Analyzing a suspicious emails (Tryhackme)

Tuesday, October 31, 2023 3:03 PM

This is a part of my Threat Intelligence Tools Practices

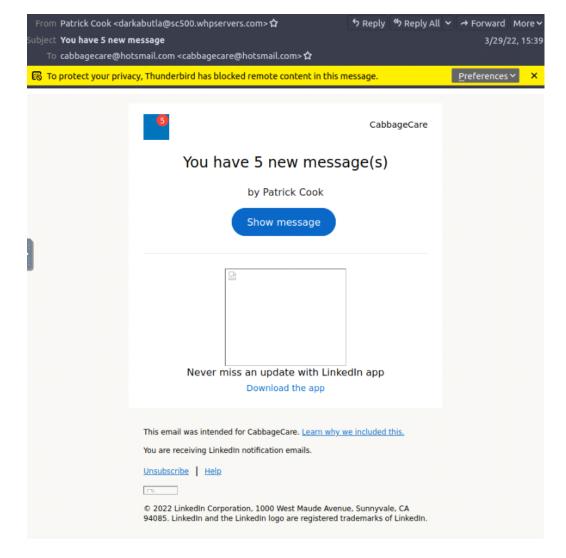
I am tasked to analyze 3 suspicious emails and reply to few questions:





First I opened the file Using Thunderbird on My VM Machine

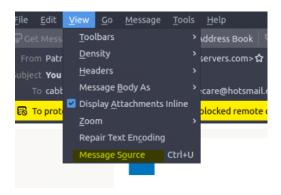




Question1:

What is the Originating IP address? Defang the IP address.

First open The Message Source:



And look for the Sender IP

```
Authentication-Results: sp1=none (sender IP is 204.93.183.11) smtp.mailfrom=sc500.whpservers.com; dkim=none (message not signed) header.d=none;dmarc=none action=none header.from=sc500.whpservers.com;compauth=pass reason=105 Received-SPF: None (protection.outlook.com: sc500.whpservers.com does not designate permitted sender hosts)
```

Now Defang it: I prefer using a simple python script

```
import re
def Defanged_IP(Str):
    x=re.sub("[.]","[.]",Str)
    print(x)
Str="1.1.1.2"
Defanged_IP(Str)
S = "204.93.183.11"
Defanged_IP(S)
```

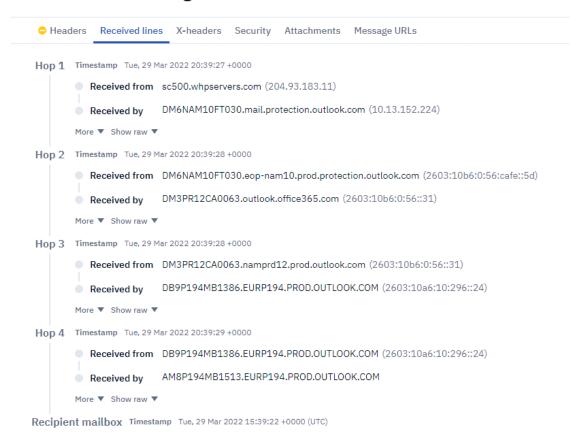
So the answer is: 204[.]93[.]183[.]11

Question2:

How many hops did the email go through to get to the recipient?

I used PhishTool

You have 5 new message 🔗



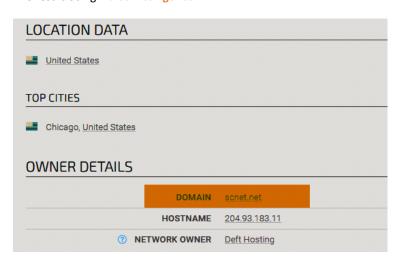
So the answer is: 4

Ps: hop count is an important concept in networking and cybersecurity. It is used to analyze network topology, assess routing behavior, implement access controls, and monitor network performance. Understanding hop counts can help identify and address potential security risks and anomalies in a network.

Question3:

What is the listed domain of the Sender IP address?

The result Using Talos Intelligence:



So the domain name is: scnet.net

Question4:

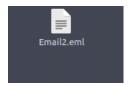
What is the customer name of the IP address?

