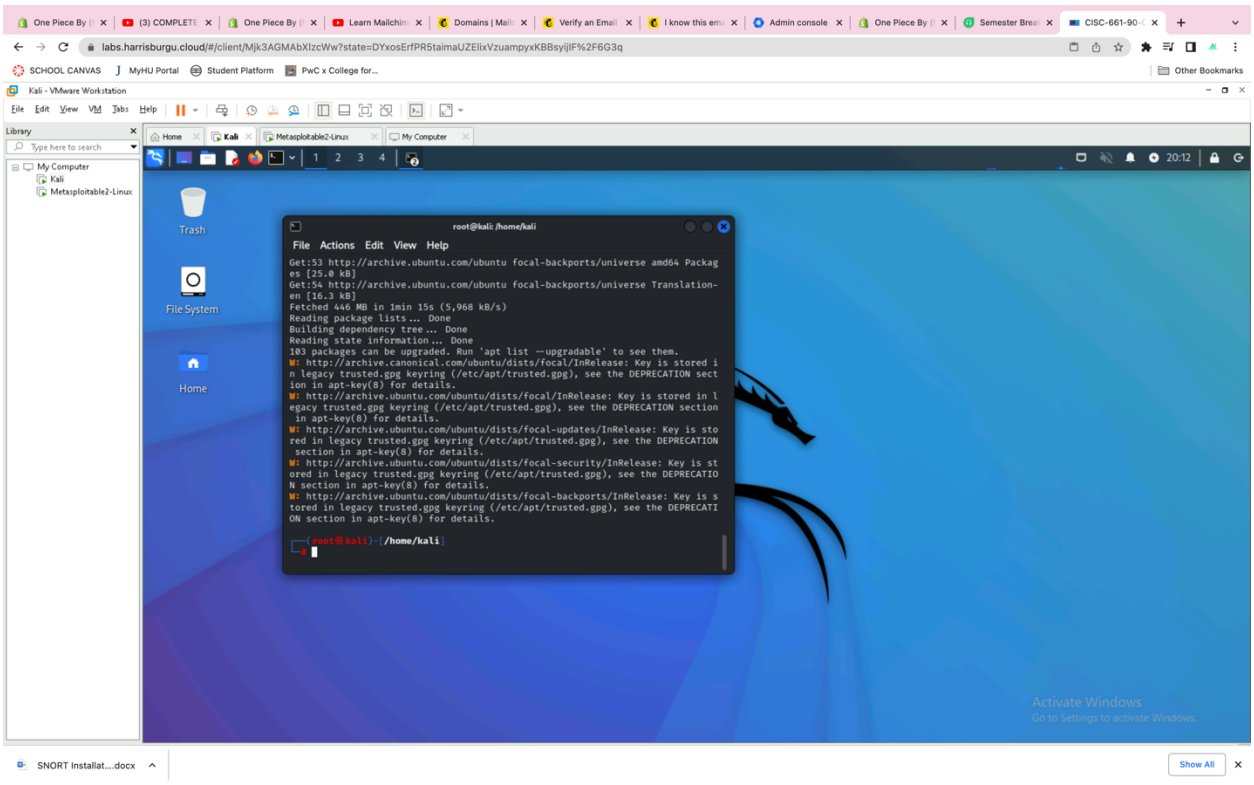


Step 3

- Perform apt update

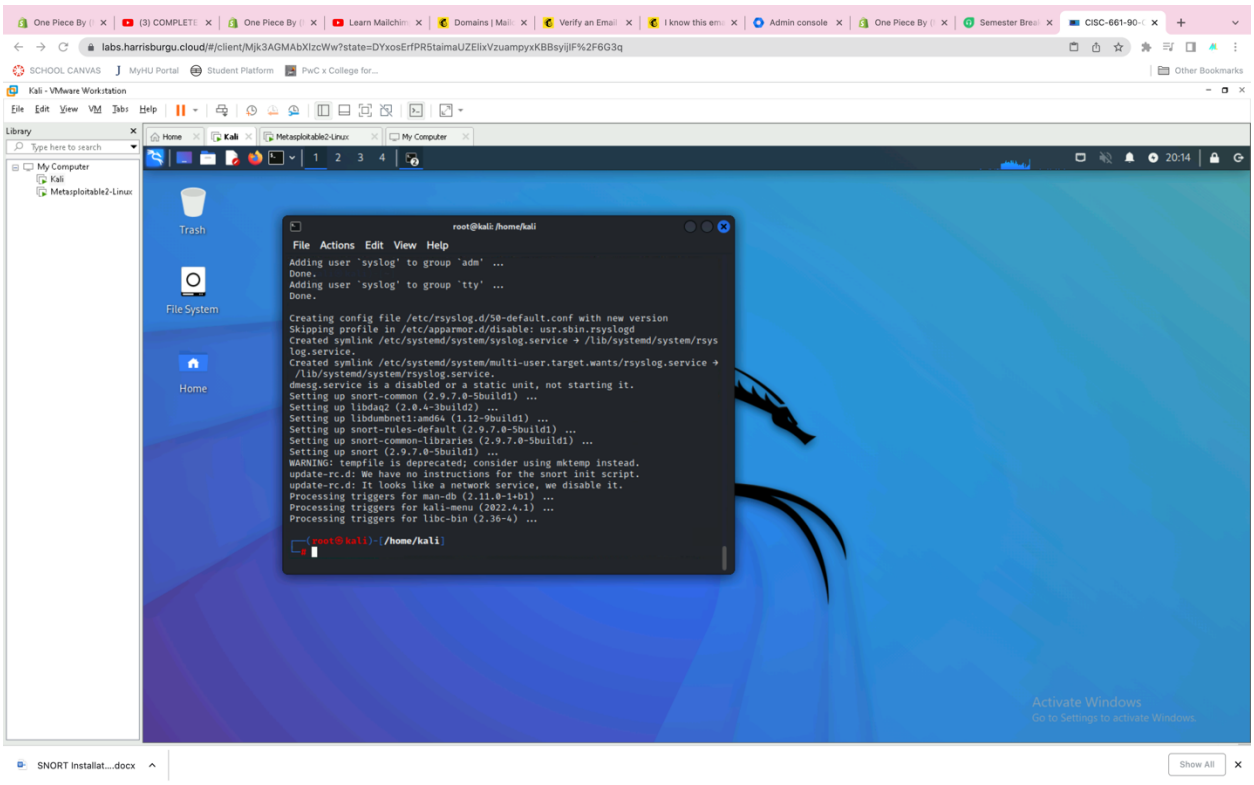


