

# 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

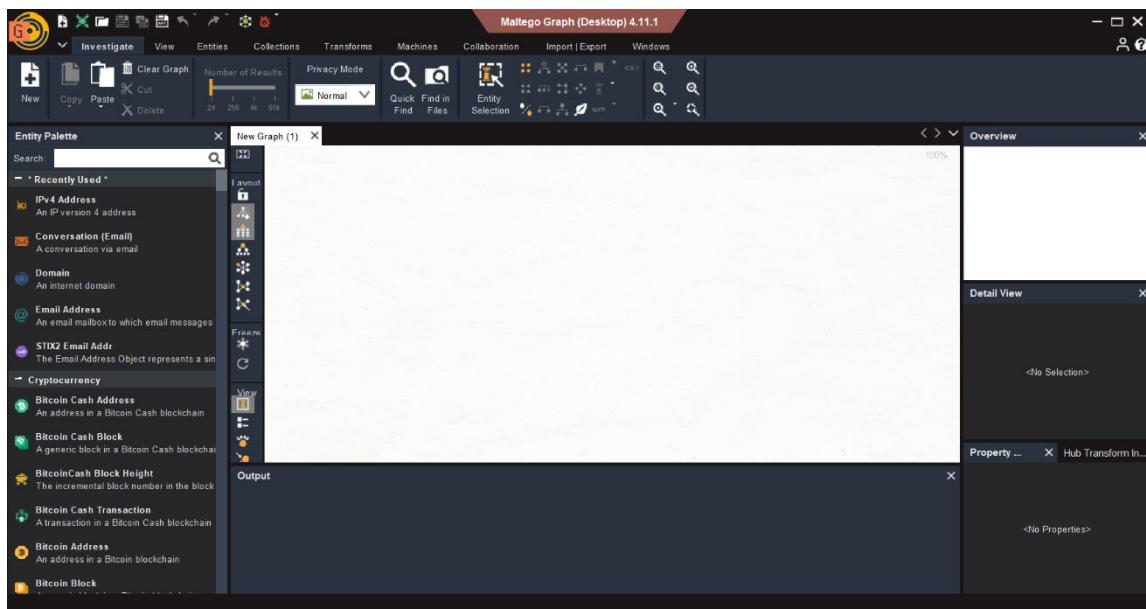
This is a tool for data mining and relationship mapping. It's a Graphical link analysis tool. This transforms data into interactive graphs for investigations.

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](https://tryhackme.com) as our case study.

## Step by step Guide to Map TryHackMe's Infrastructure

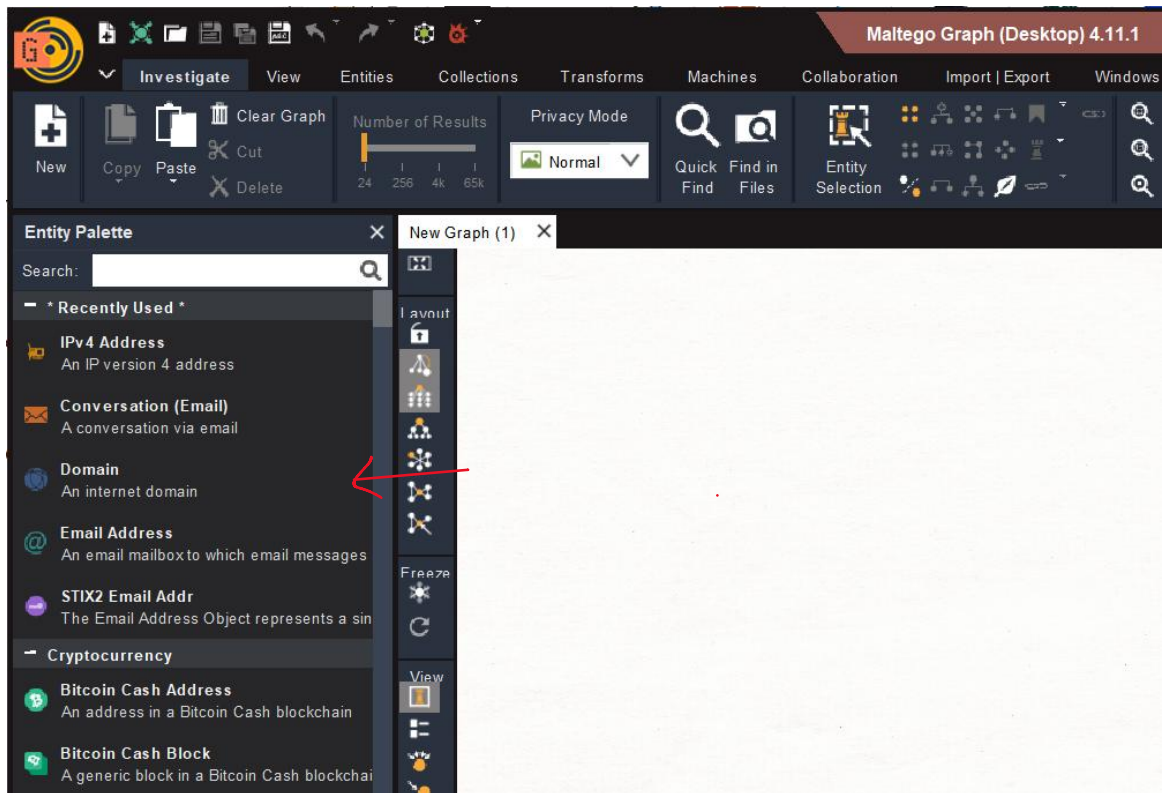
### Step 1: Installation & Setup

- 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

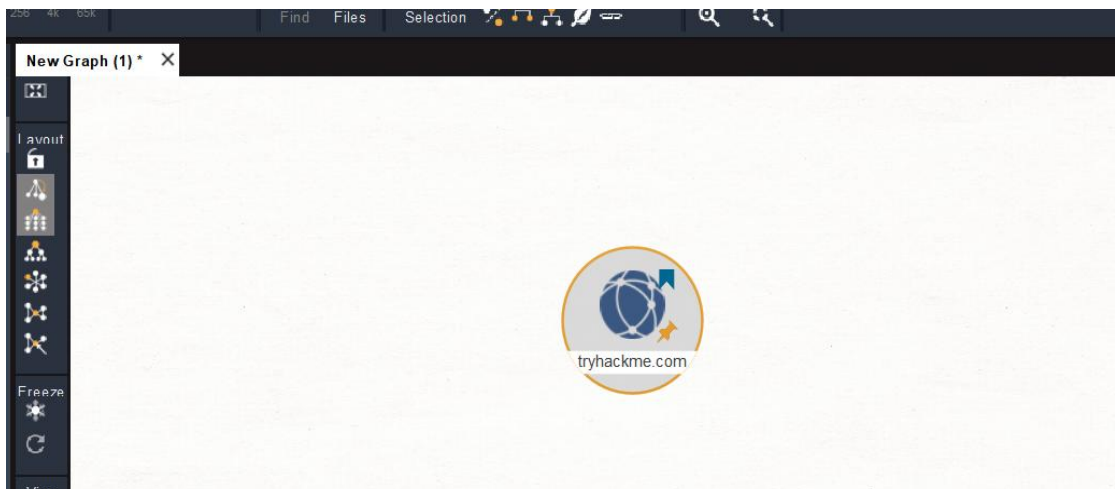


## Step 2: Initial Domain Analysis

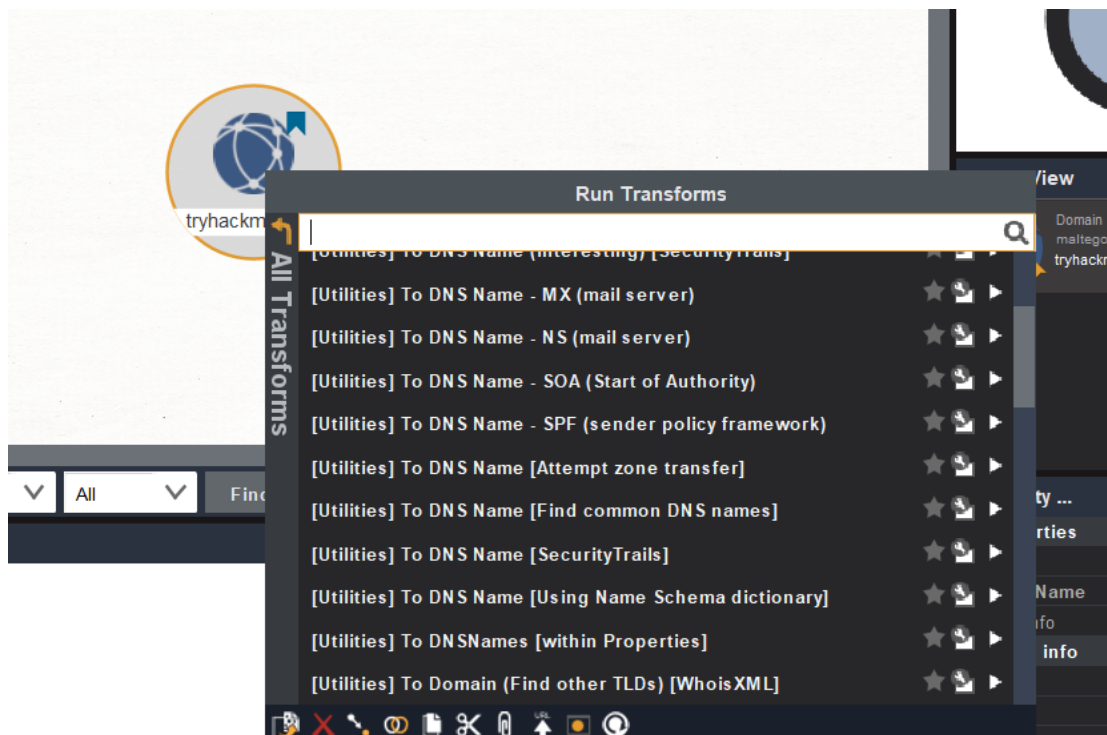
- Drag a “Domain” entity onto the Canvas



