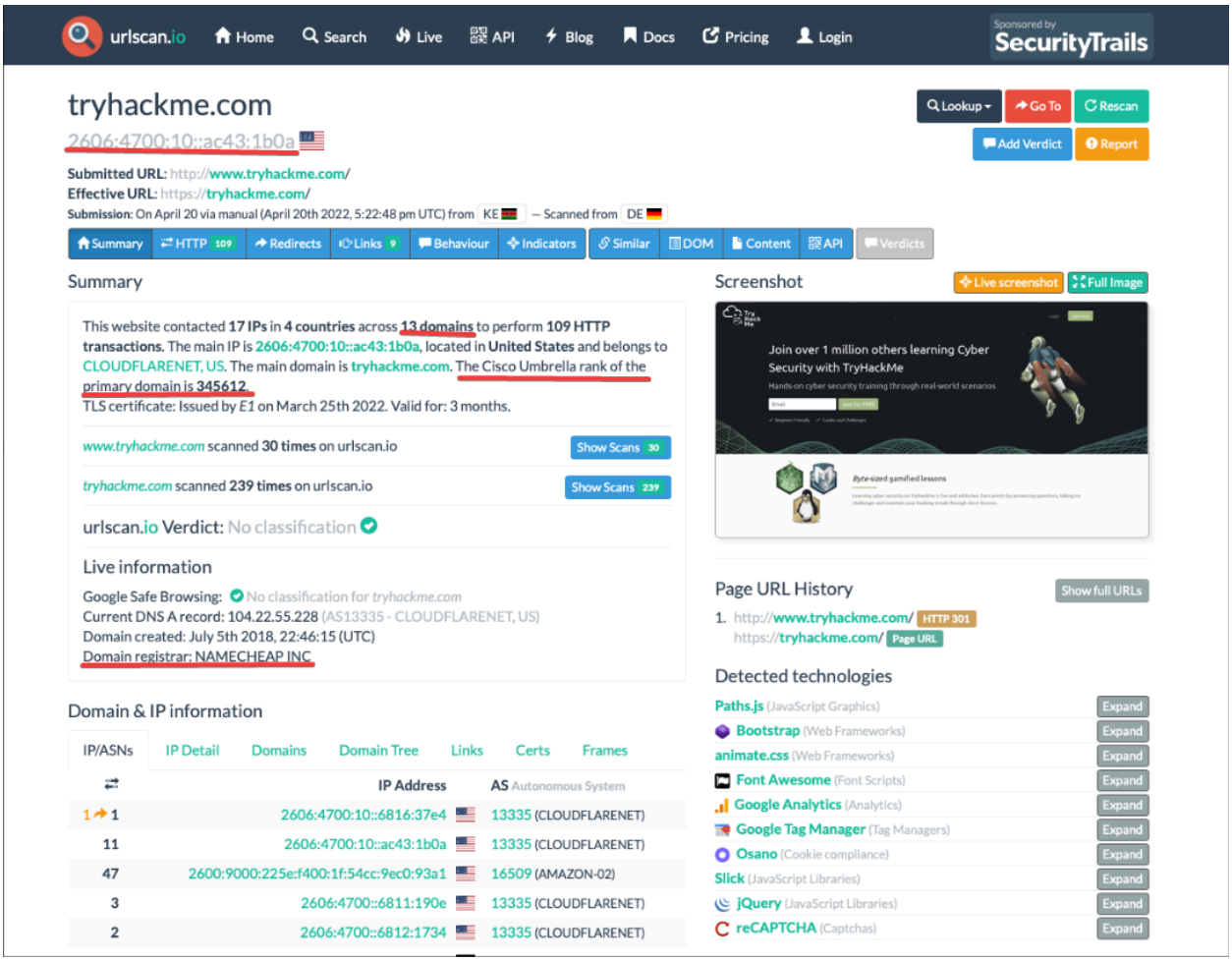
Threat Intelligence Tools

Task3: URLScan.io

You have been tasked to perform a scan on TryHackMe's domain. The results obtained are displayed in the image below. Use the details on the image to answer the questions-



Q: What is TryHackMe's Cisco Umbrella Rank?

A: *345612*

Q: How many domains did UrlScan.io identify?

A: *13*

Q: What is the main domain registrar listed?