Using the same tool Talos Intelligence:

```
CustName: Complete Web Reviews
Address: 415 W Golf Rd
Address: Suite #5
City: Arlington Heights
StateProv: IL
PostalCode: 60005
Country: US
RegDate: 2014-06-06
Updated: 2014-06-06
Ref: https://rdap.arin.net/registry/entity/C05082466
```

So the name is: Complete Web Reviews





(The same previously used steps to open the File)

Question:

From Talos Intelligence, the attached file can also be identified by the Detection Alias that starts with an H...

First I need to generate the file hash

```
ubuntu@tryhackme:-$ ls

Desktop Downloads Pictures Templates go outgoingsmtp.json

Documents Music Public Videos msfinstall setoolkit

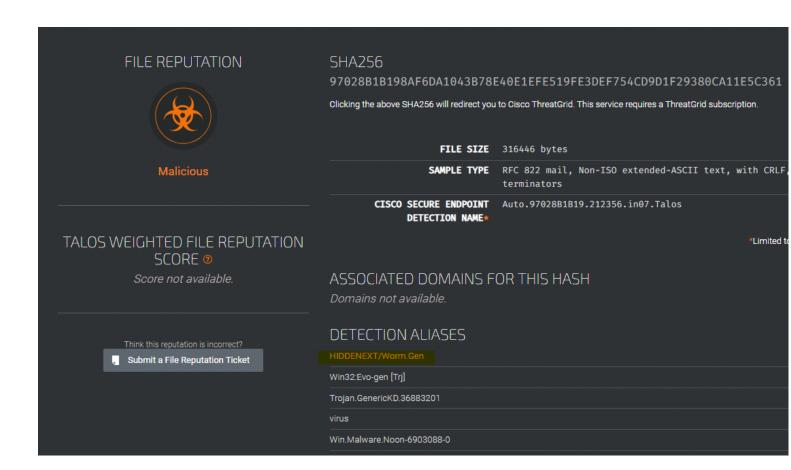
ubuntu@tryhackme:-$ cd /home/ubuntu/Desktop/Emails

ubuntu@tryhackme:-/Desktop/Emails$ sha256sum Email2.eml

57028b1b198af6da1043b78e40e1efe519fe3def754cd9d1f29380ca11e5c361 Email2.eml

ubuntu@tryhackme:-/Desktop/Emails$
```

Now I search for the file reputation in **Talos Intelligence**



So the answer is: HIDDENEXT/Worm.Gen

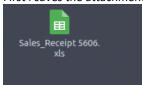




Question:

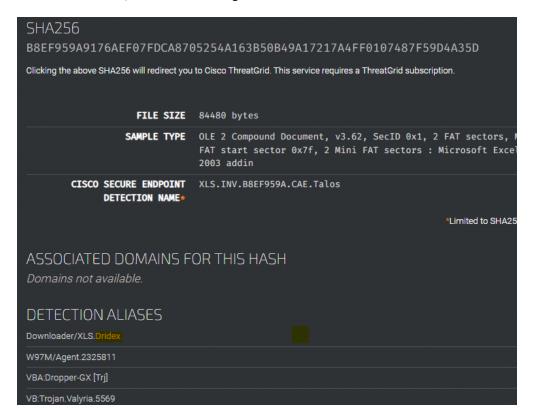
What malware family is associated with the attachment on Email3.eml?

First I saves the attachment



to generate the file hash

```
ubuntu@tryhackme:~$ ls
Desktop Downloads Pictures Templates go outgoingsmtp.json
Documents Music Public Videos msfinstall setoolkit
ubuntu@tryhackme:~$ cd Desktop/
ubuntu@tryhackme:~/Desktop$ cd Emails/
ubuntu@tryhackme:~/Desktop/Emails$ sha256sum Sales_Receipt\ 5606.xls
b8ef959a9176aef07fdca8705254a163b50b49a17217a4ff0107487f59d4a35d
Sales_Receipt
5006.xls
ubuntu@tryhackme:~/Desktop/Emails$
```



So the answer is: Dridex