Introduction:
https://tryhackme.com/p/Damiano254

Threat Intelligence is essential in cybersecurity, providing insights into emerging and active cyber threats. This report explores the key aspects of threat intelligence, focusing on its classifications and the use of various open-source tools. These tools are crucial for identifying and mitigating cyber threats, enhancing the security posture of organizations.

Task 1: Room Outline

Objective:

- Learn about Threat Intelligence and its applications.
- Explore various open-source tools for threat intelligence.

Tools and Concepts:

1. **Understanding Threat Intelligence & Classifications**
    - Basics of threat intelligence.
    - Classifications: Strategic, Technical, Tactical, Operational.
2. **UrlScan.io**
    - Tool for scanning malicious URLs.
    - Analyzes website interactions and metadata.
3. **Abuse.ch**
    - Tracks malware and botnet indicators.
4. **PhishTool**
    - Investigates phishing emails.
5. **Cisco's Talos Intelligence**
    - Platform for intelligence gathering.

Task 2: Threat Intelligence

Definition:

- Analysis of data to identify patterns and mitigate risks from threats**.**

Key Questions:

1. Who's attacking?
2. Motivation?
3. Capabilities?
4. Artefacts/Indicators of compromise?

Classifications:

1. Strategic Intel: High-level, trend-based intel.
2. Technical Intel: Evidence/artefacts of attacks.
3. Tactical Intel: Adversaries' tactics and techniques.
4. Operational Intel: Specific motives and intents.

Task 3: UrlScan.io

Functionality:

- Automates browsing and crawling to record website activities.
- Analyzes domains, IP addresses, page snapshots, and technologies used.

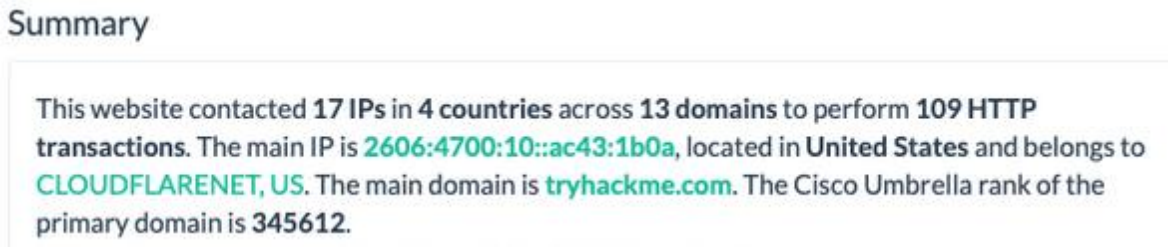
Key Aspects of Analysis:

1. Summary: IP, domain details, site screenshot.
2. HTTP: HTTP connection details.

3. Redirects: HTTP/client-side redirects.
4. Links: Outgoing links.
5. Behaviour: Site variables and cookies.
6. Indicators: IPs, domains, hashes.

Example: TryHackMe Domain Analysis

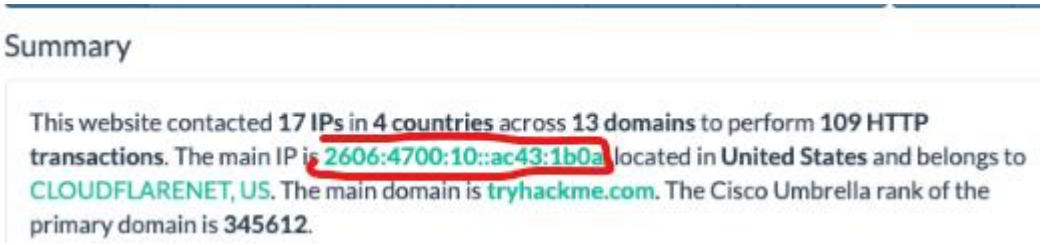
- Cisco Umbrella Rank: 345612



- Domains Identified: 13

- Main Domain Registrar: NAMECHEAP INC

- Main IP Address: 2606:4700:10::ac43:1b0a



Task 4: Abuse.ch

- Purpose: Focuses on tracking and reporting malware and botnet activities.

Questions:

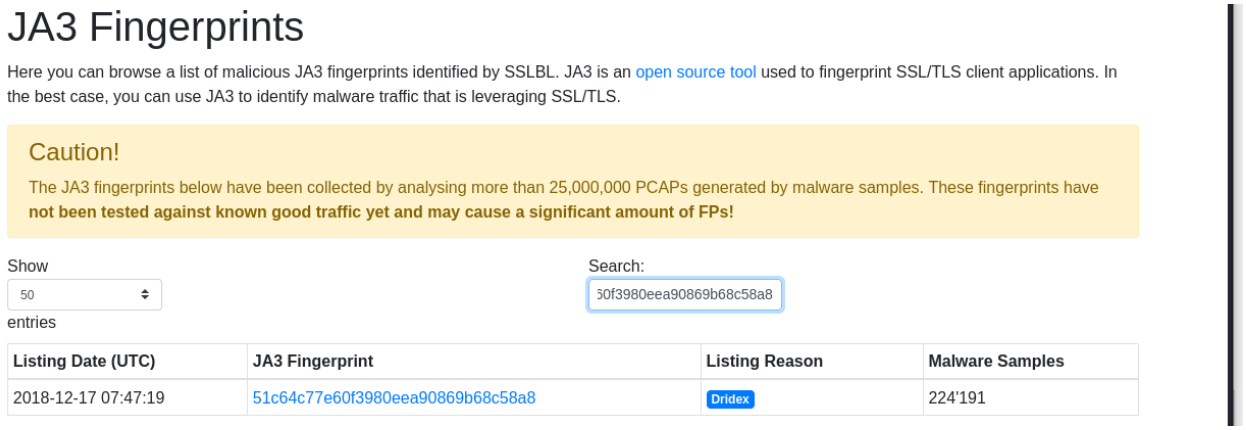
Q: The IOC 212.192.246.30:5555 is identified under which malware alias name on Threat Fox?

A: Katana

IOC ID:	395319
IOC:	212.192.246.30:5555
IOC Type:	ip:port
Threat Type:	botnet_cc
Malware:	Mirai
Malware alias:	Katana
Confidence Level:	Confidence level is elevated (75%)
First seen:	2022-03-15 07:20:31 UTC
Last seen:	never
UUID:	65d0f100-a430-11ec-a022-42010aa4000a
Reporter	abuse_ch

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

A: Dridex



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!**

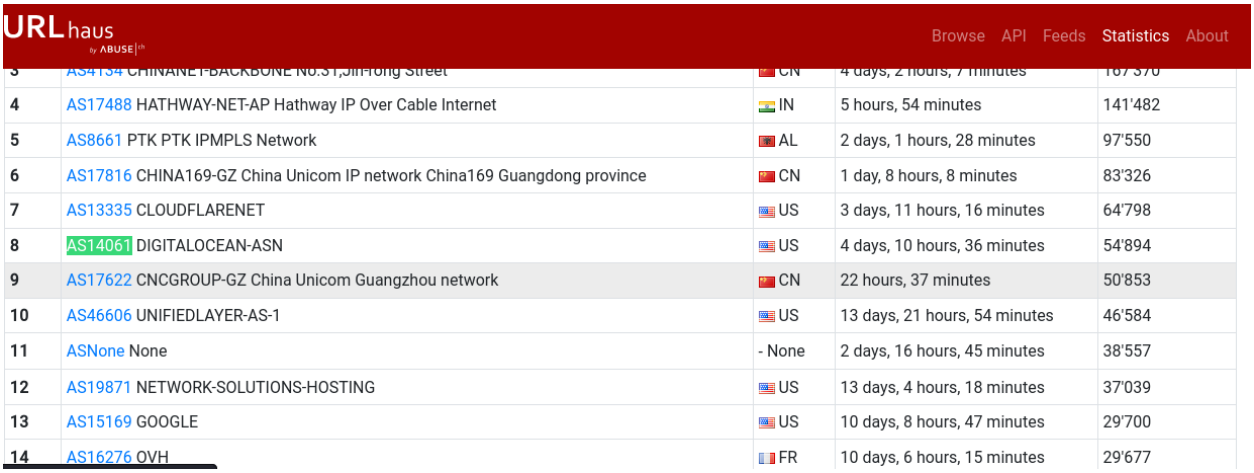
Show 50 entries

Search: 50f3980eea90869b68c58a8

Listing Date (UTC)	JA3 Fingerprint	Listing Reason	Malware Samples
2018-12-17 07:47:19	51c64c77e60f3980eea90869b68c58a8	Dridex	224'191