A: *NAMECHEAP INC*

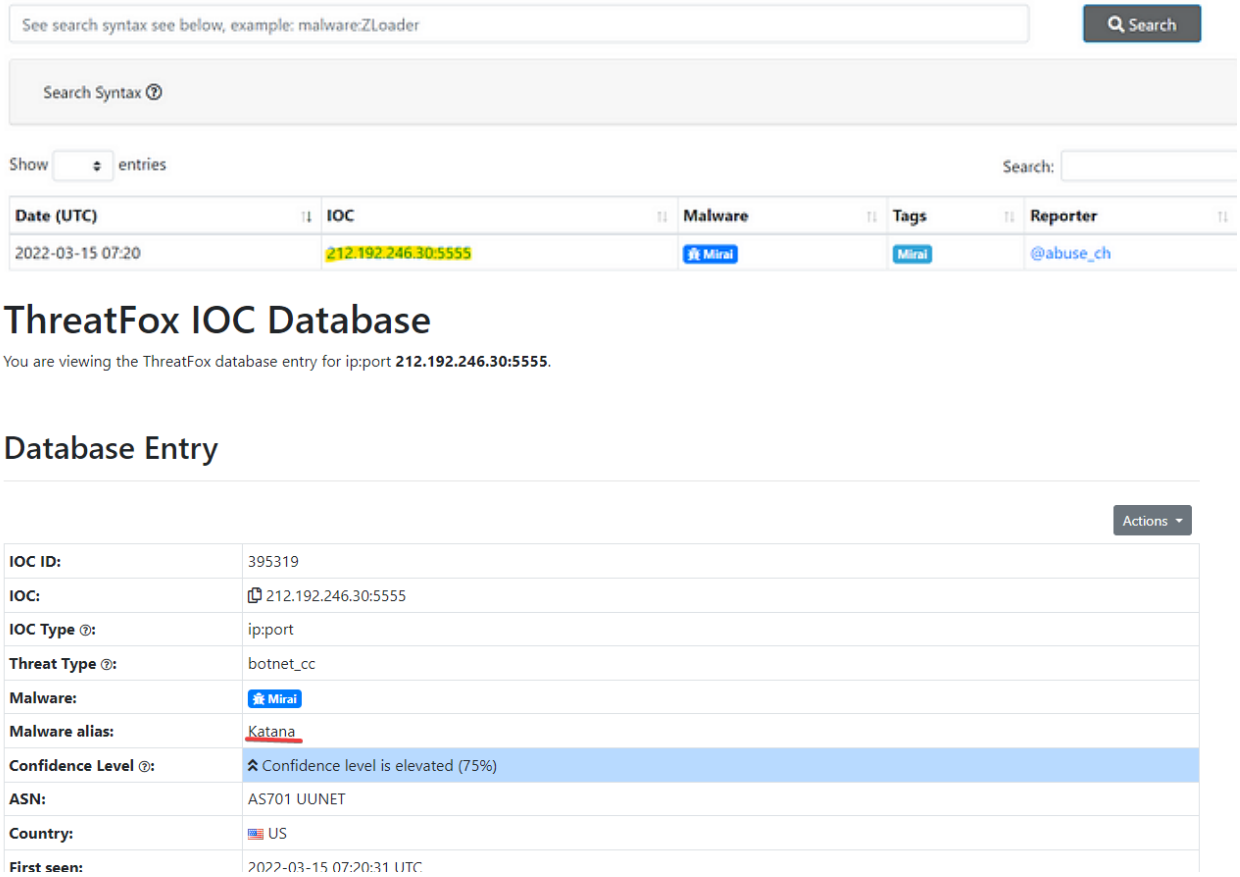
Q: What is the main IP address identified?

A: *2606:4700:10::ac43:1b0a*

Task4: Abuse.ch

Q: The IOC *212.192.246.30:5555* is linked to which malware on ThreatFox?

Type **ioc:212.192.246.30:5555** in the search box



A: Katana

Q: Which malware is associated with the JA3 Fingerprint *51c64c77e60f3980eea90869b68c58a8* on SSL Blacklist?

Goto SSl blacklist, and click on the ja3 fingerprints tab. In the search bar put the fingerprint and look it up:

JA3 Fingerprints

Here you can browse a list of malicious JA3 fingerprints identified by SSLBL. JA3 is an open source tool used to fingerprint SSL/TLS client applications. In the best case, you can use JA3 to identify malware traffic that is leveraging SSL/TLS.

Caution!

The JA3 fingerprints below have been collected by analysing more than 25,000,000 PCAPs generated by malware samples. These fingerprints have **not been tested against known good traffic yet and may cause a significant amount of FPs!**

Show 50 entries

Search: 51c64c77e60f3980eea90

Listing Date (UTC)	JA3 Fingerprint	Listing Reason	Malware Samples
2018-12-17 07:47:19	51c64c77e60f3980eea90869b68c58a8	Dridex	228'463

Showing 1 to 1 of 1 entries (filtered from 96 total entries) Previous 1 Next

A: Dridex

Q: From the statistics page on URLHaus, what malware-hosting network has the ASN number *AS14061*?

