

OSINT - Open-Source Intelligence

OSINT means collecting and gathering information from publicly available sources, like google, Social medias like, Facebook, WhatsApp, telegram, Instagram etc....

Who Uses OSINT?

- **National Security & Law Enforcement:** For global awareness, threat assessment, and investigations.
- **Cybersecurity:** To identify vulnerabilities, track malicious actors, and understand emerging threats.
- **Businesses:** For due diligence, market research, competitive analysis, and risk management.
- **Journalists & Researchers:** To uncover stories, verify facts, and document events.

Examples of OSINT in Action:

- **Cybersecurity:** Finding an organization's unpatched software or leaked credentials by searching public forums and code repositories.
- **Threat Intelligence:** Monitoring ransomware leak sites and hacker forums to understand new tactics.
- **Background Checks:** Gathering public social media and professional information about individuals.

Tools used in OSINT

There are multiple tools available for OSINT, which helps investigators to gather information across the digital and physical society.

1. Maltego

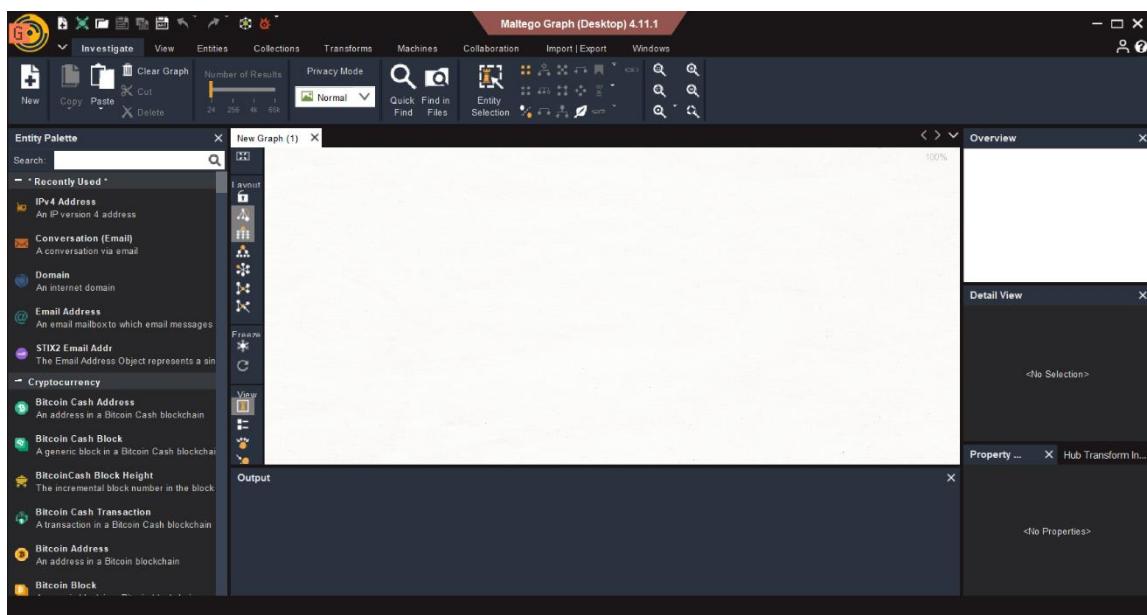
This is a tool for data mining and relationship mapping. It's a Graphical link analysis tool. This transforms data into interactive graphs for investigations.

In this hands-on tutorial, I'll demonstrate how to use **Maltego** – a powerful OSINT (Open Source Intelligence) tool – to map a target's digital footprint using [TryHackMe.com](#) as our case study.