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

A: **DIGITALOCEAN-ASN**

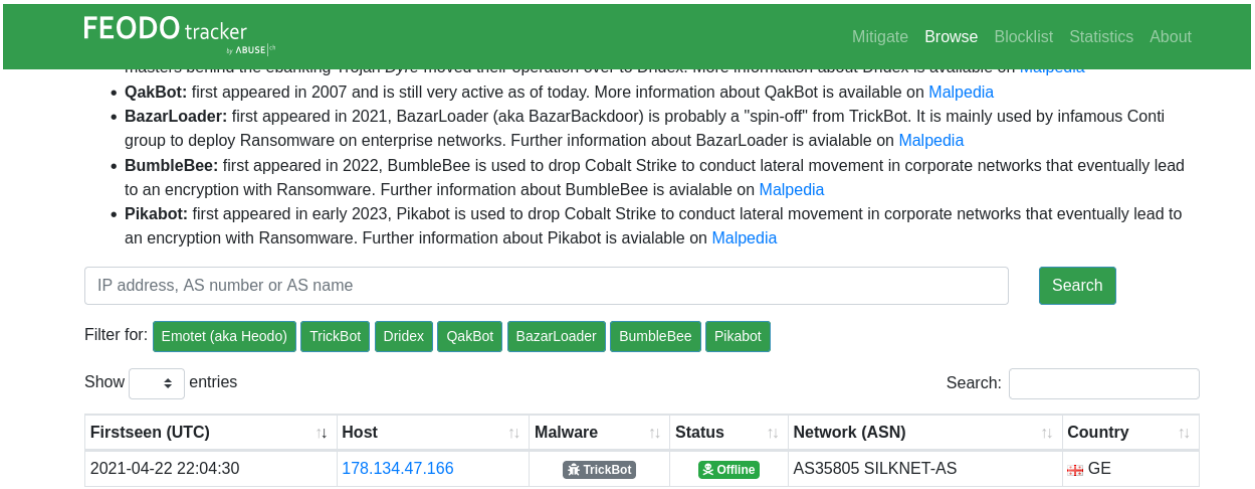


URLhaus by ABUSE.ch — Browse API Feeds Statistics About

3	AS4134 CHINANET-BACKBONE No.31,Jin-rong Street	CN	4 days, 2 hours, 7 minutes	167'370
4	AS17488 HATHWAY-NET-AP Hathway IP Over Cable Internet	IN	5 hours, 54 minutes	141'482
5	AS8661 PTK PTK IPMPLS Network	AL	2 days, 1 hours, 28 minutes	97'550
6	AS17816 CHINA169-GZ China Unicom IP network China169 Guangdong province	CN	1 day, 8 hours, 8 minutes	83'326
7	AS13335 CLOUDFLARENET	US	3 days, 11 hours, 16 minutes	64'798
8	AS14061 DIGITALOCEAN-ASN	US	4 days, 10 hours, 36 minutes	54'894
9	AS17622 CNCGROUP-GZ China Unicom Guangzhou network	CN	22 hours, 37 minutes	50'853
10	AS46606 UNIFIEDLAYER-AS-1	US	13 days, 21 hours, 54 minutes	46'584
11	ASNone None	- None	2 days, 16 hours, 45 minutes	38'557
12	AS19871 NETWORK-SOLUTIONS-HOSTING	US	13 days, 4 hours, 18 minutes	37'039
13	AS15169 GOOGLE	US	10 days, 8 hours, 47 minutes	29'700
14	AS16276 OVH	FR	10 days, 6 hours, 15 minutes	29'677

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

A: Georgia



Task 5: PhishTool

PhishTool Overview:

- Analyzes phishing emails to identify threats.
- Versions: Community and Enterprise.

Core Features:

1. Email Analysis: Metadata retrieval and analysis.
2. Heuristic Intelligence: OSINT for attack insights.
3. Classification and Reporting: Email classifications and forensic reports.

Enterprise Features:

- Manage user-reported phishing.
- Integrate with Microsoft 365 and Google Workspace.

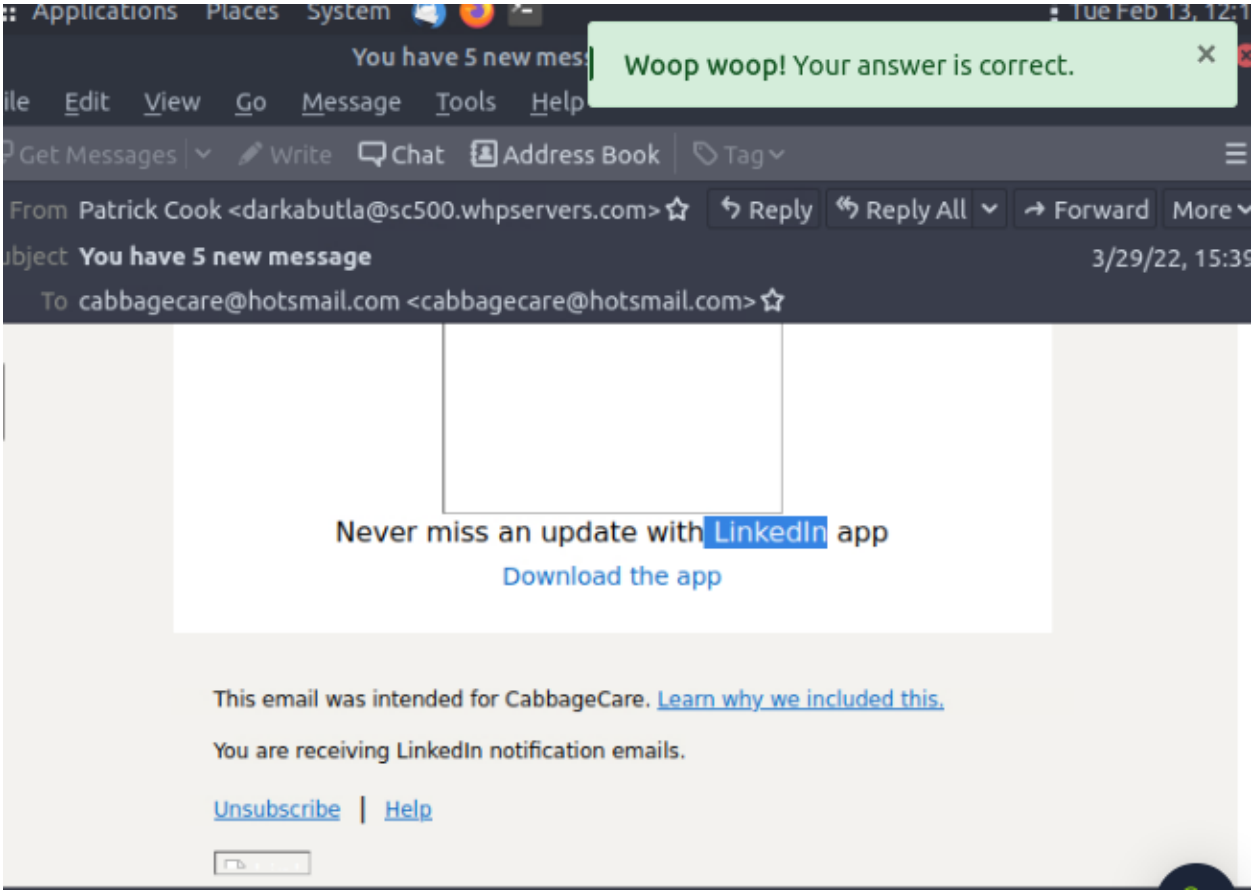
Analysis Process:

- Email headers, security policies, attachments, URLs analysis.
- Resolution: Classifying emails, flagging artefacts.

Example: Email Analysis

Q: What social media platform is the attacker trying to pose as in the email?

A: LinkedIn.



Q: What is the senders email address?

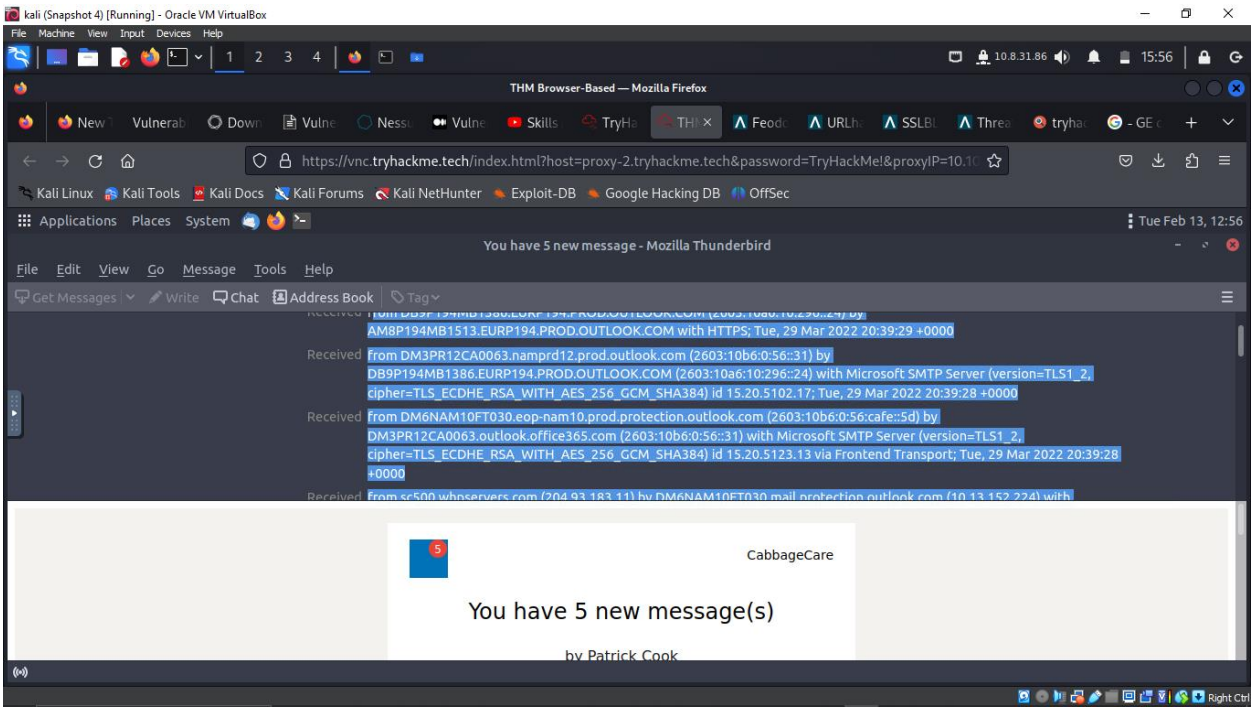
A: darkabutla@sc500.whpservers.com

Q: What is the recipient's email address**?**

A: cabbagecare@hotsmail.com

Q: What is the Originating IP address? Defang the IP address.: 204[.]93[.]183[.]11

