UNIVERISITY CYBER ATTACK PROJECT

Investigater: Terakala sai teja

Client details

Complete Name: Samantha R.collen

Personal email id: Samantha.collen,r@gmail.com

Official email id:profsamantha@pu.edu.com

Task 1: Obtain a scanning report of the entire network and identify how many terminals are connected with the Windows operating system and the Linux-based systems.

Note: Learners can use any platform like Kali Linux.

1. Install Nessus:

   - Visit the Nessus download page: https://www.tenable.com/products/nessus

   - Download and install Nessus for your platform.

2. Configure Nessus:

   - Open Nessus in your web browser (usually https://localhost:8834).

   - Complete the initial setup and create a user account.

3. Create a New Scan:

   - Click on 'New Scan'.

   - Select 'Basic Network Scan' template.

   - Enter the scan details, including the IP range (e.g., 192.168.1.0/24).

4. Run the Scan:

   - Start the scan and wait for it to complete.

5. Analyze the Results:

   - View the scan results to identify the devices on the network.

   - Look for details about the operating systems and any detected vulnerabilities.

Command Prompt

```
Microsoft Windows [Version 10.0.22631.3880]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

   Media State . . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

   Media State . . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 10:

   Media State . . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

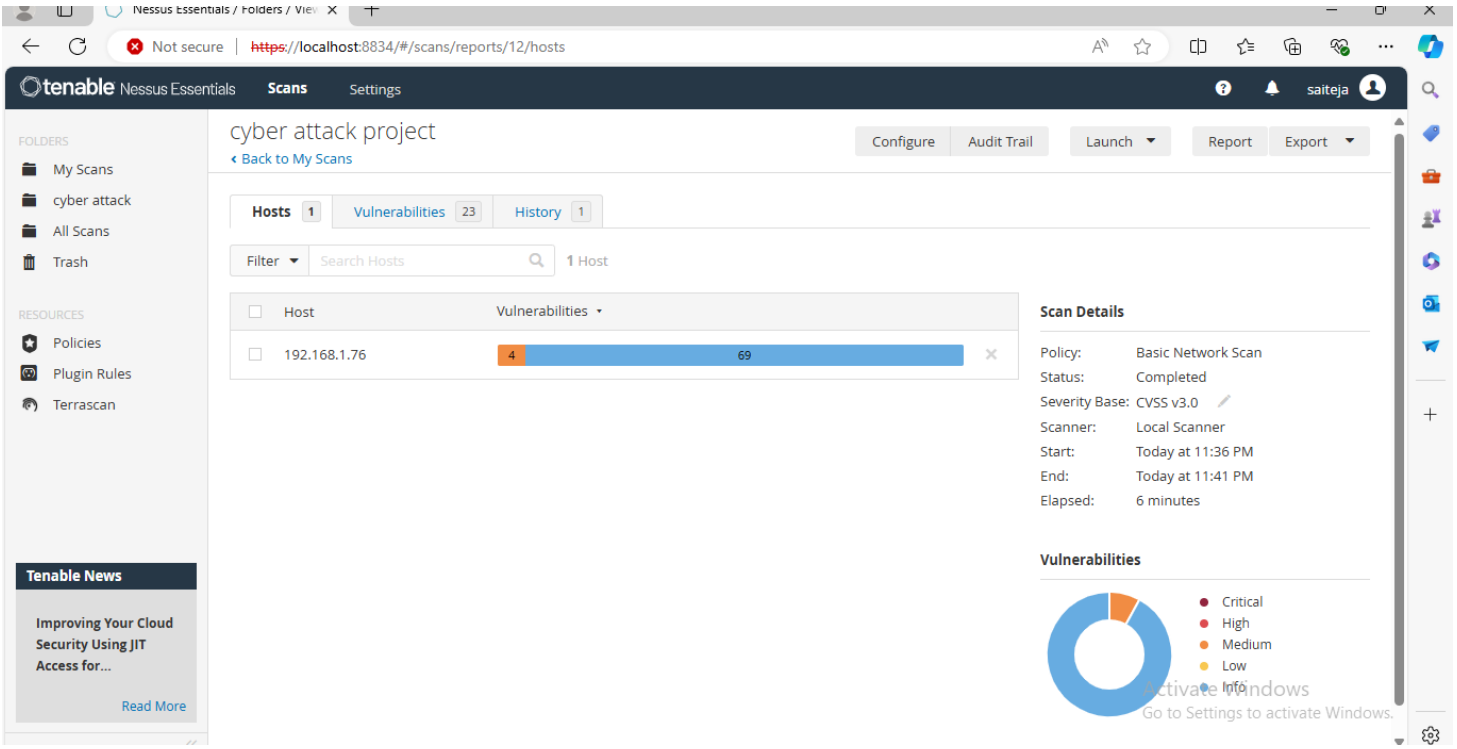
Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::563:8903:be33:ca26%3
   IPv4 Address. . . . . . . . . . . : 192.168.1.76
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.254

Ethernet adapter Bluetooth Network Connection:

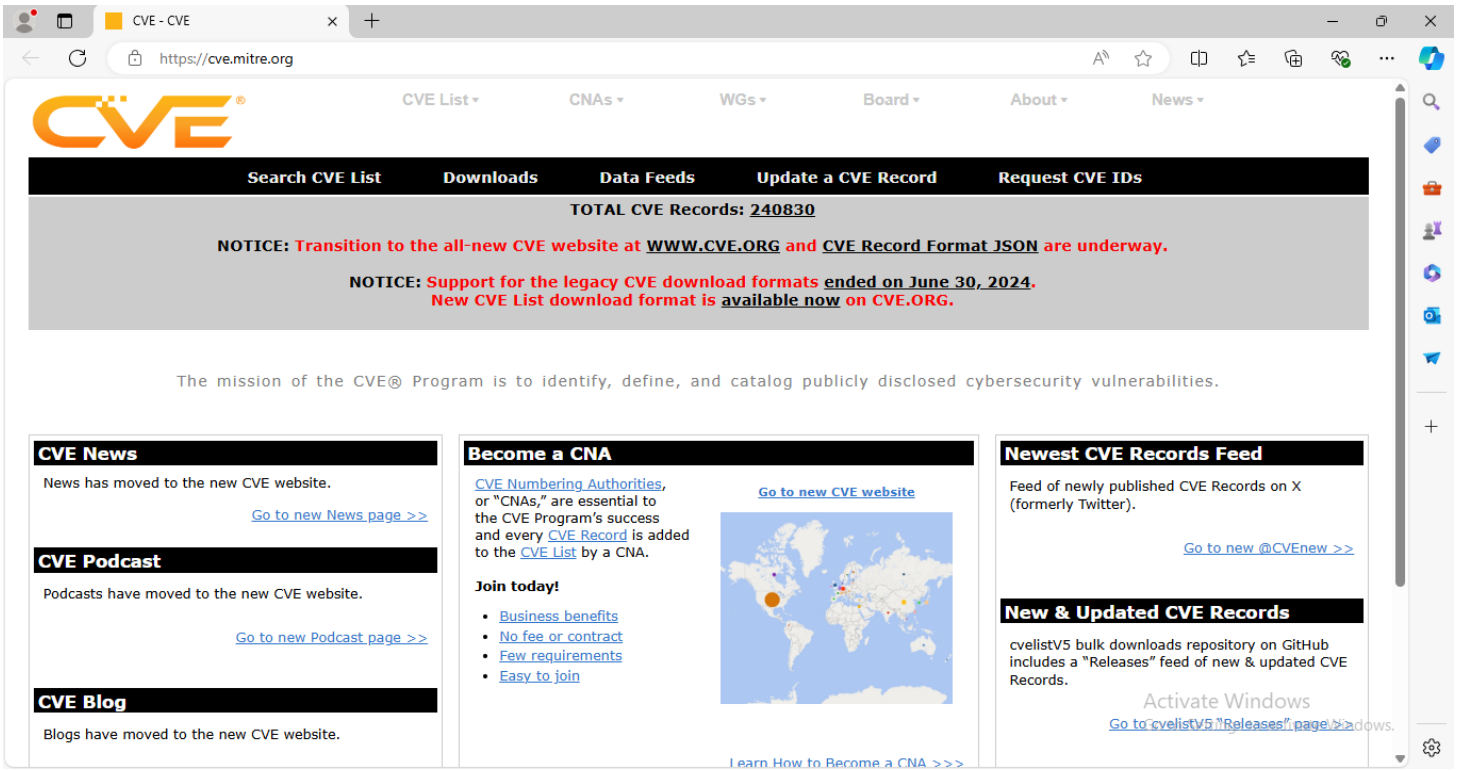
   Media State . . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

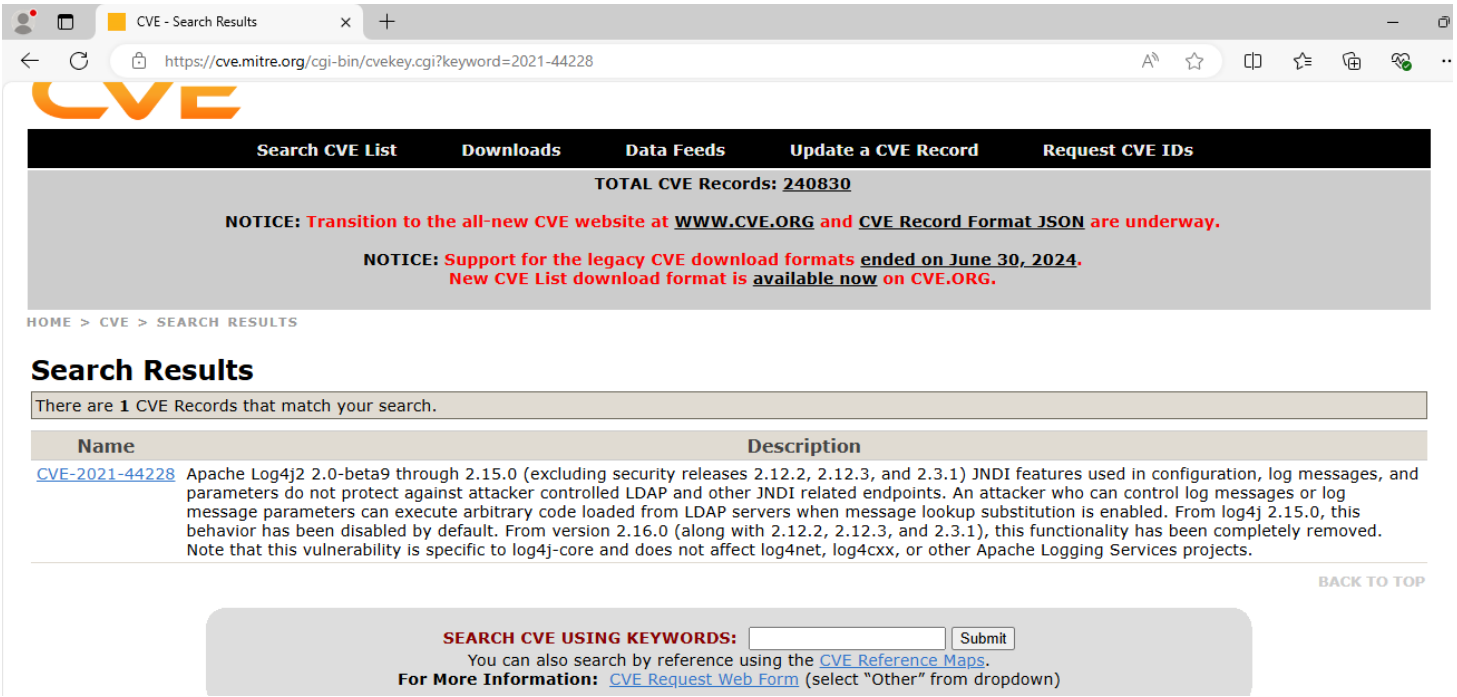
C:\Users\HP>
```