- Perform apt install snort.
- Change default network to local network

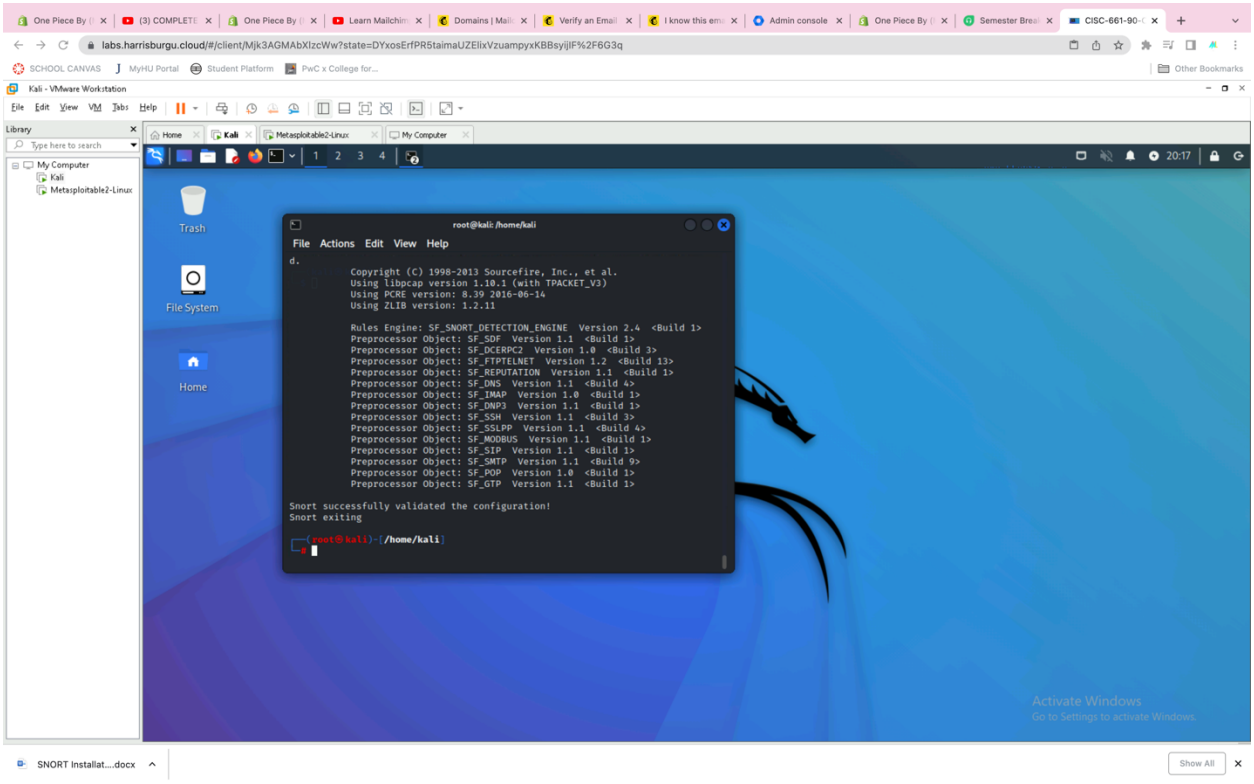


Step 4

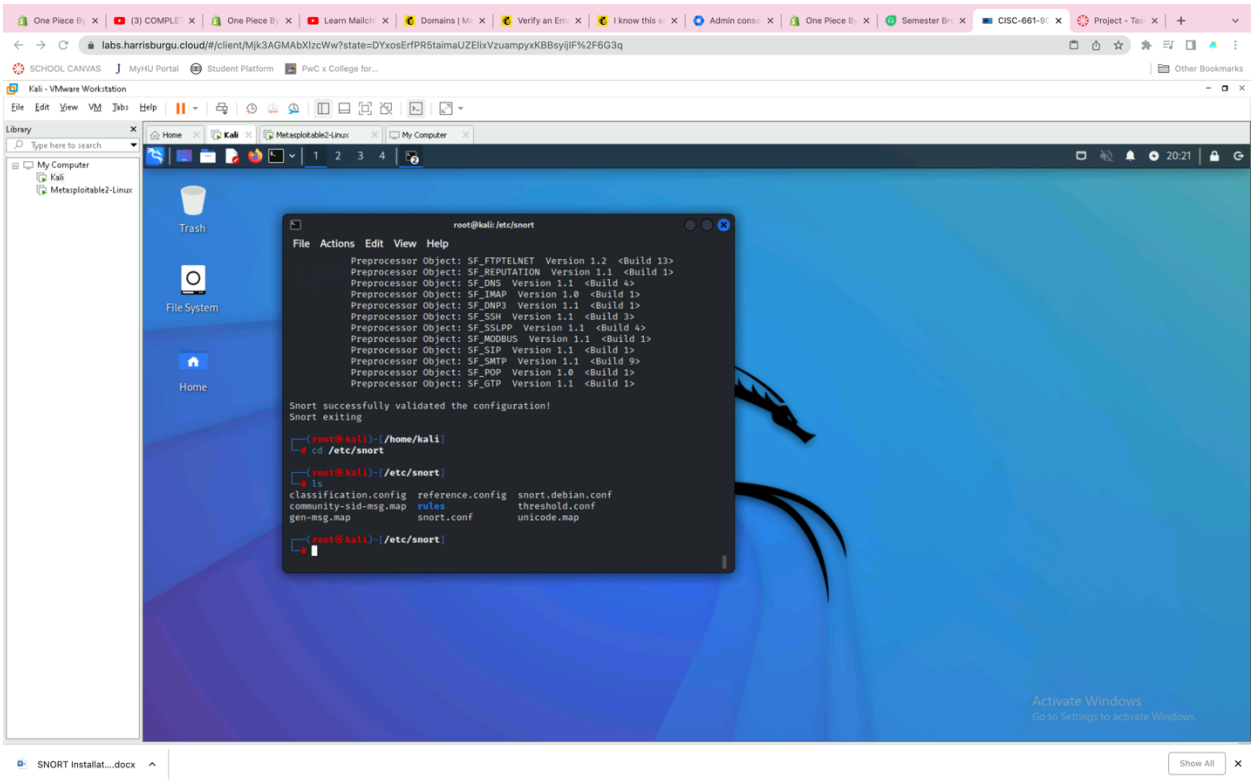
- Move sources file back to original file by overwriting.
- Test configuration



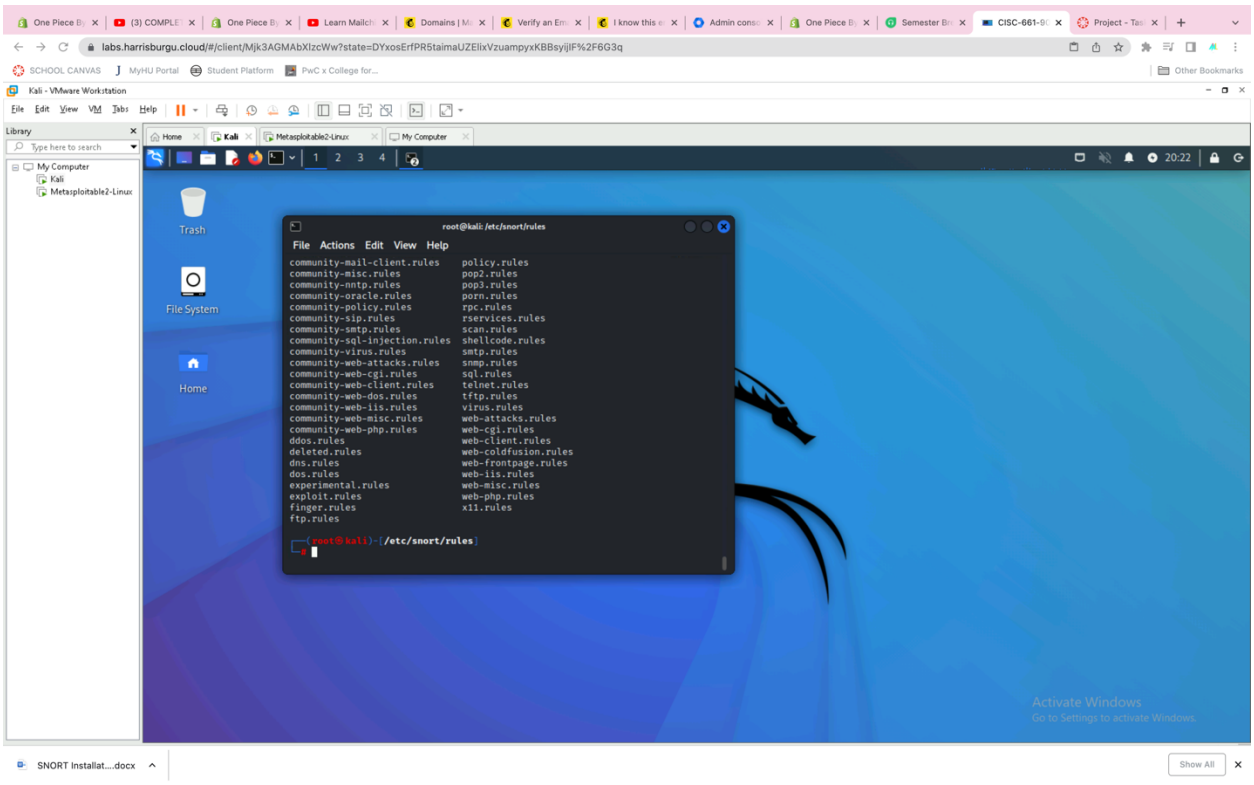
- Access directory where Snort is deployed.