A: Email Hops: 4



Task 6: Cisco Talos Intelligence

Components:

1. Threat Intelligence & Interdiction
2. Detection Research
3. Engineering & Development
4. Vulnerability Research & Discovery
5. Communities
6. Global Outreach

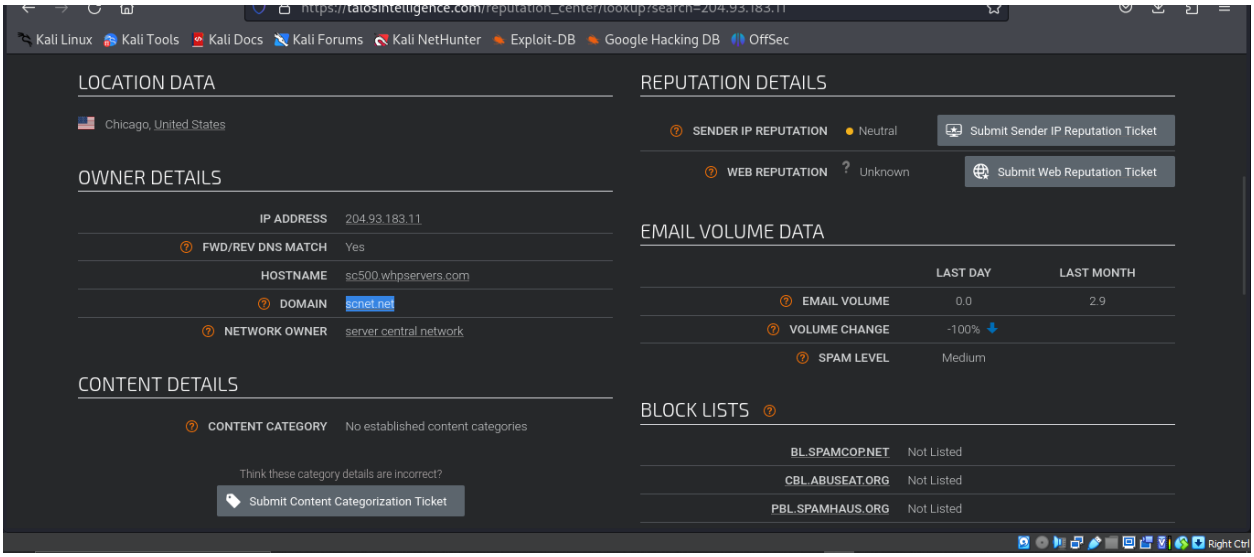
Features:

- Reputation lookup dashboard.
- Vulnerability Information.
- Reputation Center.

Task Application:

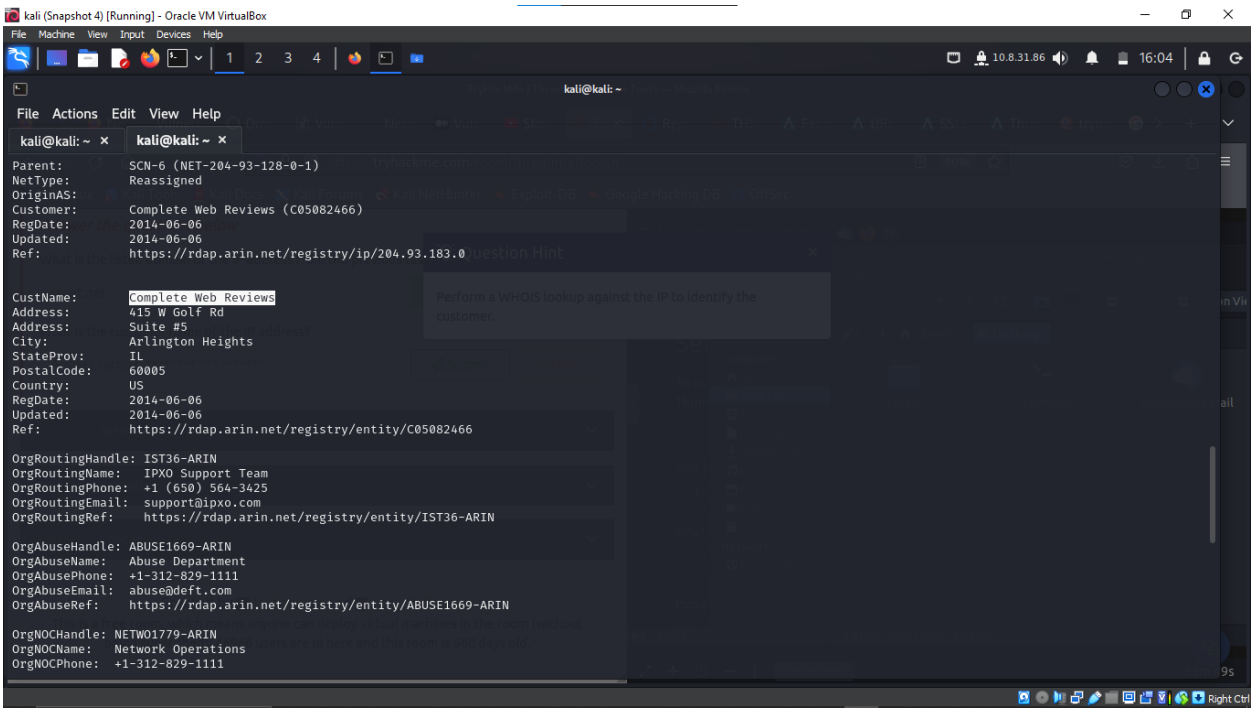
Q: What is the listed domain of the IP address from the previous task? (204[.]93[.]183[.]11):