Using URLHaus —

Go to https://urlhaus.abuse.ch/statistics/ and scroll down :

Rank	ASN	Country	Average Reaction Time	Malware URLs
1	AS4837 CHINA169-Backbone	CN	2 days, 13 hours, 52 minutes	851'803
2	AS9829 BSNL-NIB	IN	9 hours, 18 minutes	368'648
3	AS4134 CHINANET-BACKBONE	CN	4 days, 1 hours, 33 minutes	176'648
4	AS17488 HATHWAY-NET-AP	IN	5 hours, 57 minutes	142'433
5	AS8661 PTK	AL	2 days, 1 hours, 27 minutes	97'515
6	AS209641 I-SERVERS-EAST	RU	23 hours, 47 minutes	92'603
7	AS17816 CHINA169-GZ	CN	1 day, 8 hours, 36 minutes	84'115
8	AS13335 CLOUDFLARENET	US	3 days, 8 hours, 1 minutes	81'579
9	AS14061 DIGITALOCEAN-ASN	US	4 days, 9 hours, 23 minutes	57'277
10	AS17622 CNCGROUP-GZ	CN	22 hours, 37 minutes	50'867
11	AS46606 UNIFIEDLAYER-AS-1	US	13 days, 21 hours, 19 minutes	47'126
12	AS19871 NETWORK-SOLUTIONS-HOSTING	US	13 days, 6 hours, 27 minutes	37'305
13	AS16276 OVH	FR	10 days, 13 hours, 53 minutes	32'245
14	AS15169 GOOGLE	US	10 days, 15 hours, 47 minutes	30'377
15	AS36352 AS-COLOCROSSING	US	11 days, 4 hours, 45 minutes	29'944

We can also get the details using FeodoTracker :

Rank	ASN	Country	Botnet C&Cs
1	AS5384 EMIRATES-INTERNET Emirates Internet	AE	304
2	AS577 BACOM	CA	248
3	AS2856 BT-UK-AS BTnet UK Regional network	GB	242
4	AS16276 OVH	FR	164
5	AS3215 France Telecom - Orange	FR	141
6	AS8151 Uninet S.A. de C.V.	MX	135
7	AS54290 HOSTWINDS	US	118
8	AS37705 TOPNET	TN	105
9	AS7922 COMCAST-7922	US	103
10	AS17557 PKTELECOM-AS-PK Pakistan Telecommunication Company Limited	PK	95
11	AS8048 CANTV Servicios, Venezuela	VE	94
12	AS42298 GCC-MPLS-PEERING GCC MPLS peering	QA	88
13	AS14061 DIGITALOCEAN-ASN	DE	85
14	AS53667 PONYNET	US	82
15	AS25019 SAUDINETSTC-AS	SA	82

A: DIGITALOCEAN-ASN

Q: Which country is the botnet IP address *178.134.47.166* associated with according to FeodoTracker?

Type in the ip address in the search bar and you will see it immediately

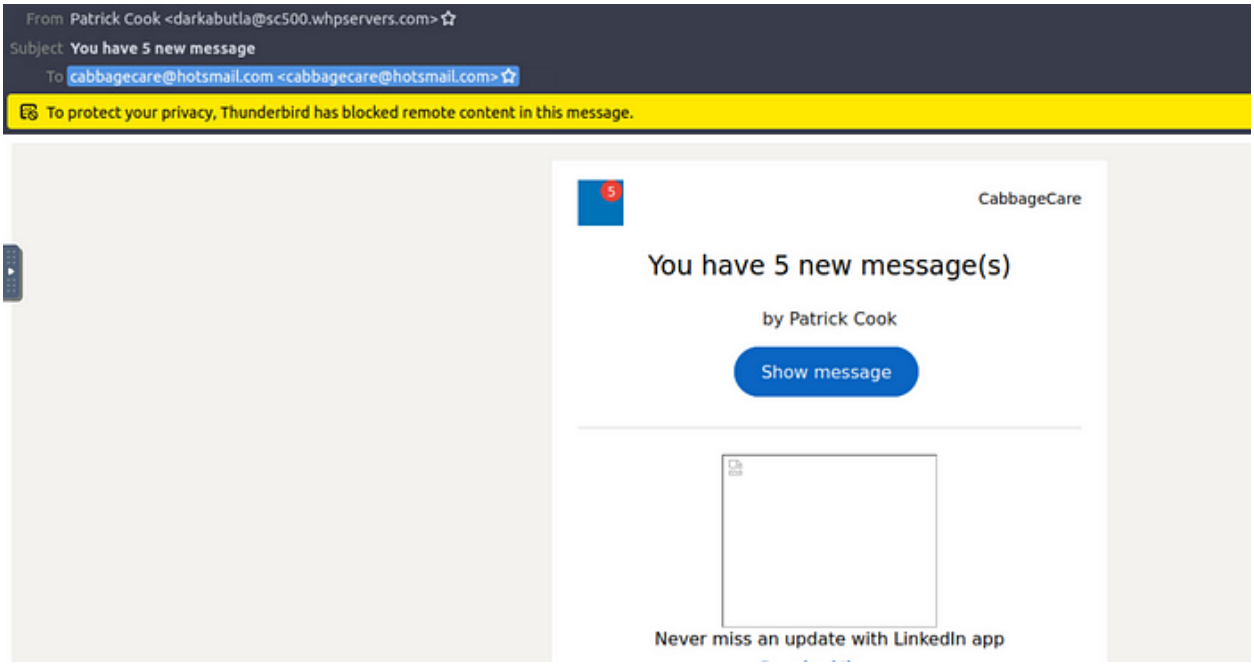
Show entries Search:

Firstseen (UTC)	Host	Malware	Status	Network (ASN)	Country
2021-04-22 22:04:30	178.134.47.166	TrickBot	Offline	AS35805 SILKNET-AS	GE

A: Georgia

Task 5: PhishTool

You are a SOC Analyst and have been tasked to analyze a suspicious email **Email1.eml**. Use the tool and skills learnt on this task to answer the questions.



email1.eml

I will show you how to get these details using headers of the mail. You can use phishtool and Talos too for the analysis part. If you just open this email with a text editor, you will see the header. And find all the information in it

```
Received: from DB9P194MB1386.EURP194.PROD.OUTLOOK.COM (2603:10a6:10:296::24) by
 AM8P194MB1513.EURP194.PROD.OUTLOOK.COM with HTTPS; Tue, 29 Mar 2022 20:39:29
 +0000
Received: from DM3PR12CA0063.namprd12.prod.outlook.com (2603:10b6:0:56::31) by
 DB9P194MB1386.EURP194.PROD.OUTLOOK.COM (2603:10a6:10:296::24) with Microsoft
 SMTP Server (version=TLS1_2, cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384)
 id 15.20.5102.17; Tue, 29 Mar 2022 20:39:28 +0000
Received: from DM6NAM10FT030.eop-nam10.prod.protection.outlook.com
 (2603:10b6:0:56:cafe::5d) by DM3PR12CA0063.outlook.office365.com
 (2603:10b6:0:56::31) with Microsoft SMTP Server (version=TLS1_2,
 cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.5123.13 via Frontend
 Transport; Tue, 29 Mar 2022 20:39:28 +0000
Received: from sc500.whpservers.com (204.93.183.11) by
 DM6NAM10FT030.mail.protection.outlook.com (10.13.152.224) with Microsoft
 SMTP Server id 15.20.5102.17 via Frontend Transport; Tue, 29 Mar 2022
 20:39:27 +0000
Authentication-Results: spf=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)
X-IncomingTopHeaderMarker: OriginalChecksum:33F38BD05032233B02515107520BE45CC841D0B3161C6C24E69A8
Require-Recipient-Valid-Since: cabbagecare@hotsmail.com; Tue, 29 Mar 2022 15:39:22 +0000
List-Unsubscribe: <https://www.linkedin.com/e/v2?e=22d94b7e8b-b231791&t=lun&midToken=bBfd3832538A
Feedback-ID: email_notification_single_search_appearance_05:linkedin