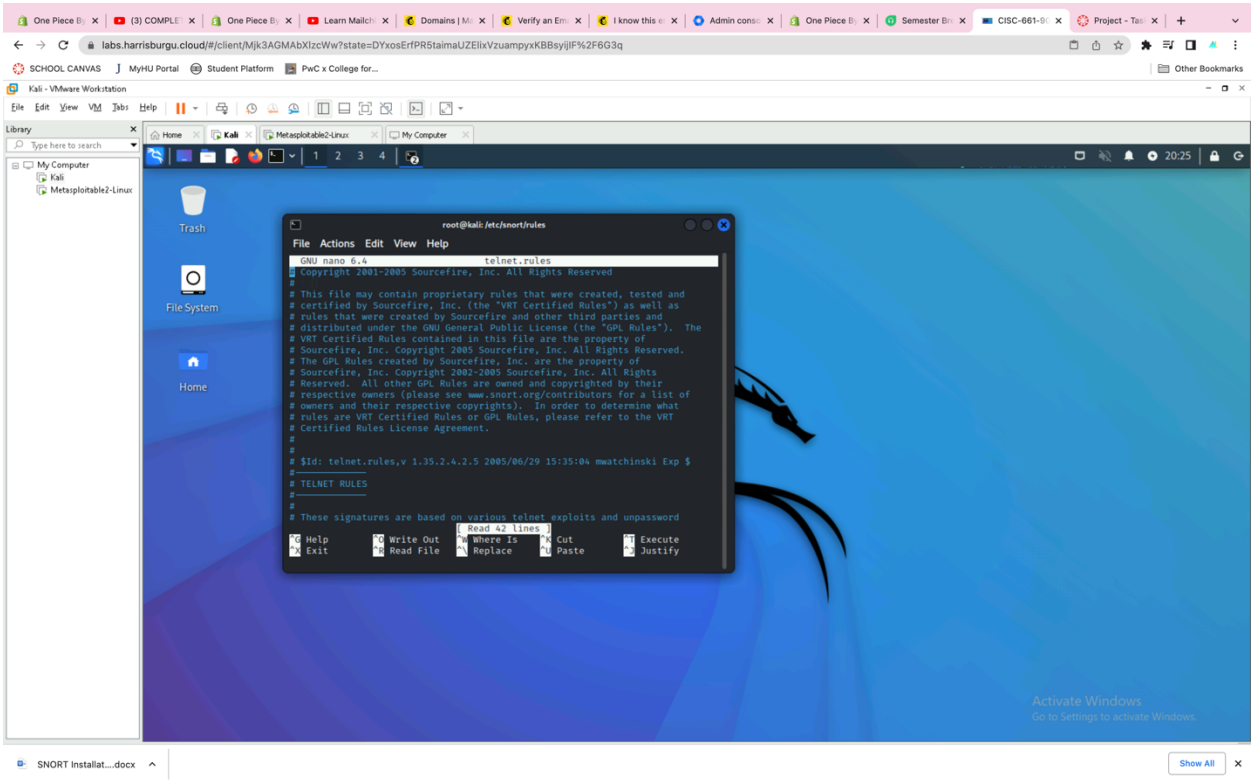


- Access rules file



- Create syntax to detect activity using “telnet.rules”