A: scnet.net



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

- **A: Complete Web Reviews**



Task 8: Scenario 1

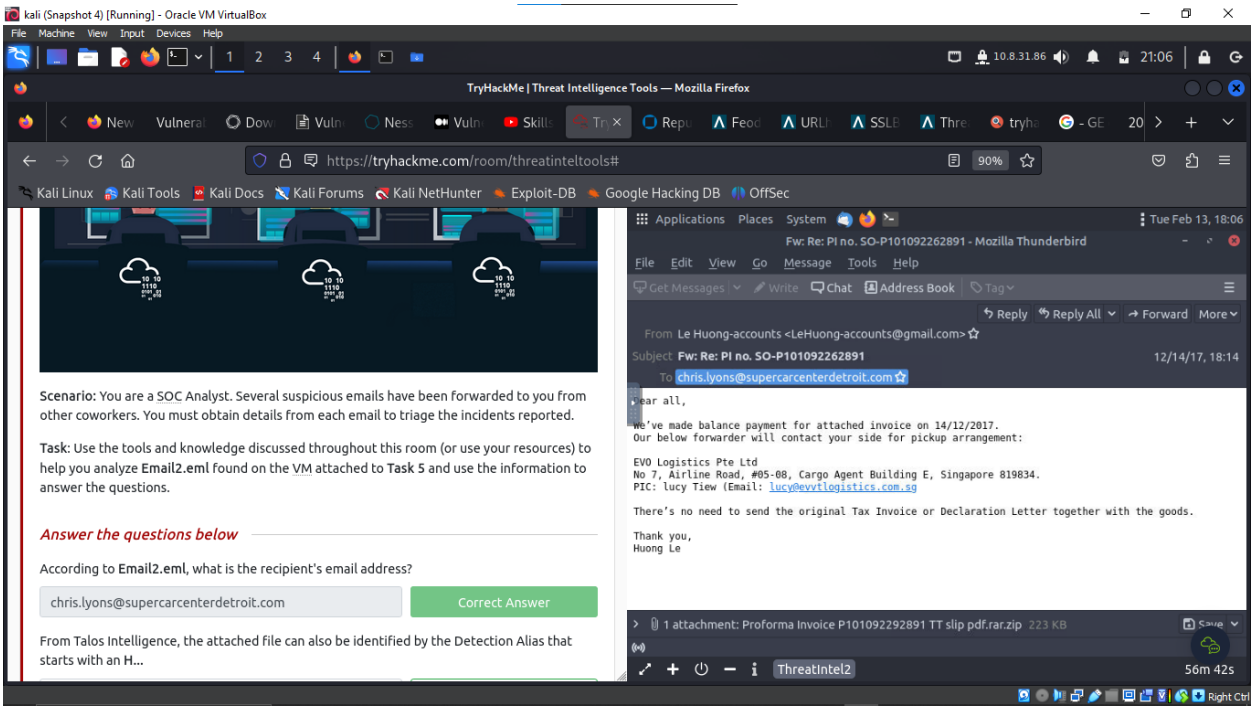
Scenario Analysis:

- Analyze suspicious emails using learned tools and techniques.