To: "cabbagecare@hotsmail.com" <cabbagecare@hotsmail.com>
Date: Tue, 29 Mar 2022 15:39:22 +0000 (UTC)
Hapless-Filipinos-Mortimer: 2E115DBE361
Subject: You have 5 new message
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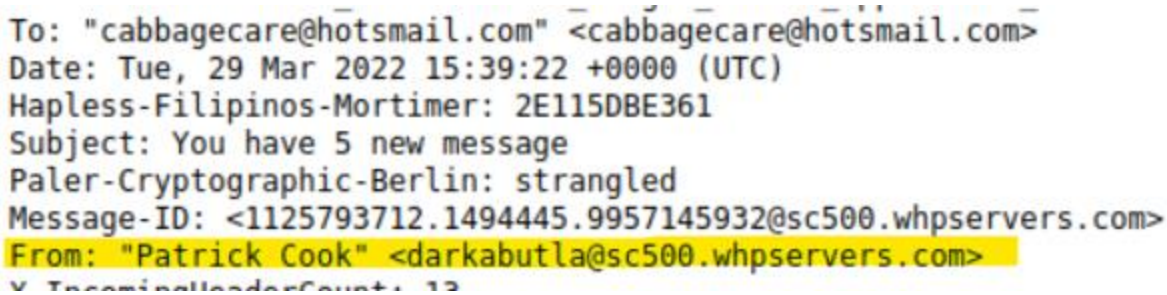


Q: What organization is the attacker trying to pose as in the email?

A: *LinkedIn*

Q: What is the senders email address?

A: *darkabutla@sc500.whpservers.com*

Q: What is the recipient's email address?

A: *cabbagecare@hotsmail.com*

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

A: *204[.]93[.]183[.]11*

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

A: 4

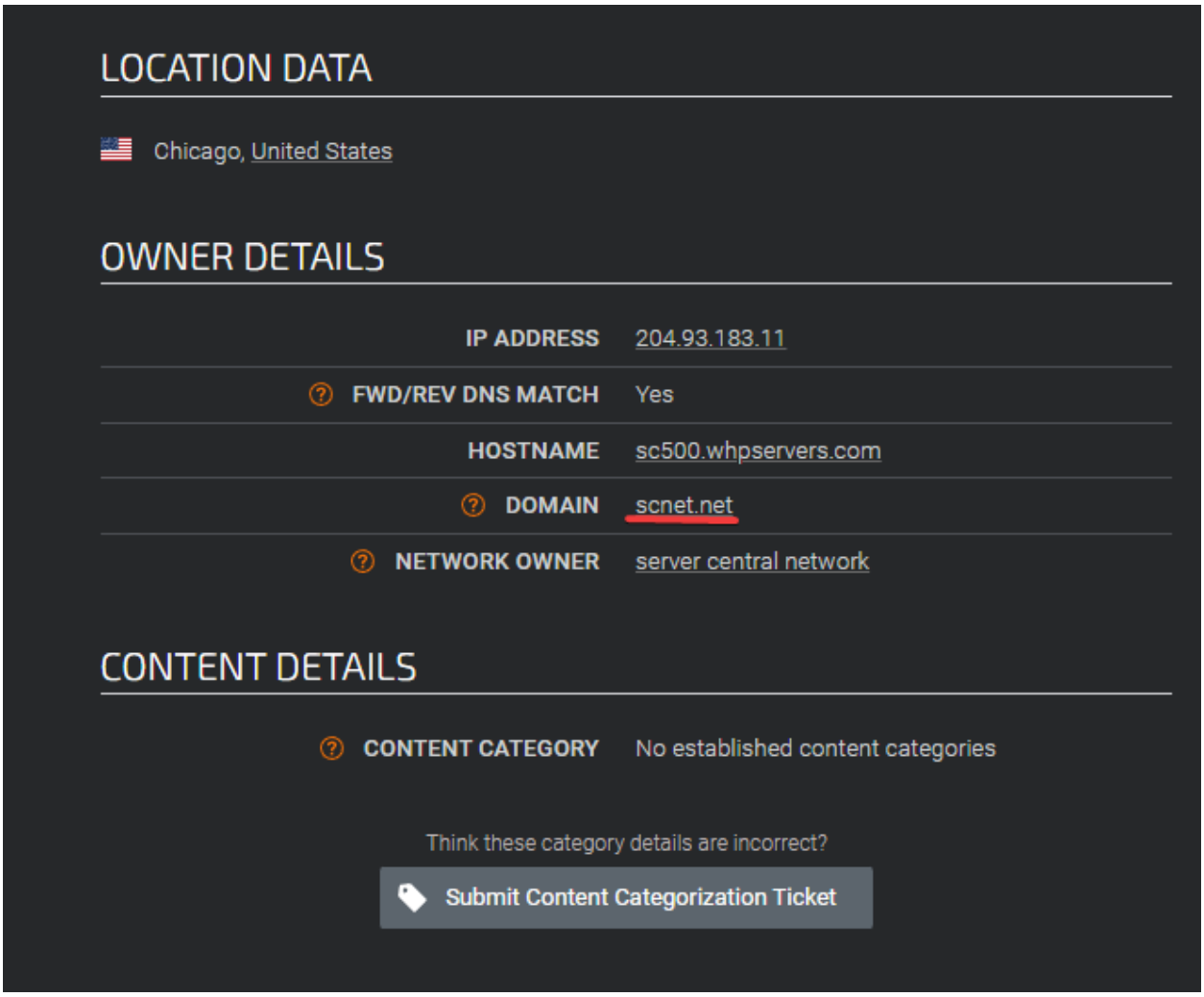
Task6: Cisco Talos Intelligence

Use the .eml file you've downloaded in the previous task, PhishTool, to answer the following questions.

Answer the questions below

Here, I used Whois.com and AbuseIPDB for getting the details of the IP. Like this, you can use multiple open source tools for the analysis..