labs.harrisburgu.cloud/#/client/Mjk3AGMAbXlzcWw?state=DYxosErfPR5taimaUZElixVzuampyxKBBsyijlF%2F6G3q
Kali - VMware Workstation
root@kali: /etc/snort/rules
File Actions Edit View Help
community-mail-client.rules
community-misc.rules
community-nntp.rules
community-oracle.rules
community-policy.rules
community-sip.rules
community-smtp.rules
community-sql-injection.rules
community-virus.rules
community-web-attacks.rules
community-web-cgi.rules
community-web-client.rules
community-web-dos.rules
community-web-iis.rules
community-web-misc.rules
community-web-php.rules
ddos.rules
deleted.rules
dns.rules
dos.rules
experimental.rules
exploit.rules
finger.rules
ftp.rules
policy.rules
pop2.rules
pop3.rules
porn.rules
rpc.rules
rservices.rules
scan.rules
shellcode.rules
smtp.rules
snmp.rules
sql.rules
telnet.rules
tftp.rules
virus.rules
web-attacks.rules
web-cgi.rules
web-client.rules
web-coldfusion.rules
web-frontpage.rules
web-iis.rules
web-misc.rules
web-php.rules
x11.rules
(root㉿kali)-[/etc/snort/rules]
Trash
File System
Home
Activate Windows
SNORT Installat....docx
Show All