Task 2: Identify CVE score of the victim's vulnerability.

Note: Learners can use any open-source data sets for vulnerability like NVD (National Vulnerability Database).





https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=CVE+2021-44228

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Search CVE List | Downloads | Data Feeds | Update a CVE Record | Request CVE IDs

TOTAL CVE Records: 240830

NOTICE: Transition to the all-new CVE website at WWW.CVE.ORG and CVE Record Format JSON are underway.

NOTICE: Support for the legacy CVE download formats ended on June 30, 2024.
New CVE List download format is available now on CVE.ORG.

HOME > CVE > SEARCH RESULTS

Search Results

There are **18825** CVE Records that match your search.

Name	Description
CVE-2024-7081	A vulnerability was found in itsourcecode Tailoring Management System 1.0. It has been rated as critical. Affected by this issue is some unknown functiona file expcatadd.php. The manipulation of the argument title leads to sql injection. The attack may be launched remotely. The exploit has been disclosed to and may be used. VDB-272366 is the identifier assigned to this vulnerability.
CVE-2024-7080	A vulnerability was found in SourceCodester Insurance Management System 1.0. It has been declared as problematic. Affected by this vulnerability is an u functionality of the file /E-Insurance/. The manipulation leads to direct request. The attack can be launched remotely. The exploit has been disclosed to th may be used. The identifier VDB-272365 was assigned to this vulnerability.
CVE-2024-7079	A flaw was found in the Openshift console. The /API/helm/verify endpoint is tasked to fetch and verify the installation of a Helm chart from a URI that is re HTTP/HTTPS or local. Access to this endpoint is gated by the authHandlerWithUser() middleware function. Contrary to its name, this middleware function verify the validity of the user's credentials. As a result, unauthenticated users can access this endpoint.
CVE-2024-7069	A vulnerability, which was classified as critical, has been found in SourceCodester Employee and Visitor Gate Pass Logging System 1.0. This issue affects s unknown processing of the file /employee_gatepass/classes/Master.php?f=delete_department. The manipulation of the argument id leads to sql injection. may be initiated remotely. The exploit has been disclosed to the public and may be used. The associated identifier of this vulnerability is VDB-272351.
CVE-2024-7068	A vulnerability classified as problematic has been found in SourceCodester Insurance Management System 1.0. This affects an unknown part of the file

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Task 3: Identify whether the victim's terminal is affected with MiMT attack or not and submit the incident report for the same.

Note: Learners can orchestrate any attacks like Denial-of-service attack and create reports based on it.

To identify if the victim's terminal is affected by a MiTM attack:

1. Monitor network traffic for unusual patterns.
2. Use tools like Wireshark to capture and analyze packets.
3. Look for signs of interception or manipulation.

Signs of MiTM Attack:

Unexpected ARP replies.

```
C:\Users\HP>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

   Media State . . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

   Media State . . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::866:39d4:3ce:beef%3
   IPv4 Address. . . . . . . . . . . : 192.168.1.76
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.254

Ethernet adapter Bluetooth Network Connection:

   Media State . . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

C:\Users\HP>
```

kali-linux-2024.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

1 2 3 4

kali@kali: ~

File Actions Edit View Help

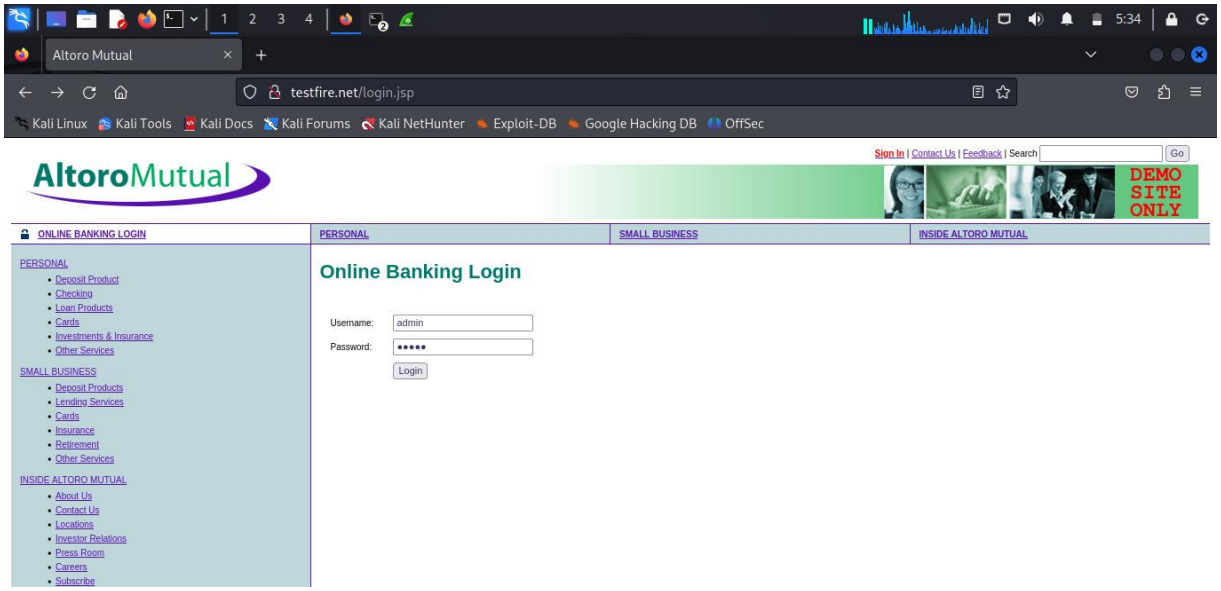
```
zsh: corrupt history file /home/kali/.zsh_history
┌──(kali㉿kali)-[~]
└─$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
        inet6 fe80::f79f:4c5f:6cdb:a166  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:d2:26:79  txqueuelen 1000  (Ethernet)
        RX packets 133  bytes 53128 (51.8 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 151  bytes 20331 (19.8 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

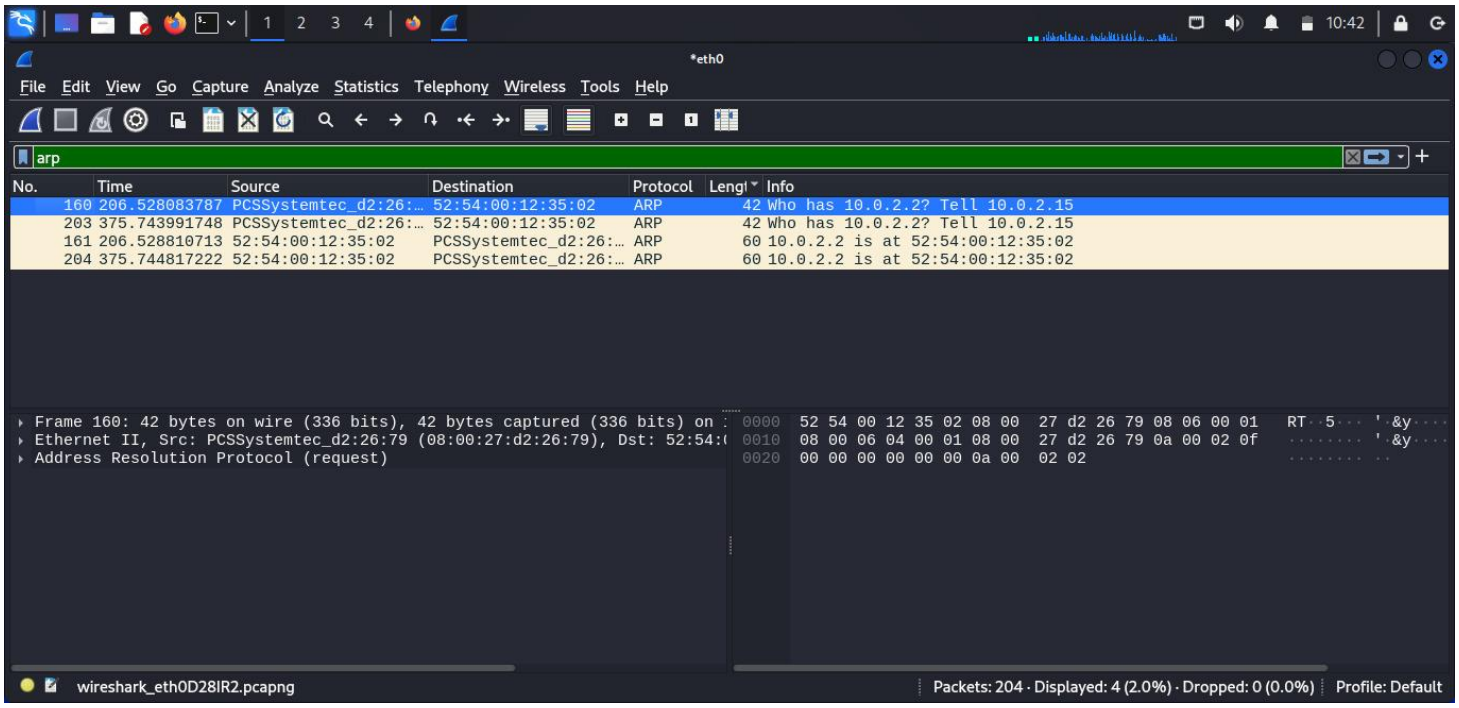
lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 8  bytes 480 (480.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 8  bytes 480 (480.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