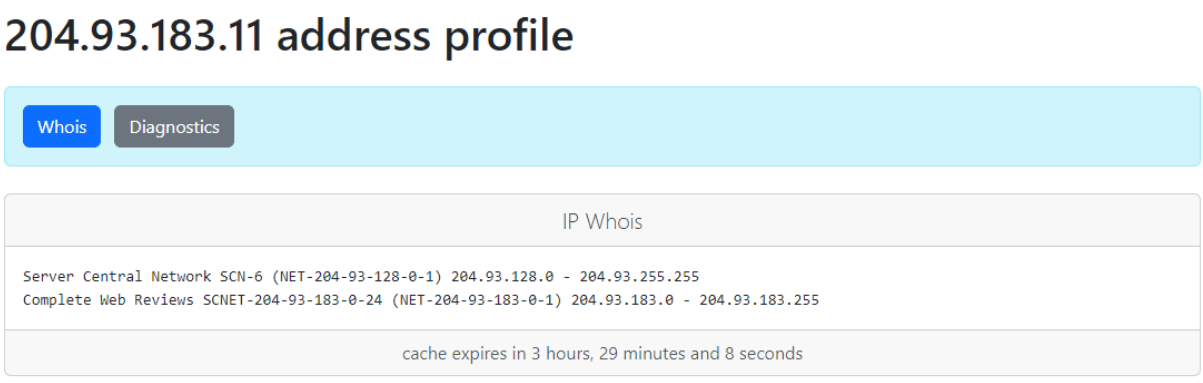
Q: What is the listed domain of the IP address from the previous task?



A: *scnet.net*

Q: What is the customer name of the IP address?

Using who.is we can lookup the ip and find this:



A: *Complete Web Reviews*

Task 7 : Scenario

You are a SOC Analyst. Several suspicious emails have been forwarded to you from other coworkers. You must obtain details from each email to triage the incidents reported.

Task: Use the tools discussed throughout this room (or use your resources) to help you analyze **Email2.eml** and use the information to answer the questions.

Download the task files first —

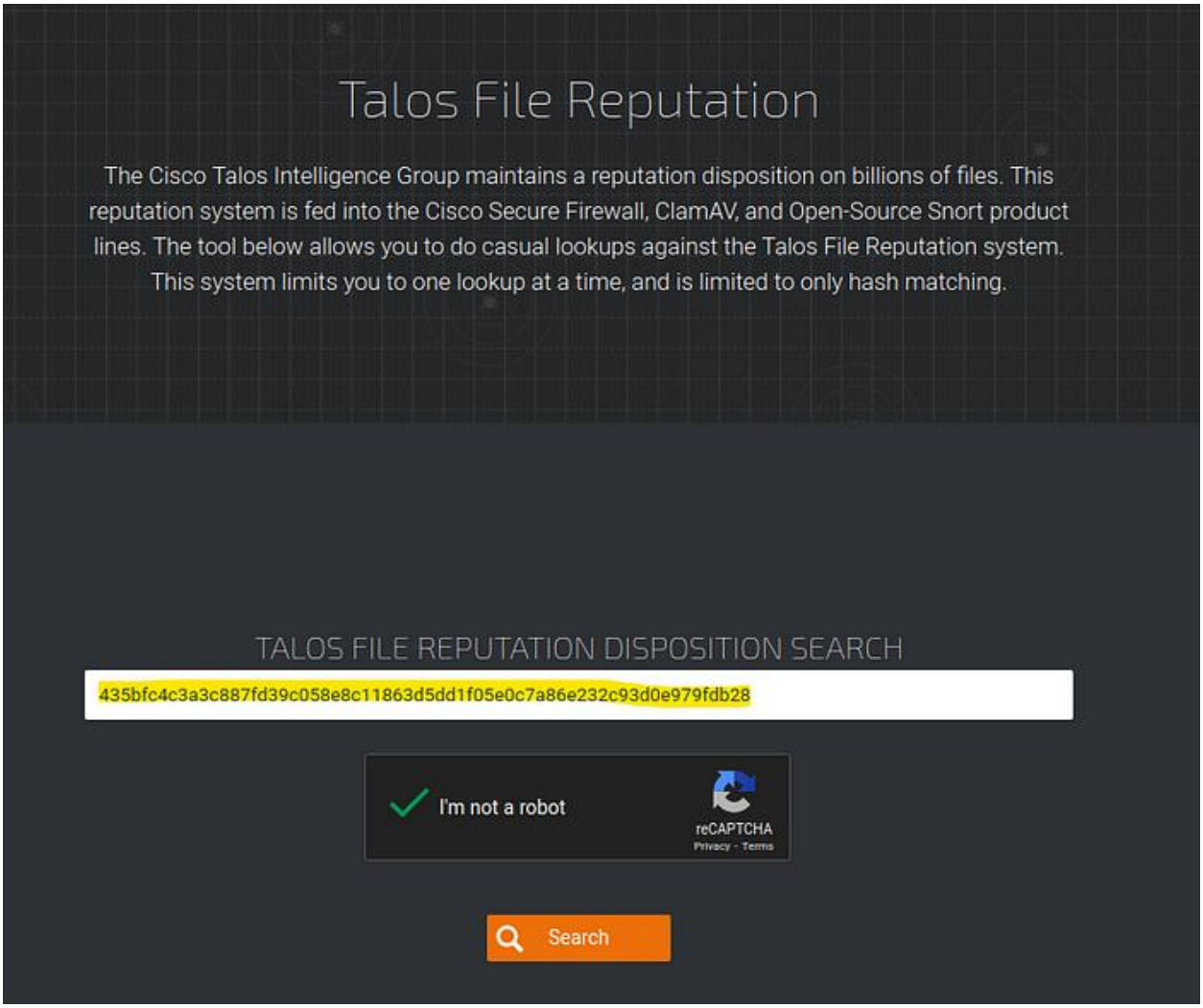
Q: According to Email2.eml, what is the recipient's email address?

If you open the email in a text editor, you will find the email address in the header:

A: chris.lyons@supercarcenterdetroit.com

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