Examples:

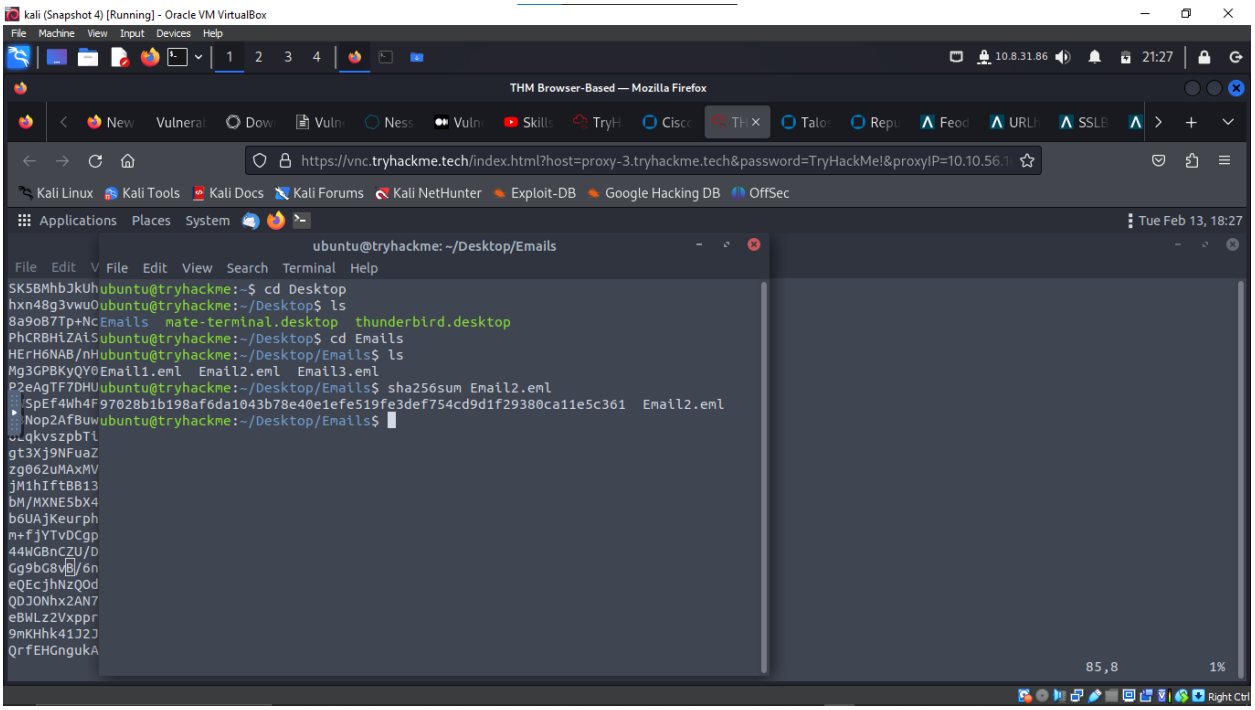
Q: According to Email2.eml, what is the recipient's email address?

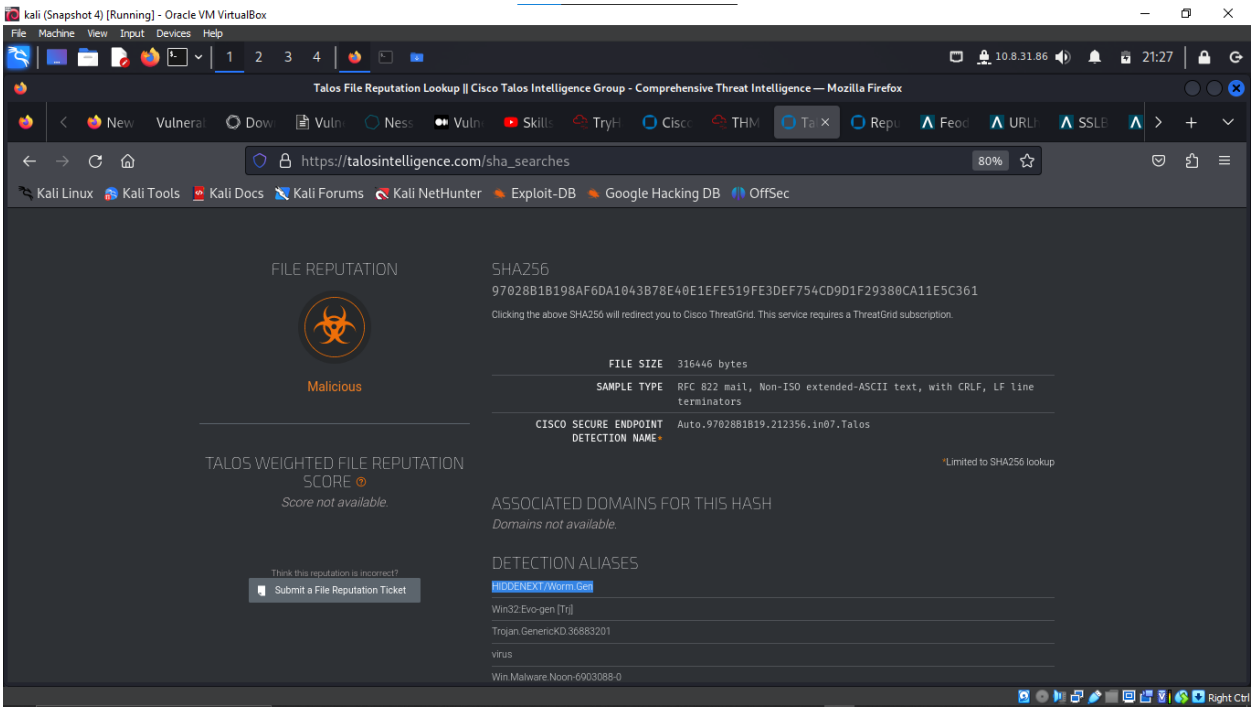
A: **chris.lyons@supercarcenterdetroit.com**



