Cyber Threat Intelligence

Tracking Emails Like a Cyber Spy! Learn Email Footprinting & DNS Interrogation

Task 01: Data Collection through Email Foot-Printing **Email Footprinting**:

- **Email Footprinting** is the process of gathering information about a target by analyzing emails sent by or received from them.
- This technique is commonly used to collect valuable details about a target's email server, IP addresses, mail headers, metadata, and security configurations.

Method of Email Footprinting by Analyzing Email Headers

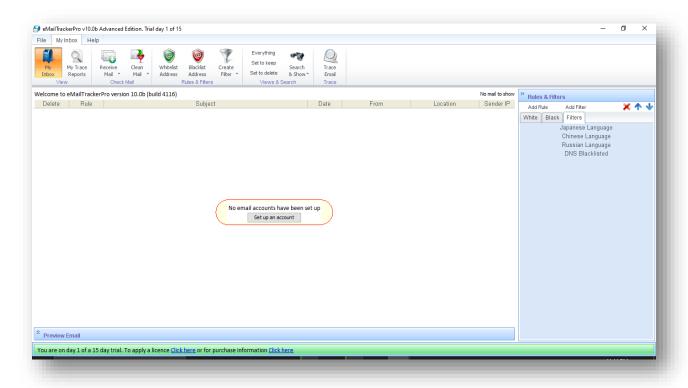
Every email contains a header that provides details about the sender, recipient, and route. In this, we will collect data by using **EmailTrackerPro** tool.

EmailTrackerPro:

EmailTrackerPro is an email tracking tool that helps users analyze email headers, track sent emails, and identify recipient interactions. It is commonly used for:

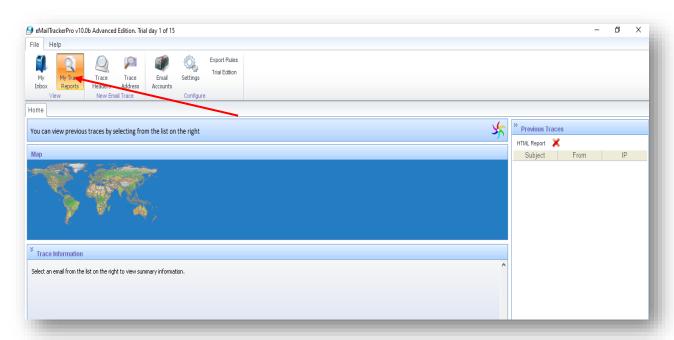
- Tracking email delivery status (sent, opened, or clicked).
- Extracting sender IP addresses from email headers.
- Analyzing email paths and servers involved in transmission.
- Detecting email spoofing attempts and phishing threats.

Main Window of EmailTrackerPro:



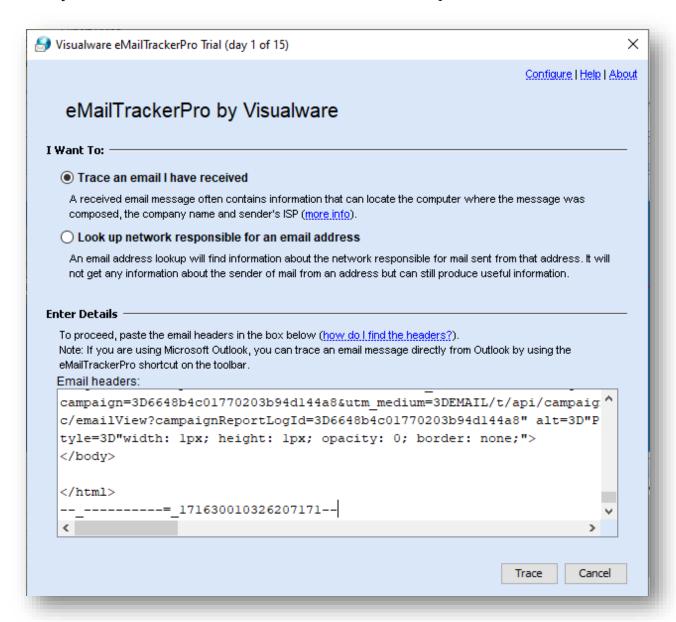
Let's trace Email by Email Header. For this, we click on

MyTraceReports Icon:



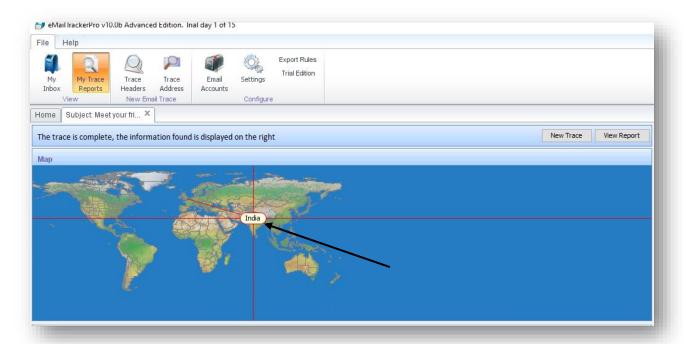
Target:

"WsCube Cyber Security" an Indian platform that offer courses related to cyber security. I have used their email header information and paste it in this tool.