Go to attachments and copy the SHA-256 hash. Open Cisco Talos and check the reputation of the file. You will get the alias name. (hint given : starts with H)



A: HIDDENEXT/Worm.Gen

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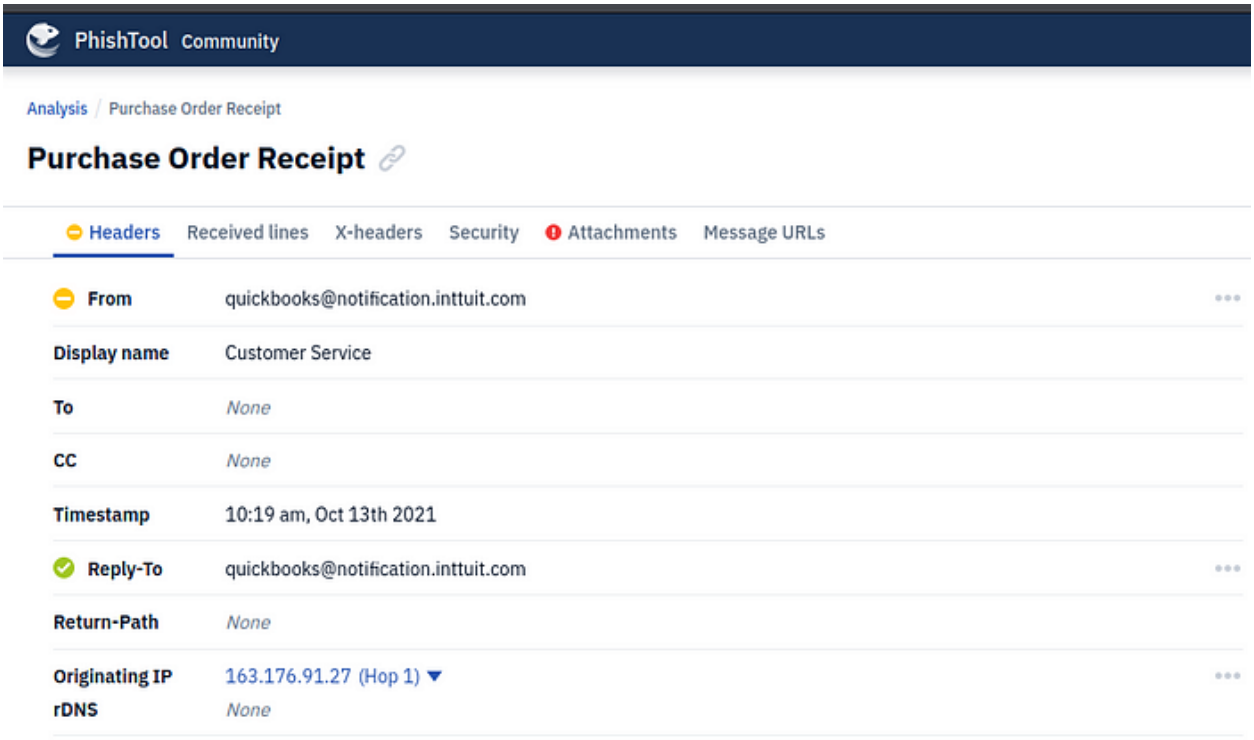
Task 8 : Scenario

You are a SOC Analyst. Several suspicious emails have been forwarded to you from other coworkers. You must obtain details from each email to triage the incidents reported.

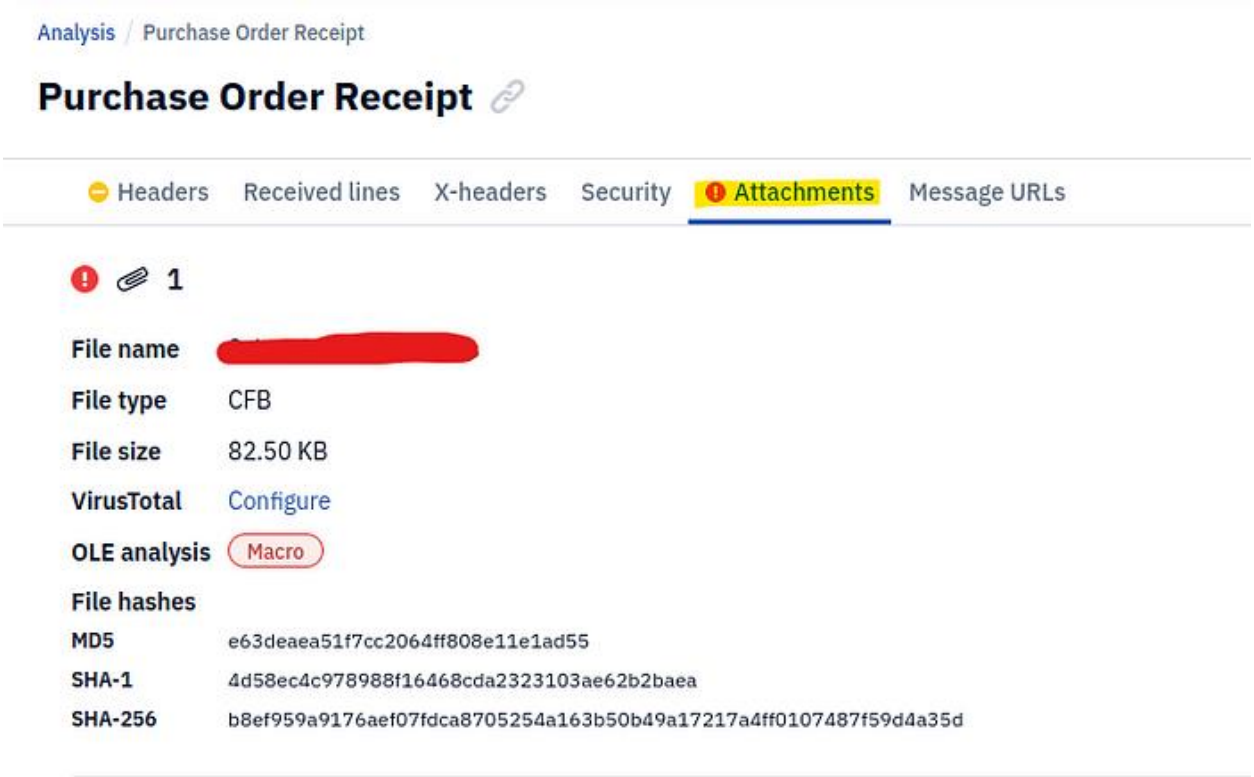
Task: Use the tools discussed throughout this room (or use your resources) to help you analyze **Email3.eml** and use the information to answer the questions.

Download the task files first..

Q: What is the name of the attachment on Email3.eml?



Go to Attachments option



A: Sales_Receipt 5606.xls

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

A: Dridex

Copy the SHA-256 hash and open Cisco Talos and check the reputation of the file. You will find the malware family here.