labs.harrisburgu.cloud/#/client/Mjk3AGMAbXlzcWw?state=DYxosErfPR5taimaUZElixVzuampyxKBBsyijlF%2F6G3q
Kali - VMware Workstation
root@kali: /etc/snort/rules
File Actions Edit View Help
GNU nano 6.4 telnet.rules
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#
This file may contain proprietary rules that were created, tested and
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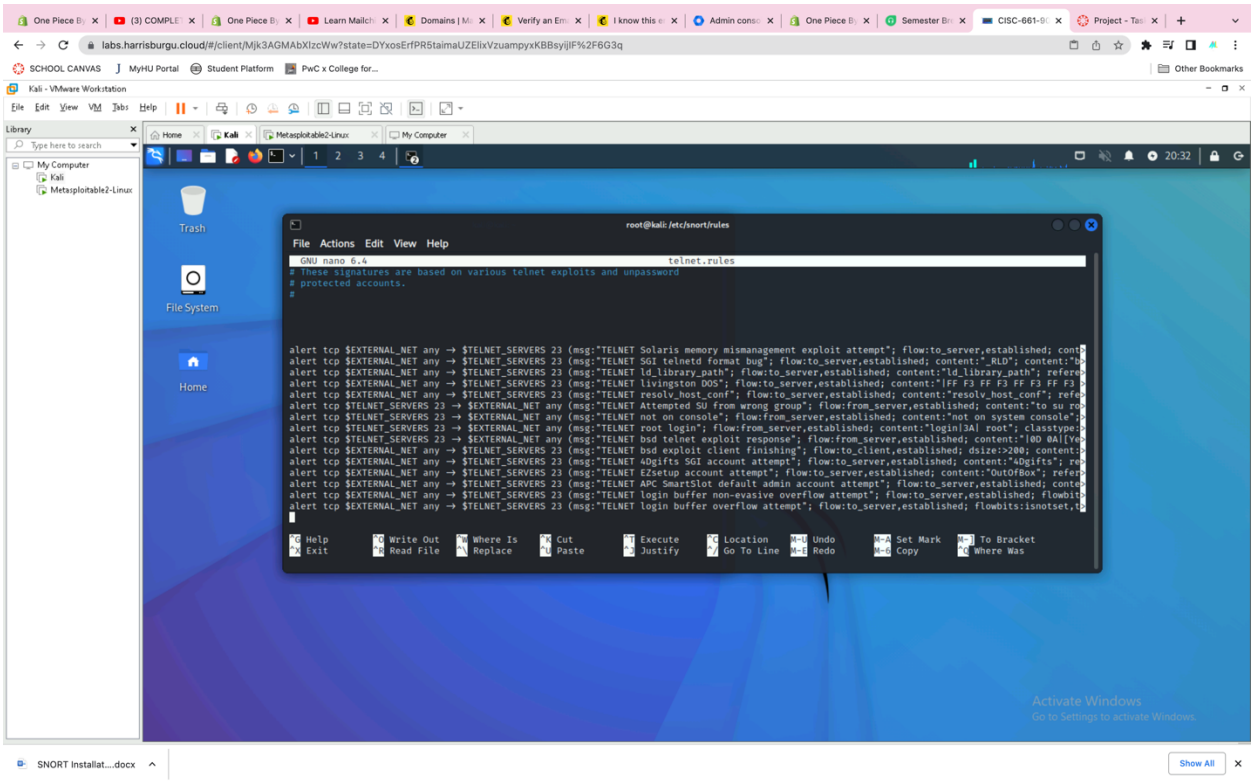
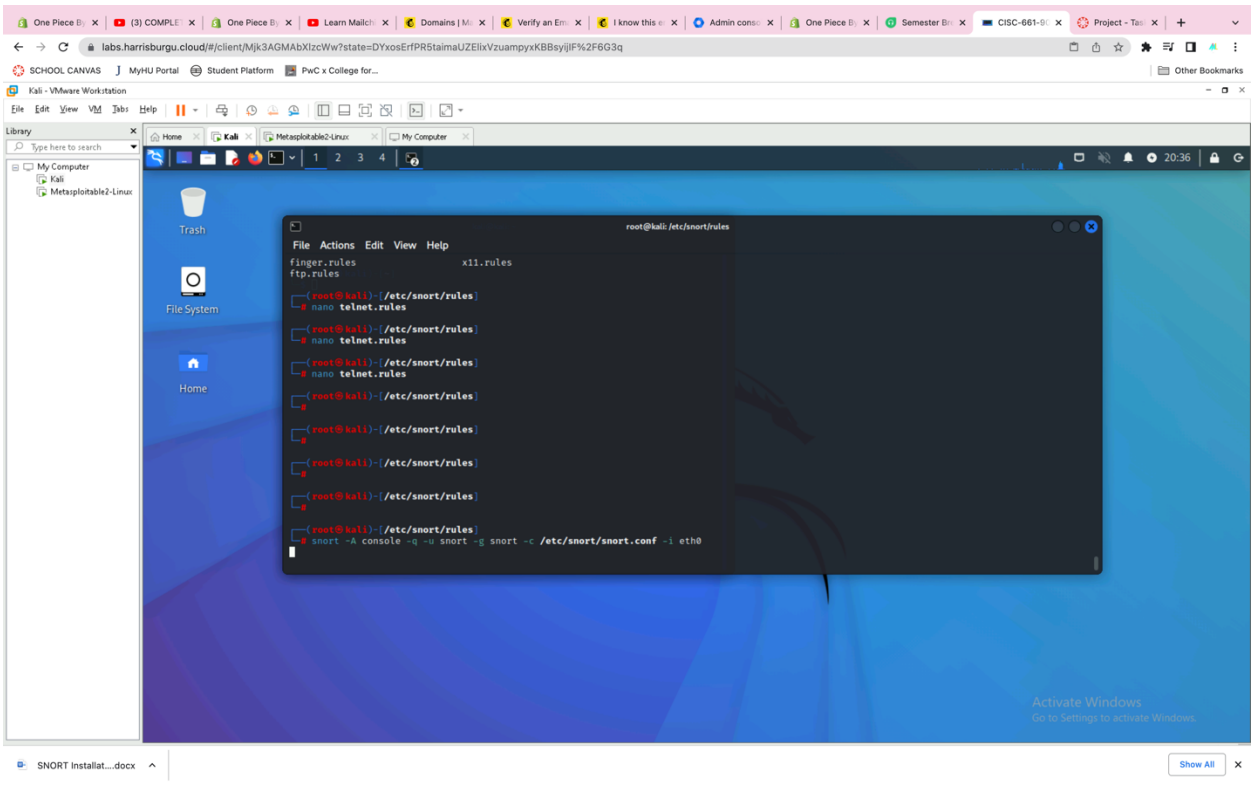
Certified Rules License Agreement.
#
#
$Id: telnet.rules,v 1.35.2.4.2.5 2005/06/29 15:35:04 mwatchinski Exp $
#----------
TELNET RULES
#----------
#
These signatures are based on various telnet exploits and unpassword
[Read 42 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify
Trash
File System
Home
Activate Windows
SNORT Installat....docx
Show All