Step by step Guide to Map TryHackMe's Infrastructure

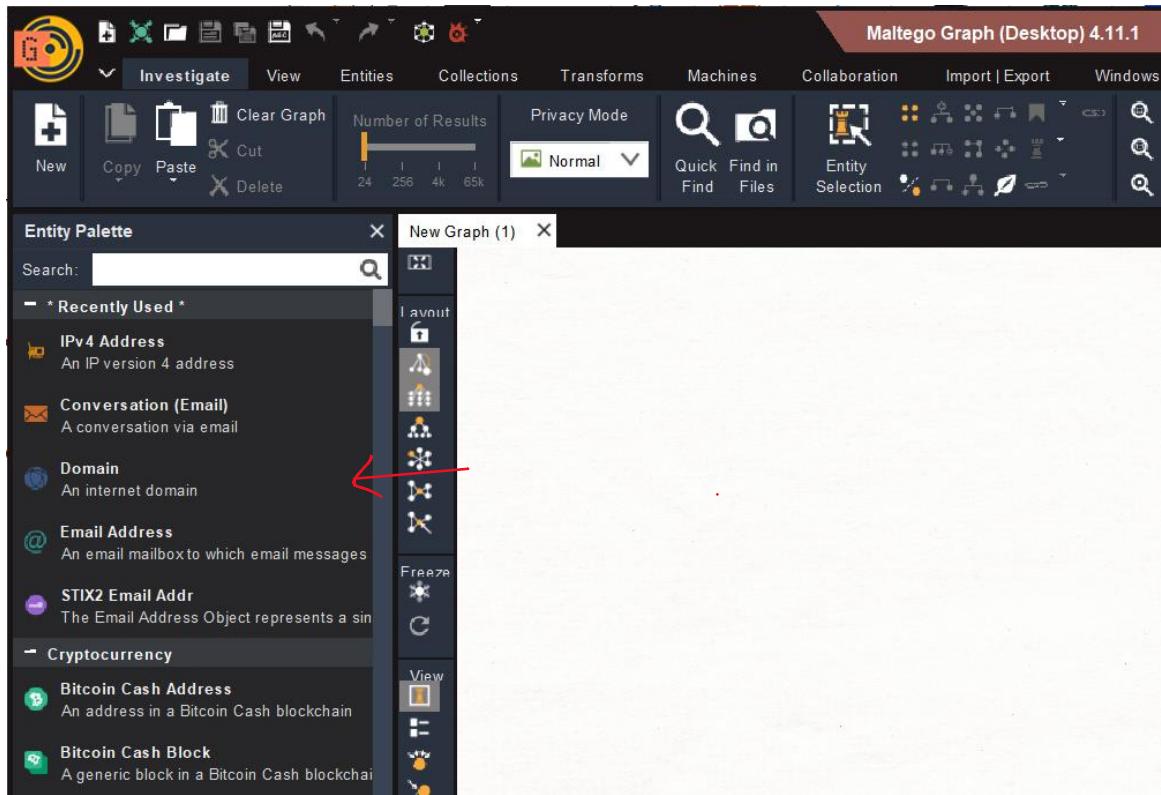
Step 1: Installation & Setup

- Download the Community Edition of Maltego by visiting it's official website [Maltego.com](#)
- Create an Account during the installation for free
- Open Maltego and create a new graph for our investigation