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

A: **HIDDENEXT/Worm.Gen**





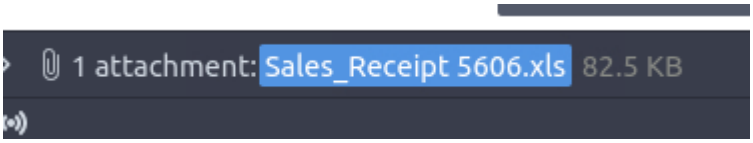
Task 8: Scenario 2

Scenario Analysis:

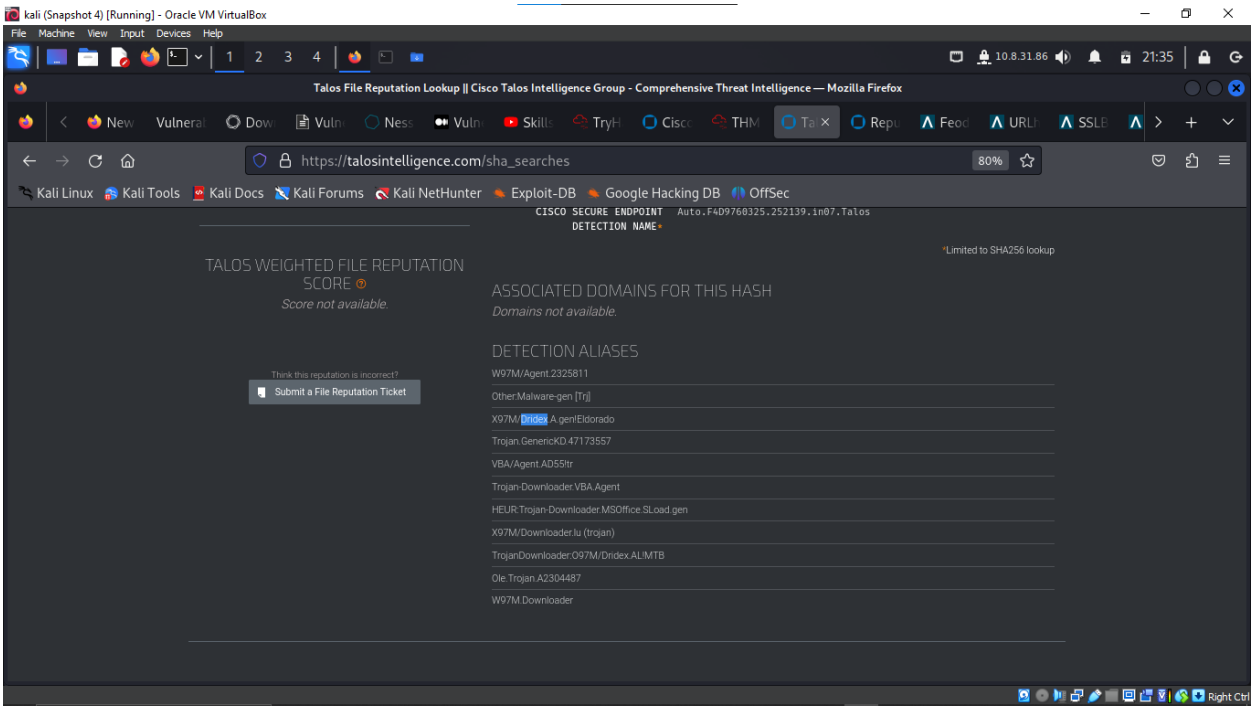
- Analyze suspicious emails using learned tools and techniques.

Example: Email3.eml Analysis

- Attachment Name: **Sales_Receipt 5606.xls**



- Associated Malware: **Dridex**



Task 9: Conclusion

Key Takeaway:

- The discussed tools represent a fraction of available open-source threat intelligence resources.

- Further exploration recommended in Yara, MISP, Red Team Threat Intel.

Conclusion

In summary, the effective use of threat intelligence tools like UrlScan.io, Abuse.ch, PhishTool, and Cisco Talos Intelligence is vital in modern cybersecurity. They offer critical insights for understanding and combating cyber threats, thus playing a significant role in protecting digital infrastructures.