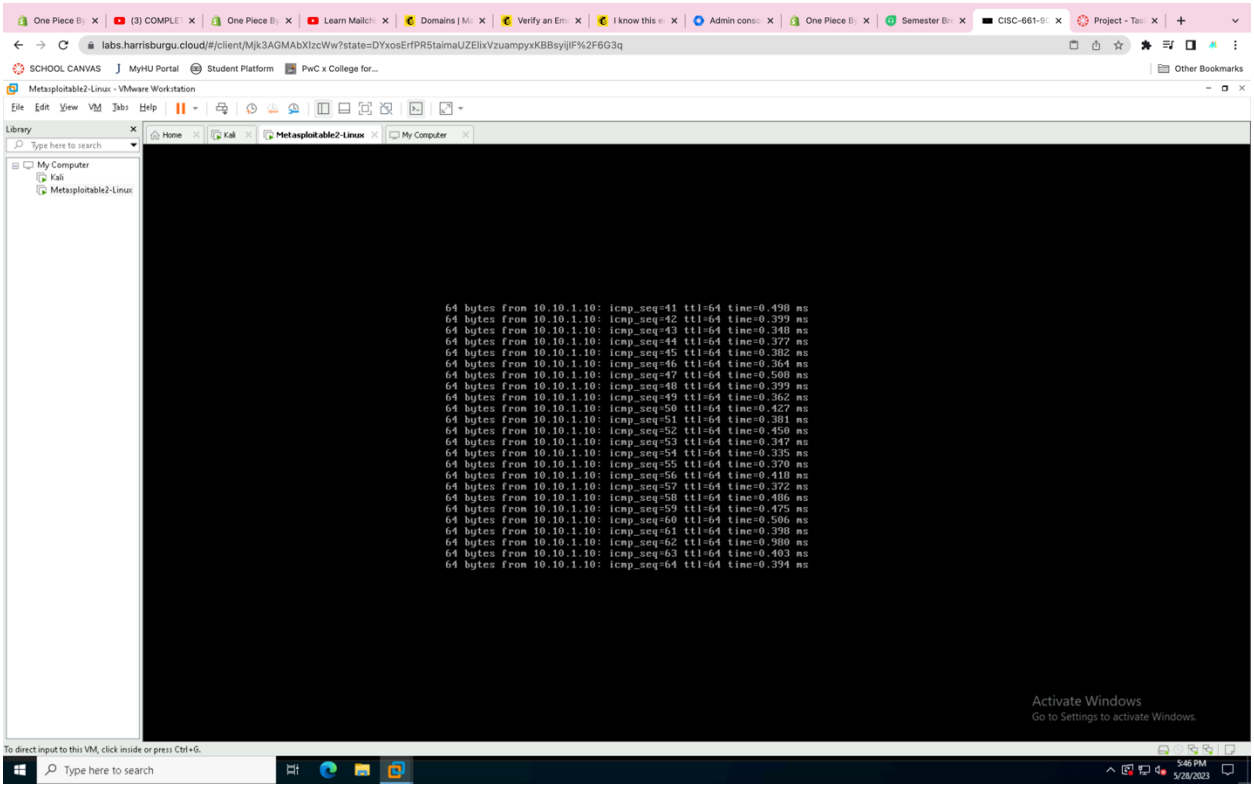
- Add command rule to alert tcp



- Start display information from detection on our screen.



- Ping 10.10.1.10 on Metasploitable



- Detection is then shown on Kali.