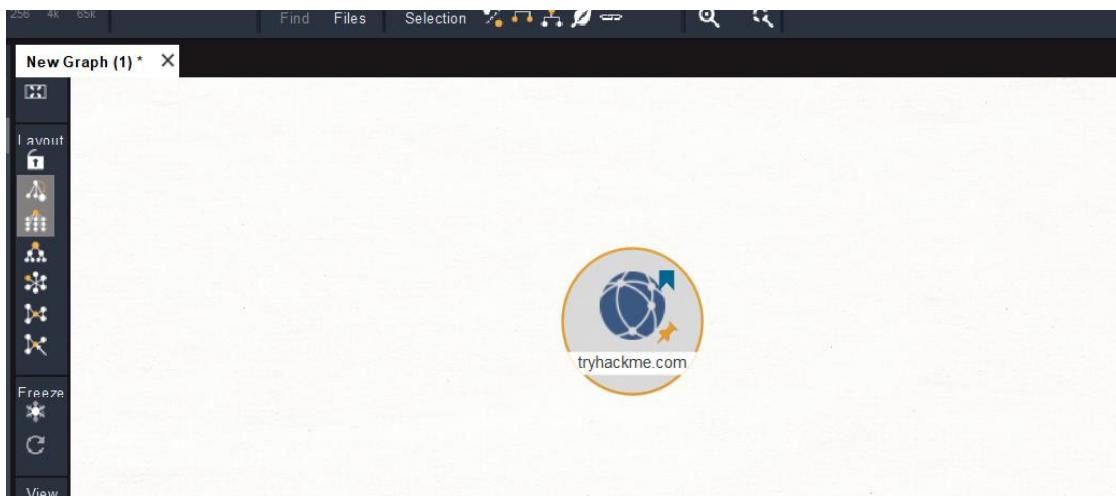


Step 2: Initial Domain Analysis

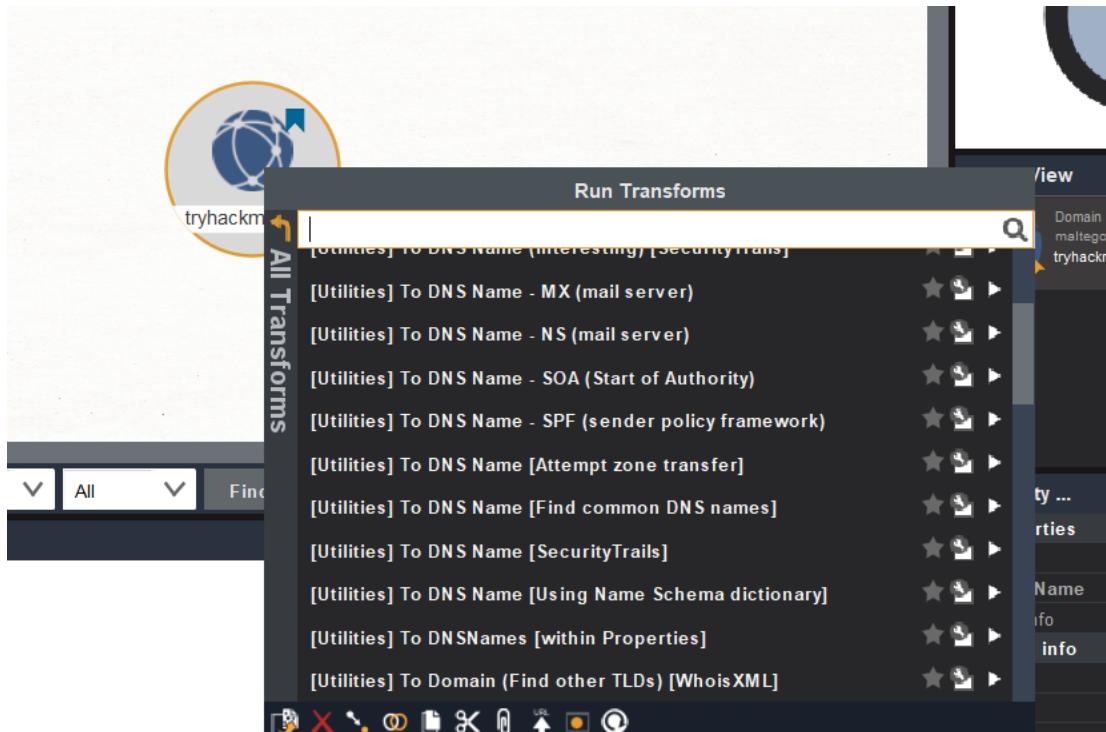
- Drag a “Domain” entity onto the Canvas



- Double-Click and enter tryhackme.com



- Right Click → Run Transform → Select “To DNS Name”



Step 3: Explore DNS and Infrastructure

After running the “To DNS Name” transform, Maltego will resolve the domain to associated DNS records. In our investigation of tryhackme.com, we discovered multiple subdomains and related infrastructure. Some of the notable DNS names found include:

- **blog.tryhackme.com**
- **help.tryhackme.com**
- **remote.tryhackme.com**
- **tryhackme.com.cdn.cloudflare.net**
- **worker-test.tryhackme.com**

This reveals TryHackMe’s use of Cloudflare for CDN and DDoS protection, as well as separate subdomains for blogs, help centres, and remote access services.

Step 4: Identify IP Addresses and Geolocation

By transforming DNS names to IP addresses, we uncovered the following IPv4 addresses linked to TryHackMe's

- 104.20.29.66
- 172.66.164.239

These IPs correspond to Cloudflare proxy servers, confirming the use of reverse proxy services to protect origin servers.

Step 5: Extract Email Addresses and Contact Information

Maltego can also uncover email addresses associated with the domain. For TryHackMe, we identified several organizational emails:

- sales@tryhackme.com
- support@tryhackme.com
- hello@tryhackme.com
- qa@tryhackme.com
- stuxnet@tryhackme.com

These emails appear in help articles, legal pages, and community discussions, indicating points of contact for sales, support, quality assurance, and possibly internal development.

Step 6: Map Related URLs and Help Resources

The tool also extracted numerous URLs from the help centre and legal documentation, such as:

- <https://help.tryhackme.com/en/articles/6498338-user-tokens>
- <https://tryhackme.com/pricing>
- <https://help.tryhackme.com/en/articles/8469856-legal-compliance-requirements>