```
92.168.1.255          ff-ff-ff-ff-ff-ff     static
24.0.0.22             01-00-5e-00-00-16     static
24.0.0.251            01-00-5e-00-00-fb     static
24.0.0.252            01-00-5e-00-00-fc     static
39.255.102.18         01-00-5e-7f-66-12     static
39.255.255.250        01-00-5e-7f-ff-fa     static
55.255.255.255        ff-ff-ff-ff-ff-ff     static
```

```
nterface: 192.168.1.76 --- 0x3
  Internet Address      Physical Address      Type
  192.168.1.65          3c-57-6c-2e-15-df     dynamic
  192.168.1.66          be-37-92-39-22-99     dynamic
  192.168.1.78          52-5b-2c-93-be-05     dynamic
  192.168.1.86          10-5a-17-c5-48-db     dynamic
  192.168.1.98          74-97-79-05-be-e3     dynamic
  192.168.1.254         78-17-35-96-1b-50     dynamic
```

```
sudo nmap -sn 10.0.2.15/24
sudo] password for kali:
aliSorry, try again.
sudo] password for kali:
tarting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-26 10:
map scan report for 10.0.2.2
ost is up (0.00014s latency).
AC Address: 52:54:00:12:35:02 (QEMU virtual NIC)
map scan report for 10.0.2.3
ost is up (0.00012s latency).
AC Address: 52:54:00:12:35:03 (QEMU virtual NIC)
map scan report for 10.0.2.4
ost is up (0.00021s latency).
AC Address: 52:54:00:12:35:04 (QEMU virtual NIC)
```





Task 4: Use email forensics analysis and identify the sender's IP address

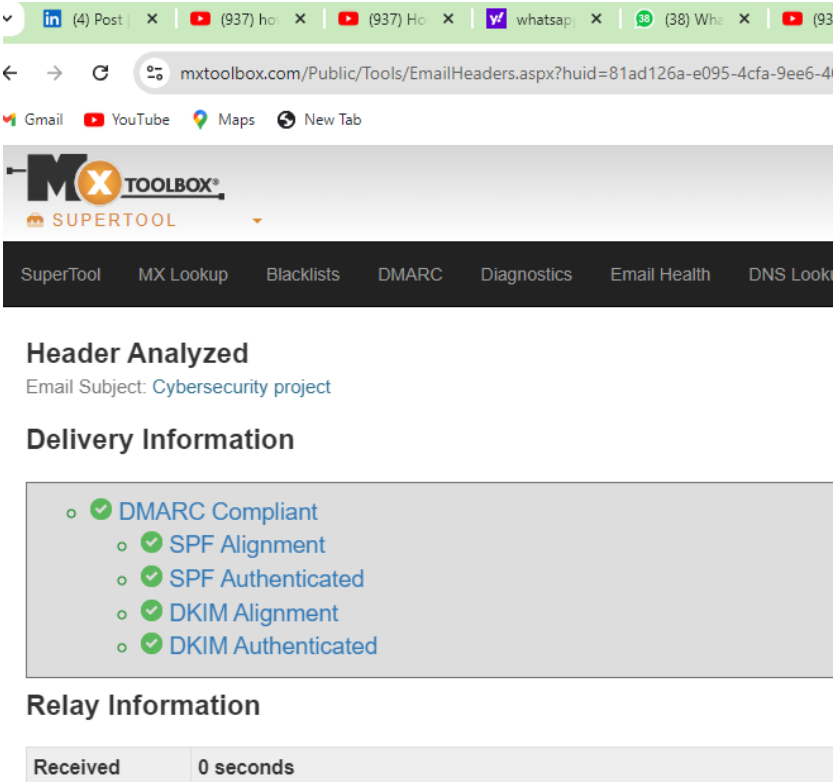
Note: Learners can create a dummy email ID, perform this task, or send an email to anyone. They can identify the sender's IP address.

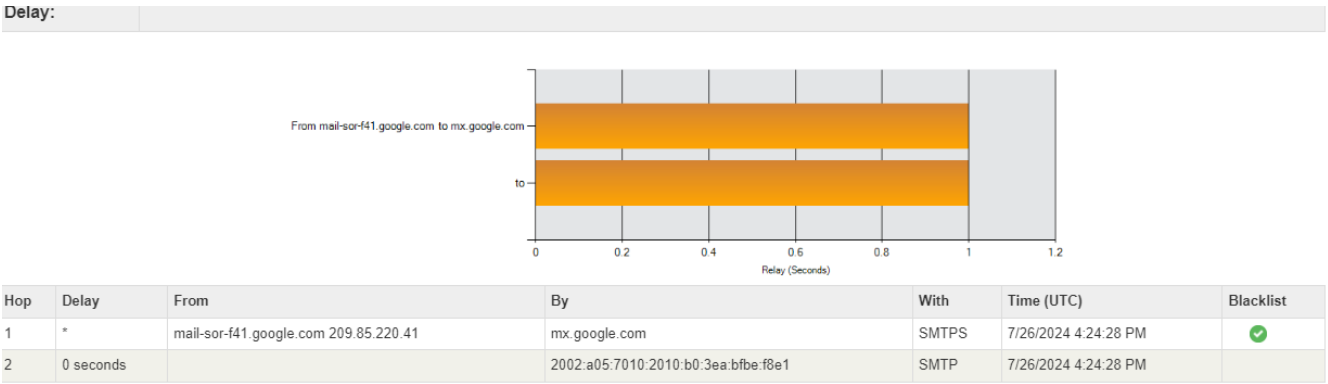
To identify the sender's IP address from an email:

1. Open the email and view its headers.

2. Look for the 'Received: from' field to find the sender's IP address.

3. Tools like Email Header Analyzer can help in parsing the headers.





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AC Address: 52:54:00:12:35:03 (QEMU virtual NIC)
map scan report for 10.0.2.4
ost is up (0.00021s latency).
AC Address: 52:54:00:12:35:04 (QEMU virtual NIC)
```

Task5: Submit the complete incidence report