- 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>

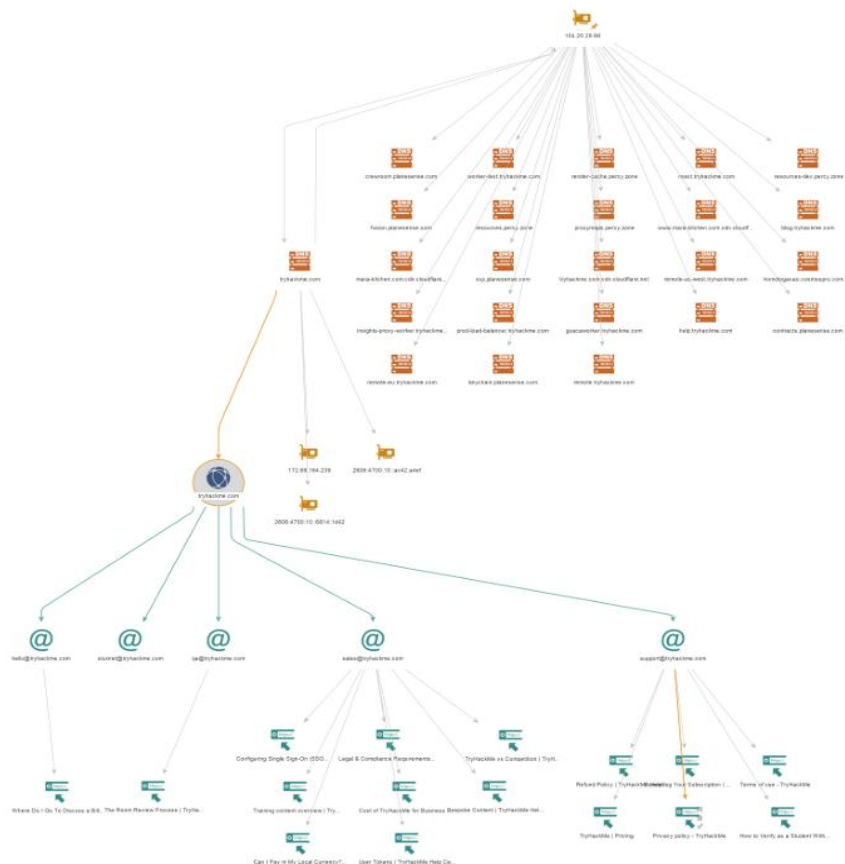
These resources reveal how TryHackMe structures its support and legal documentation, and where users are directed for billing, compliance, and token management.

## 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

## Search Engine Results

TryHackMe vs Competition | TryHackMe Help Center

[\[https://help.tryhackme.com/en/articles/8469838-tryhackme-vs-competition\]](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

[\[https://help.tryhackme.com/en/articles/6498338-user-tokens\]](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

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

[\[https://help.tryhackme.com/en/articles/8484133-training-content-overview\]](https://help.tryhackme.com/en/articles/8484133-training-content-overview)

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 ...

## Search Engine Results

Cost of TryHackMe for Business / Education | TryHackMe Help Center

[\[https://help.tryhackme.com/en/articles/8484063-cost-of-tryhackme-for-business-education\]](https://help.tryhackme.com/en/articles/8484063-cost-of-tryhackme-for-business-education)

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