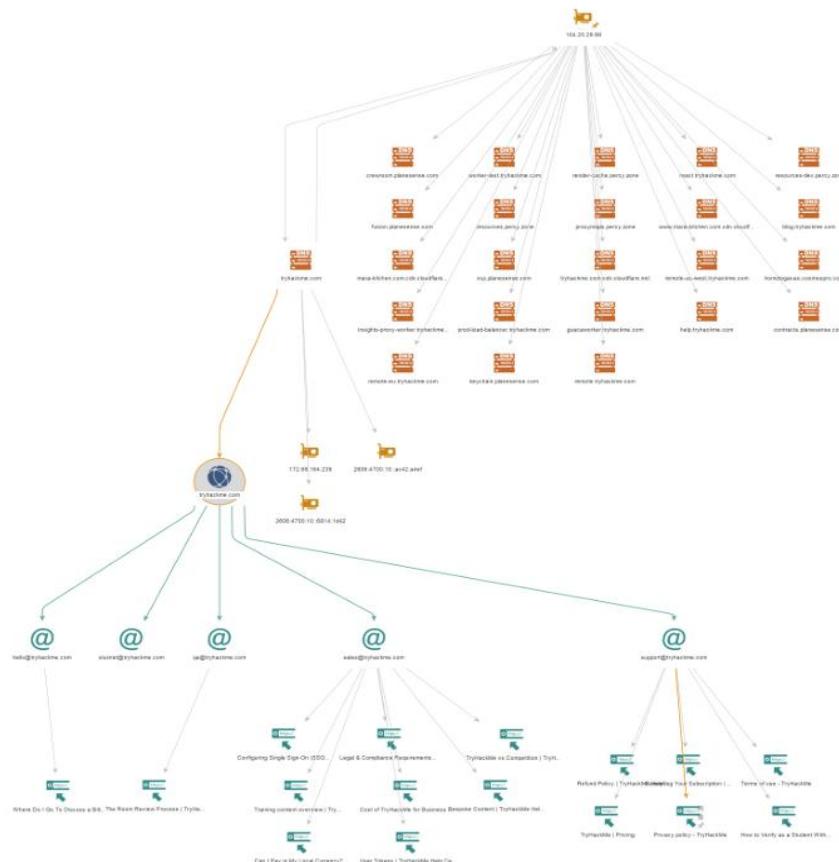
These resources reveal how TryHackMe structures its support and legal documentation, and where users are directed for billing, compliance, and token management.

Step 7: Visualize Relationships with Entity Graphs

Maltego allows us to visualize the connections between entities. Below is a summary of the top linked entities from our scan:

Rank	Entity Type	Value	Total Links
1	IPv4 Address	104.20.29.66	25
2	Email Address	sales@tryhackme.com	9
3	Email Address	support@tryhackme.com	7
4	Domain	tryhackme.com	6
5	DNS Name	tryhackme.com	6

Maltego Mapping Graphically



1. Top 10 Entities

Total number of entities	50
Total number of links	50

Ranked by Incoming Links

Rank	Type	Value	Incoming links
1	DNS Name	www.mara-kitchen.com.cdn.cloudflare.net	1
2	DNS Name	homologacao.cosmospro.com.br	1
3	DNS Name	tryhackme.com.cdn.cloudflare.net	1
4	DNS Name	remote-us-west.tryhackme.com	1
5	URL	User Tokens TryHackMe Help Center	1
6	URL	TryHackMe Pricing	1
7	URL	Where Do I Go To Discuss a Billing Issue with THM Support? : r ...	1
8	IPv4 Address	104.20.29.66	1
9	DNS Name	keychain.planesense.com	1
10	URL	Training content overview TryHackMe Help Center	1

Ranked by Outgoing Links

Rank	Type	Value	Outgoing links
1	IPv4 Address	104.20.29.66	24
2	Email Address	sales@tryhackme.com	8
3	Email Address	support@tryhackme.com	6
4	Domain	tryhackme.com	5
5	DNS Name	tryhackme.com	5
6	Email Address	qa@tryhackme.com	1
7	Email Address	hello@tryhackme.com	1
8	DNS Name	www.mara-kitchen.com.cdn.cloudflare.net	0
9	DNS Name	homologacao.cosmospro.com.br	0
10	DNS Name	tryhackme.com.cdn.cloudflare.net	0

Ranked by Total Links

Rank	Type	Value	Total links
1	IPv4 Address	104.20.29.66	25
2	Email Address	sales@tryhackme.com	9
3	Email Address	support@tryhackme.com	7
4	Domain	tryhackme.com	6
5	DNS Name	tryhackme.com	6
6	Email Address	qa@tryhackme.com	2
7	Email Address	hello@tryhackme.com	2
8	DNS Name	www.mara-kitchen.com.cdn.cloudflare.net	1
9	DNS Name	homologacao.cosmospro.com.br	1
10	DNS Name	tryhackme.com.cdn.cloudflare.net	1

2. Entities by Type

DNS Names (24)	
blog.tryhackme.com	contracts.planesense.com
crewroom.planesense.com	fusion.planesense.com
guacaworker.tryhackme.com	help.tryhackme.com
homologacao.cosmospro.com.br	insights-proxy-worker.tryhackme.com
keychain.planesense.com	mara-kitchen.com.cdn.cloudflare.net
prod-load-balancer.tryhackme.com	proxymaps.percy.zone
react.tryhackme.com	remote-eu.tryhackme.com
remote-us-west.tryhackme.com	remote.tryhackme.com
render-cache.percy.zone	resources-dev.percy.zone
resources.percy.zone	tryhackme.com
tryhackme.com.cdn.cloudflare.net	worker-test.tryhackme.com
www.mara-kitchen.com.cdn.cloudflare.net	xcp.planesense.com
Domains (1)	
tryhackme.com	
Email Addresses (5)	
hello@tryhackme.com	qa@tryhackme.com
sales@tryhackme.com	stuxnet@tryhackme.com
support@tryhackme.com	
IPv4 Addresses (2)	
104.20.29.66	172.66.164.239
IPv6 Addresses (2)	
2606:4700:10::6814:1d42	2606:4700:10::ac42:a4ef
URLs (16)	
Bespoke Content TryHackMe Help Center	Can I Pay in My Local Currency? TryHackMe Help Center
Cancelling Your Subscription TryHackMe Help Center	Configuring Single Sign-On (SSO) for your Organisation ...
Cost of TryHackMe for Business / Education TryHackMe Help Center	How to Verify as a Student Without a Student Email TryHackMe ...
Legal & Compliance Requirements TryHackMe Help Center	Privacy policy - TryHackMe
Refund Policy TryHackMe Help Center	Terms of use - TryHackMe
The Room Review Process TryHackMe Help Center	Training content overview TryHackMe Help Center
TryHackMe vs Competition TryHackMe Help Center	TryHackMe Pricing
User Tokens TryHackMe Help Center	Where Do I Go To Discuss a Billing Issue with THM Support? : r ...

3. Entity Details

	IPv4 Address IPv4Address 104.20.29.66
Weight	50
IP Address	104.20.29.66
Internal	false
Incoming (1)	
 DNS Name	tryhackme.com
Outgoing (24)	
 DNS Name	blog.tryhackme.com
 DNS Name	contracts.planesense.com
 DNS Name	crewroom.planesense.com
 DNS Name	fusion.planesense.com
 DNS Name	guacaworker.tryhackme.com
 DNS Name	help.tryhackme.com
 DNS Name	homologacao.cosmospro.com.br
 DNS Name	insights-proxy-worker.tryhackme.com
 DNS Name	keychain.planesense.com
 DNS Name	mara-kitchen.com.cdn.cloudflare.net
 DNS Name	prod-load-balancer.tryhackme.com
 DNS Name	proxymaps.percy.zone
 DNS Name	react.tryhackme.com
 DNS Name	remote-eu.tryhackme.com
 DNS Name	remote-us-west.tryhackme.com
 DNS Name	remote.tryhackme.com
 DNS Name	render-cache.percy.zone
 DNS Name	resources-dev.percy.zone
 DNS Name	resources.percy.zone
 DNS Name	tryhackme.com
 DNS Name	tryhackme.com.cdn.cloudflare.net
 DNS Name	worker-test.tryhackme.com
 DNS Name	www.mara-kitchen.com.cdn.cloudflare.net
 DNS Name	xcp.planesense.com

	Email Address EmailAddress sales@tryhackme.com
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Search Engine Results

TryHackMe vs Competition | TryHackMe Help Center

[<https://help.tryhackme.com/en/articles/8469838-tryhackme-vs-competition>]

Please **contact** your Customer Success Manager or Technical Support. Please **contact** sales@tryhackme.com if you'd like to explore whether TryHackMe could be a good ...

User Tokens | TryHackMe Help Center

[<https://help.tryhackme.com/en/articles/6498338-user-tokens>]

Please **contact** your Customer Success Manager or Technical Support. Please **contact** sales@tryhackme.com if you'd like to explore whether TryHackMe could be a ...

Can I Pay in My Local Currency? | TryHackMe Help Center

[<https://help.tryhackme.com/en/articles/8484112-can-i-pay-in-my-local-currency>]

Existing B2B or EDU customer and have questions? Please **contact** your Customer Success Manager or Technical Support. Please **contact** sales@tryhackme.com if you'd ...

Training content overview | TryHackMe Help Center

[<https://help.tryhackme.com/en/articles/8484133-training-content-overview>]

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