By tracing email through emailheader, it gives us location and complete route of email:

Location:



Route of Email:

#	Hop IP	Hop Name	Location
	192.168.183.207		
	192.168.100.1		
	202.163.72.253		(Pakistan)
1	192.168.63.250		
5	192.168.100.133		
6	192.168.4.29		
8	213.202.7.208		(United Arab Emirates)
11	213.202.6.194		(United Arab Emirates)
12	134.0.220.105		(Australia)
13	195.66.224.76	ae15.mpr1.lhr15.uk.above.net	London, UK
16	64.125.30.59	ae6.mpr3.phl2.us.zip.zayo.com	[America]
17	64.125.21.74		[America]
18	64.124.191.83	64.124.191.83.IPYX-136392-008-ZYO.zip.zayo.com	
19	206.183.107.11		[America]
End	175.158.66.157		(India)

Email Summary:

Email Summary

From: notifications@mg1.graphy.com

To:

Date: Tue, 21 May 2024 19:31:43 +0530

Subject: Meet your friends on WsCube Tech's online platform

Location: (India)

Misdirected: No

Abuse Address: abuse@mumbai.ravience.in

Abuse Reporting: To automatically generate an email abuse report click here

From IP: 175.158.66.157

System Information:

• There is no SMTP server running on this system (the port is closed).

- There is no HTTP server running on this system (the port is closed).
- There is no HTTPS server running on this system (the port is closed).
- There is no FTP server running on this system (the port is closed).

Task 02: Data Collection through DNS Interrogation

- DNS (Domain Name System) Interrogation is a technique used to gather publicly available information about a target domain by querying DNS server.
- It is used to find the IP address of given domain names.
- The information it gives include DNS domain names, computer name, IP addresses and information about particular network.

Methods of DNS Interrogation

1. WHOIS Lookup

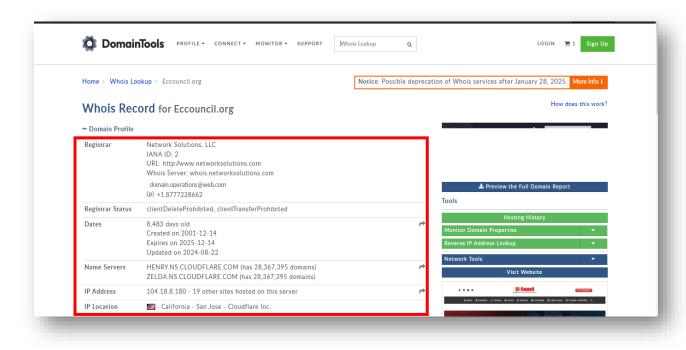
• It provides **domain registration details**, including: domain owner name, registrar information, contact details (unless protected by privacy services), domain creation & expiry dates

Main Window of Whois LookUp:



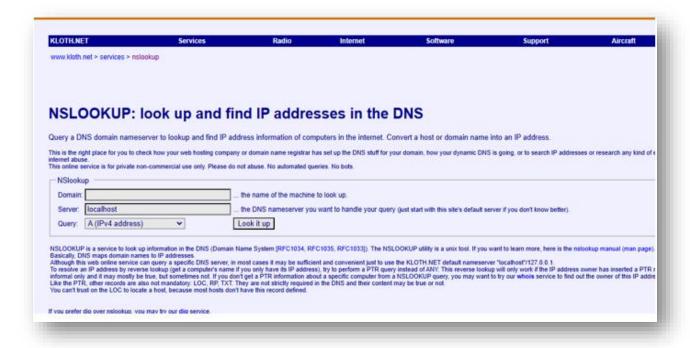
Now, we enter the domain name of **EC-council** organization to collect its data.

The publicly available data:



2- NSLookUp Tool:

Now we perform Data collection through DNS interrogation using **NSlookup** website.



• Checking DNS information of **EC-council** website:

