

CEH Module 2: Foot Printing and Reconnaissance

Assignment - 01

(Marepalli Rakesh)

Given Lab Scenario

As a professional ethical hacker or pen tester, your first step is to gather maximum Information about the target organization by performing foot printing using search engines; you can perform advanced image searches, reverse image searches, advanced video searches, etc. Through the effective use of search engines, you can extract critical Information about a target organization such as technology platforms, employee details, Login pages, intranet portals, contact details, etc., which will help you in performing social Engineering and other types of advanced system attacks

Given Lab Objectives:

1. Gather information using advanced Google hacking techniques
2. Gather information from video search engines
3. Gather information from FTP search engines
4. Gather information from IoT search engines

Objective – 01

Gather information using advanced Google hacking techniques

:

- Advanced Google hacking often referred to as "Google dorking" or "Google hacking," is a technique that involves using advanced search operators and specific search queries to find sensitive or hidden information on the internet, primarily through the Google search engine. It's a form of information retrieval and reconnaissance that can be used for both legitimate and malicious purposes, depending on the intent of the user.
- To gather critical information using advanced google hacking techniques in this case I am considering multiple websites as my target because justifying lab scenario with one single target is a little bit complex (ex: www.intellipaat.com, www.vulnweb.com, www.jntuh.ac.in and etc.)
- As mentioned in lab scenario here I am using below following search queries/commands to gather critical information about my target organizations such as technology platform, employee details, login pages, intranet portals, contact details etc.

Finding login pages using google dorking/hacking command : `(intitle:login site:vulnweb.com)`

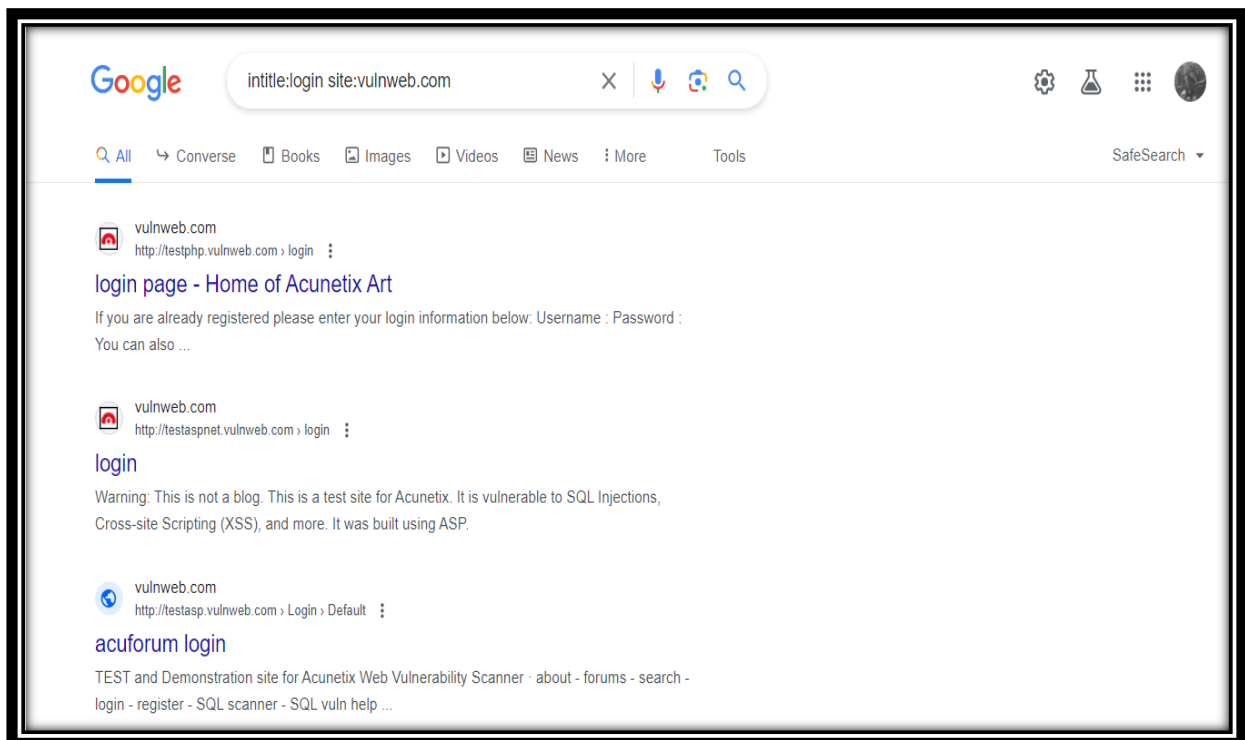
Finding emails of a target organization using command : `(intext:gmail.com site:jntuh.ac.in)`

Finding contact information about the target using command : `(inurl:contact site:jntuh.ac.in)`

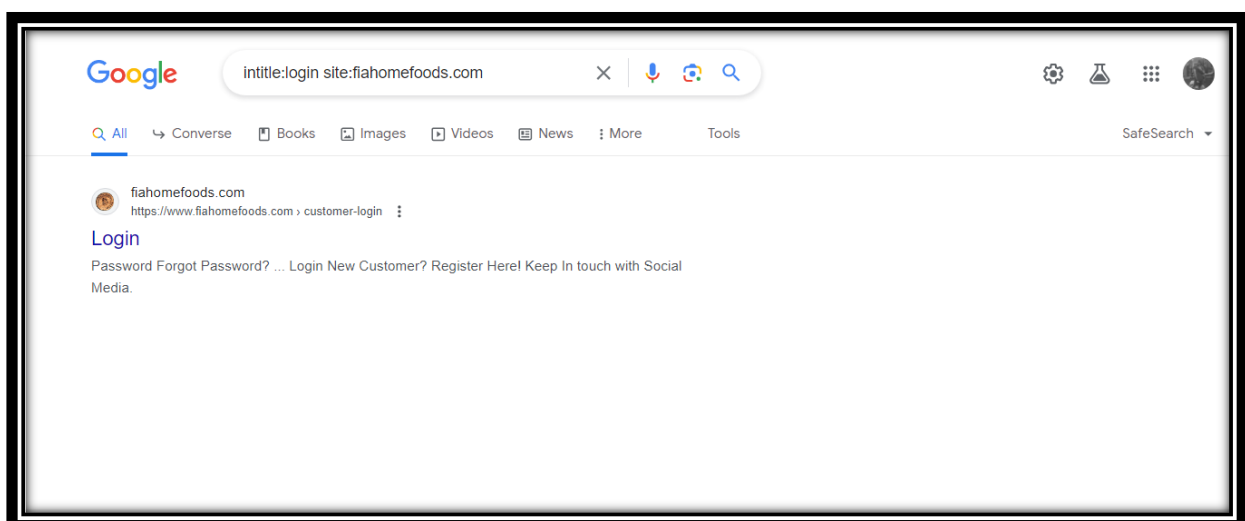
Finding digital files about the target using command: `(site:Intellipaat.com filetype:pdf)`

Finding login pages using google dorking/hacking command: (intitle:login site:vulnweb.com)

To find the login pages of my target org using advanced google hacking techniques first I opened google search engine. After that I used the command (intitle:login site:vulnweb.com) on search bar. This search command uses **intitle** and **site** google advance operators which restrict results to pages on vulnweb.com website that contain login pages. As shown in below



The generated search results are restricted to login pages of my target organization because of we are using google advanced search parameter intitle and site

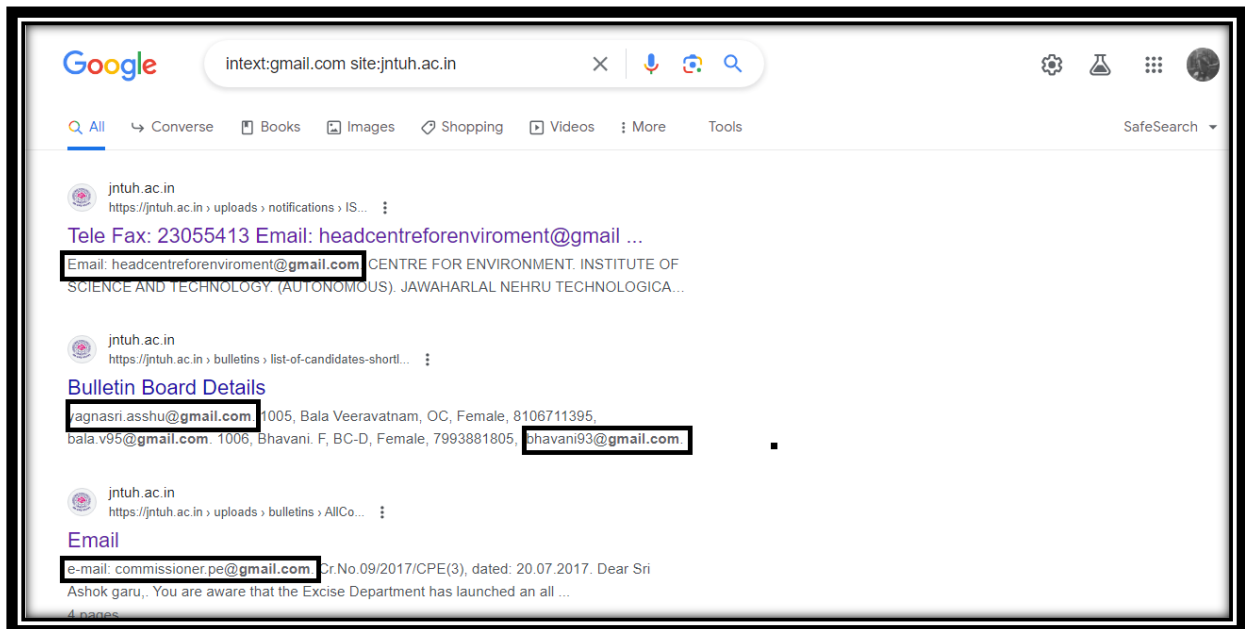


Those google search results takes me to the login pages of target organizations

Finding emails of a target organization using command:

(intext:gmail.com site:jntuh.ac.in)

To find the emails of my target org using advanced google hacking techniques first I opened my google search engine. After that I used the search bar of google and used the command (intext:gmail.com site:jntuh.ac.in) and google delivered the results which are shown below



The generated search results are restricted to emails related information of my target organization because of we are using google advanced search parameter intext and site

When I go inside the 2nd search result (bulletin board details) I found below result

Jawaharlal Nehru Technological University Hyderabad
Kukatpally, Hyderabad - 500 085, Telangana, India
ACCREDITED BY NAAC WITH 'A' GRADE

About Us | Administration | Academics | Directorates | Main Campus Institutions | Programs Offered | Departments / Centres | CoE | Infrastructure | ARIIA | Awards | NIRF |

Gold Medals | Honoris Causa | IQAC | Alumni | Student Corner | SC/ST Cell | Contact Us | Newsletter

Best Teacher Awards

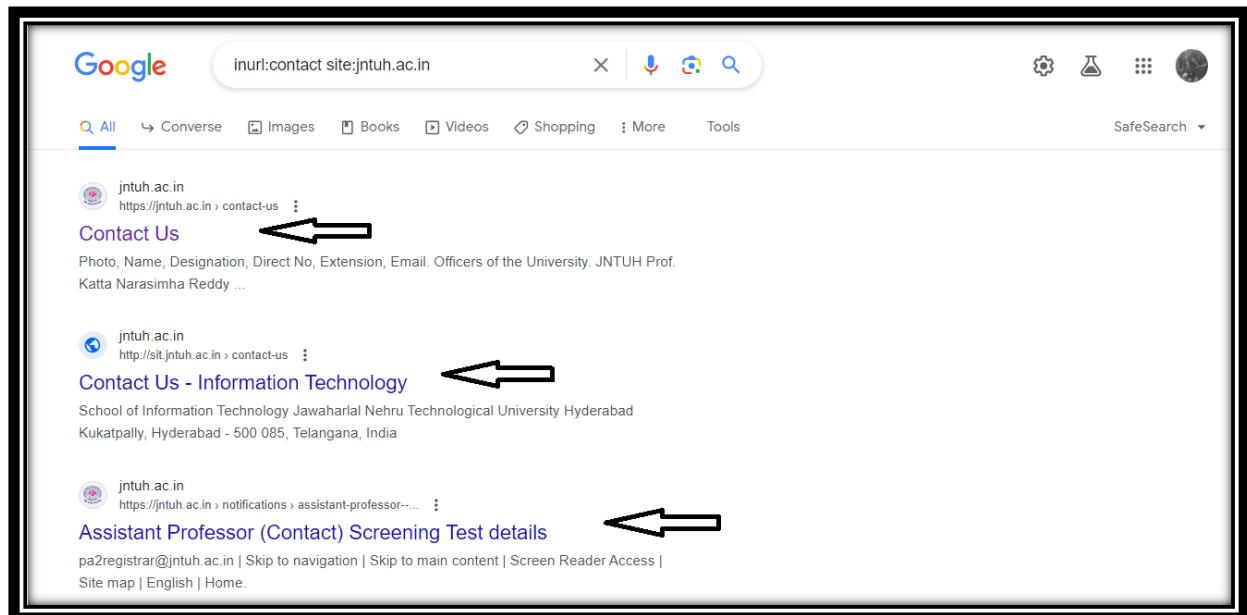
Reg.No.	Name	Category	Gender	Mobile Number	email ID
1001	Ambica.Y	BC-D	Female	9573889558	ambica.liikki@gmail.com
1002	Anitha. Ch	BC-B	Female	9032746151	anithach567@gmail.com
1003	Anusha. K	SC	Female	9052760230	anushakuraganti@gmail.com
1004	Ashwini. Y	OC	Female	9553984573	agnasri.asshu@gmail.com
1005	Bala Veeravatnam	OC	Female	8106711395	bala.v95@gmail.com
1006	Bhavani. F	BC-D	Female	7993881805	bhavani93@gmail.com
1007	Deepika Rani. N	BC-B	Female	9000880620	karkadegovindarao@gmail.com
1008	Govinda Rao. K	SC	Male	9000284542	deepikarani543@gmail.com
1009	Gnyana Deepa. Y	OC	Female	9000399729	deepayg@gmail.com
1010	Kamal Kumar. G	SC	Male	9505796218	gkamal514@gmail.com

That's how I used advanced google hacking techniques to get emails of my target organization

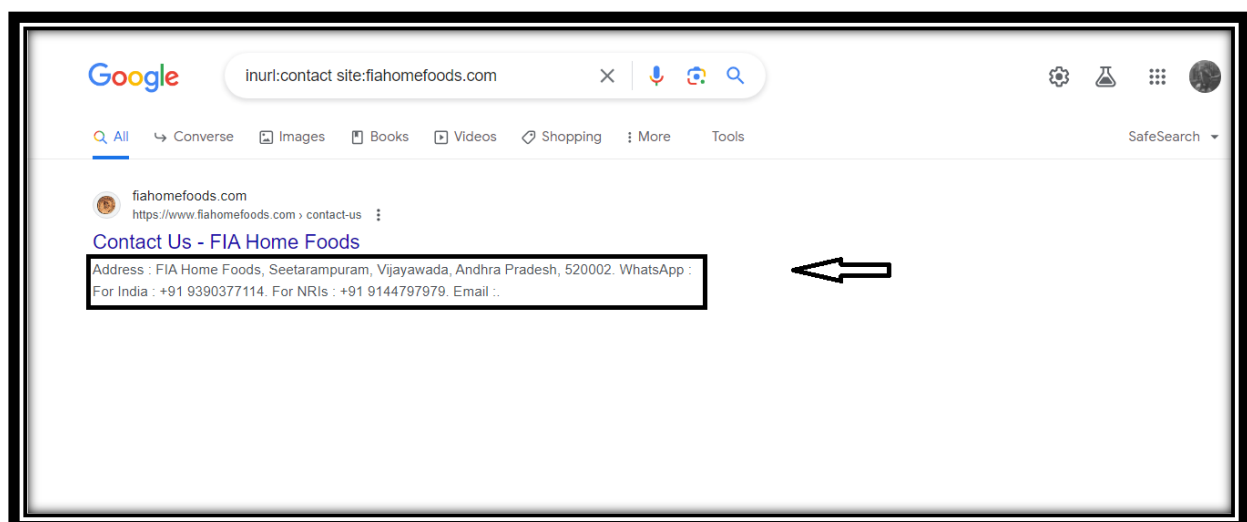
Finding contact information about the target using command:

(inurl:contact site:jntuh.ac.in)

To find the contact information of my target organization using advanced google hacking techniques first I opened my google search engine. After that I used the search bar of google and used the command (inurl:contact site:jntuh.ac.in) and google delivered the results which are shown below



The generated search results are restricted to contact of my target organization because of we are using google advanced search parameter inurl and site

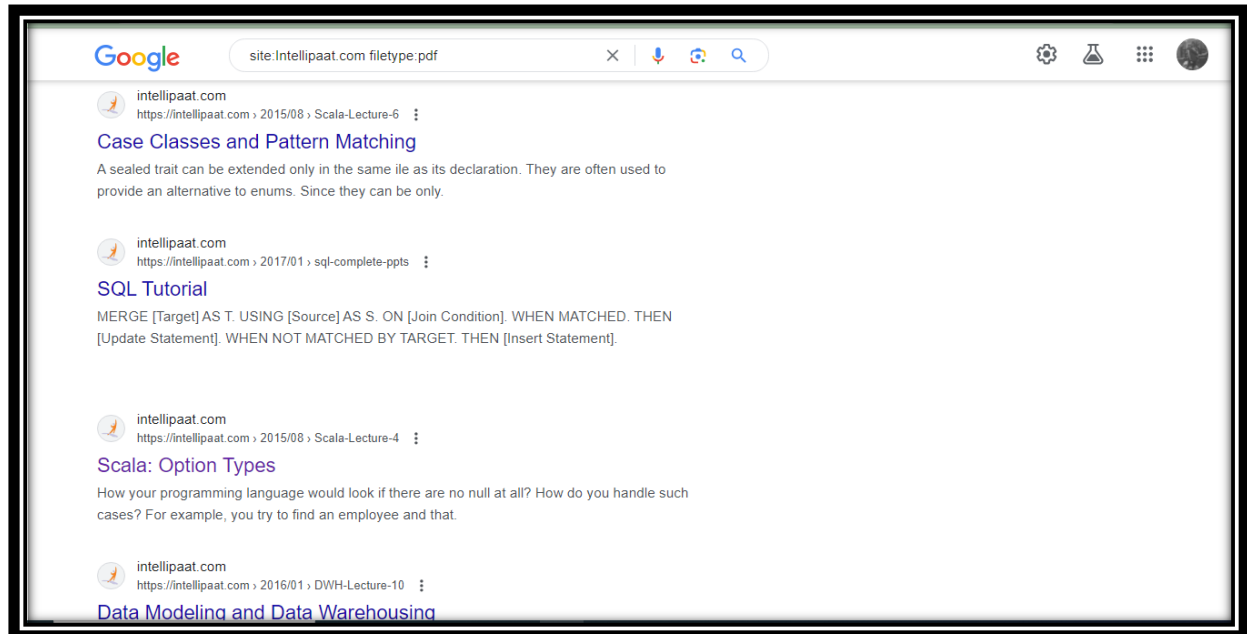


That's how I used advanced google hacking techniques to get contact information of my target organizations

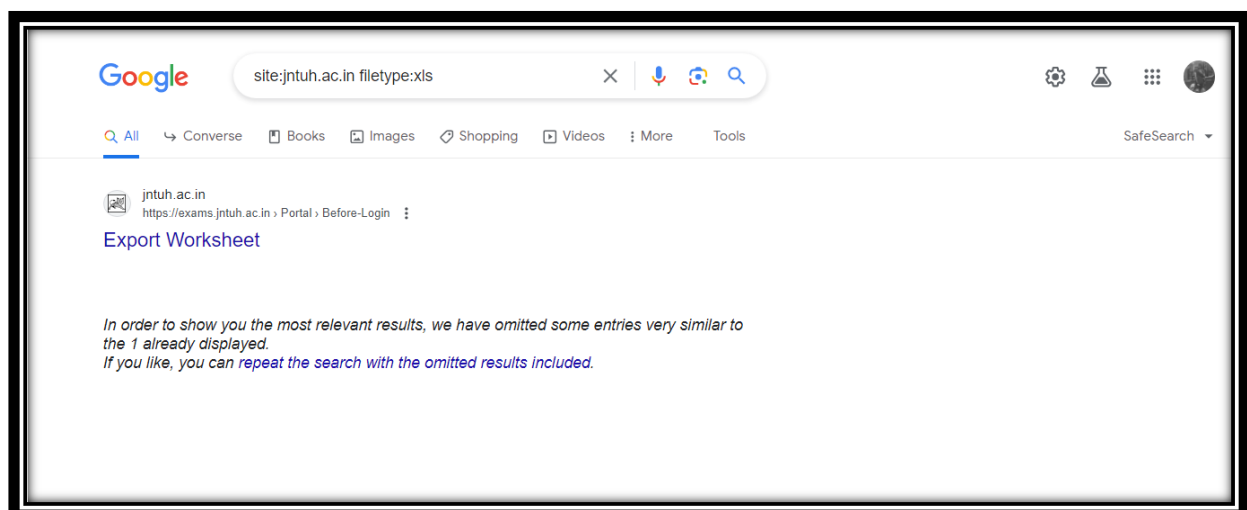
Finding digital files about the target using command:

(site:Intellipaat.com filetype:pdf)

To find the digital files of my target organization using advanced google hacking techniques first I opened my google search engine. After that I used the search bar of google and used the command (site:intellipaat.com filetype:pdf) and google delivered the results which are shown below



The generated search results are restricted to different files of my target organization because of we are using google advanced search parameter file type (it maybe pdf, xls.txt.doc) and site



That's how I used advanced google hacking techniques to get digital files of my target organizations

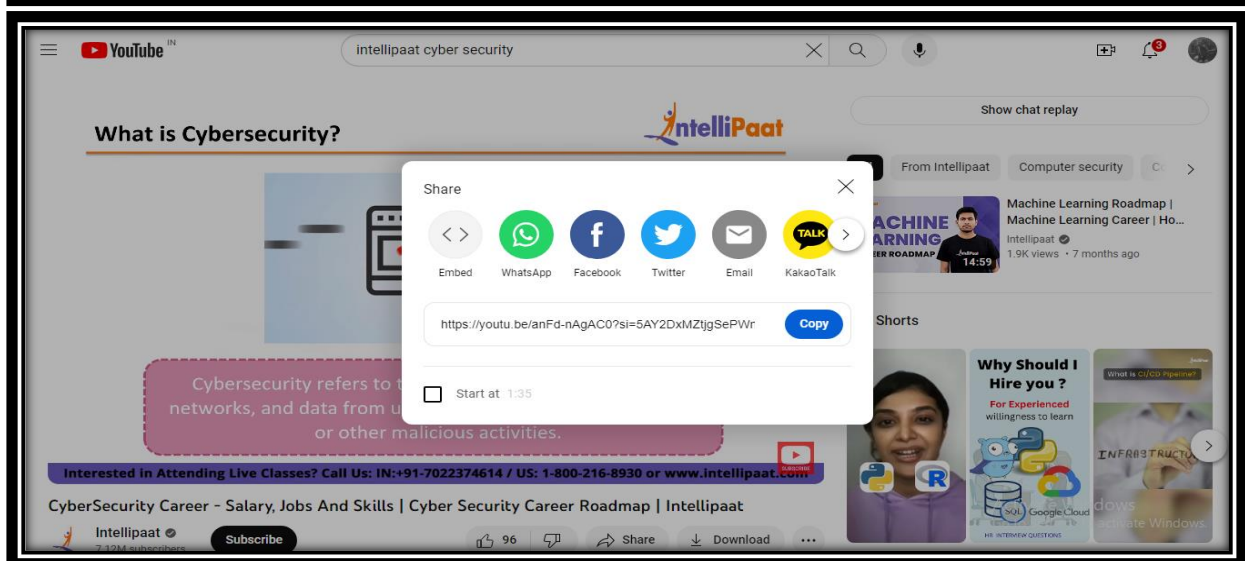
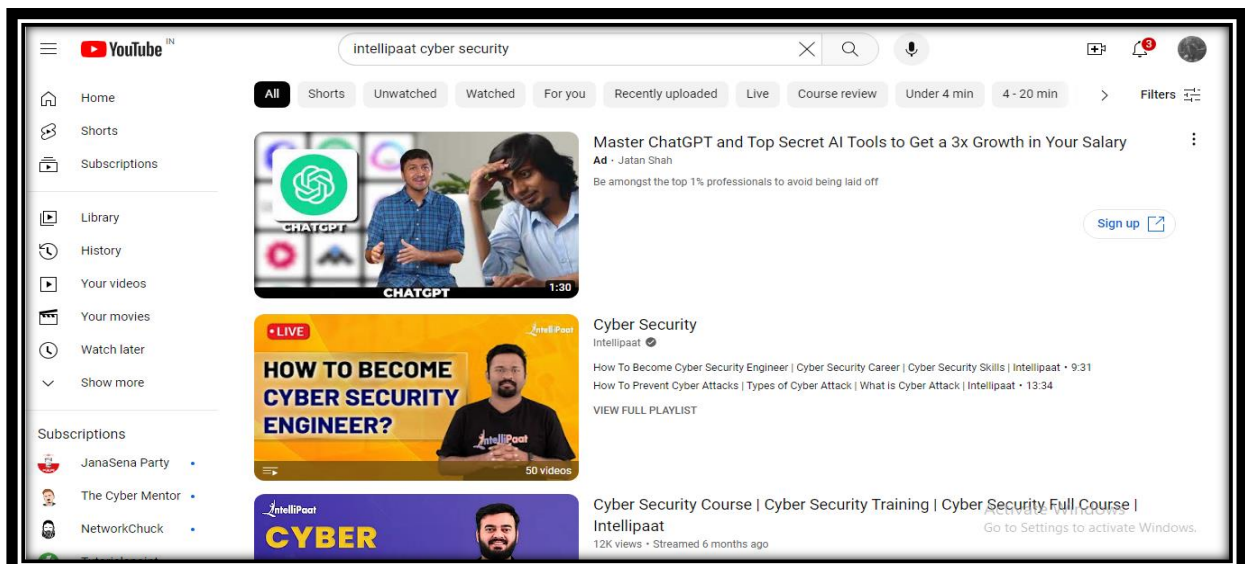
Objective – 02

Gather information from video search engines

- Target Organization: Intellipaat
- Video Search Engine: YouTube
- Website for Gathering Video Analytics: MW Metadata

(<https://mattw.io/youtube-metadata/>)

1. I began by opening my web browser and navigating to YouTube.
2. Using the YouTube search bar, I looked up videos related to the organization Intellipaat and selected one of interest. I then copied the URL for that video.
3. I proceeded to access a YouTube metadata viewer through a provided link.
4. In the metadata viewer, I pasted the copied video URL into the search bar and clicked the "submit" button.
5. The metadata viewer promptly displayed a wealth of information, including details such as the upload time, status, likes, localization, and content specifics for the selected video.



01

MW Metadata Normal Bulk

☒ Dark

MW Metadata normal grabs singular details about a YouTube video and its uploader, playlist and its creator, or channel.

Submit a link or id to a video, playlist, or channel

Submit

Accepted formats

- https://www.youtube.com/watch?v=video_id
- https://youtube.com/shorts/video_id
- https://youtu.be/video_id
- https://www.youtube.com/playlist?list=playlist_id
- https://www.youtube.com/channel/channel_id
- <https://www.youtube.com/user/username>
- https://www.youtube.com/@channel_handle
- https://www.youtube.com/c/custom_url
- https://www.youtube.com/custom_url
- Also accepts direct ids: [video_id](#), [playlist_id](#), [channel_id](#)

Share

Share this result:



What happened to export?

Activate Windows
Go to Settings to activate Windows.

✓ Snippet

```
{
  "publishedAt": "2023-02-12T12:30:10Z",
  "channelId": "UCCKtnahuRFYIBtNmKT5IYyg",
  "title": "CyberSecurity Career - Salary, Jobs And Skills | Cyber Security Career Roadmap | Intellipaat",
  "description": "Intellipaat's Advanced Certification in Cyber Security: https://intellipaat.com/cyber-security-eict-iit-guwahati/\n\n",
  "thumbnails": {
    "default": {
```



CyberSecurity Career - Salary, Jobs And Skills | Cyber Security Career Roadmap | Intellipaat

Published by Intellipaat

Activate Windows
Go to Settings to activate Windows.

✓ Statistics

```
{
  "viewCount": "2843",
  "likeCount": "96",
  "favoriteCount": "0",
  "commentCount": "12"
}
```

YouTube no longer provides the [dislikeCount](#) since 2021-12-13 (see [more here](#)).

Want dislikes back? Check out the [return-youtube-dislike](#) project!

🔍 Geolocation

```
{}
```

The video does not have recordingDetails.

✓ Status

```
{
  "uploadStatus": "processed",
  "privacyStatus": "public",
  "license": "youtube",
  "embeddable": true,
  "publicStatsViewable": false,
  "madeForKids": false
}
```

Activate Windows
Go to Settings to activate Windows.

This video may be embedded on other websites

This video is not child-directed

✔ Livestream Details

```
{
  "actualStartTime": "2023-02-12T12:30:10Z",
  "actualEndTime": "2023-02-12T12:47:53Z",
  "scheduledStartTime": "2023-02-12T12:30:00Z"
}
```

The stream started on **Sun, 12 Feb 2023 12:30:10 GMT** (8 months ago) (convert)

The stream ended on **Sun, 12 Feb 2023 12:47:53 GMT** (8 months ago) (convert)

The stream was **10s** late to start

The stream is over. It's length was **17m 43s**

✔ Localizations

```
{
  "en": {
    "description": "▶ Intellipaas Advanced Certification in Cyber Security: https://intellipaas.com/cyber-security-eict-iit-guwahati/\n",
    "title": "CyberSecurity Career - Salary, Jobs And Skills | Cyber Security Career Roadmap | Intellipaas"
  }
}
```

Activate Windows

Go to Settings to activate Windows.

Localizations for...

- EN which is English

✔ Content Details

```
{
  "duration": "PT15M48S",
  "dimension": "2d",
  "definition": "hd",
  "caption": "false",
  "licensedContent": false,
  "contentRating": {},
  "projection": "rectangular"
}
```

The video length was **15m 48s**

✔ Topic Details

```
{
  "topicCategories": [
    "https://en.wikipedia.org/wiki/Knowledge",
    "https://en.wikipedia.org/wiki/Technology"
  ]
}
```

- Knowledge
- Technology

Activate Windows

Go to Settings to activate Windows.

? Thumbnails

Reverse image search all four thumbnail images.



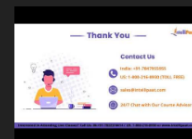
Click to reverse image search



Click to reverse image search



Click to reverse image search



Click to reverse image search

? More

Check other resources for details or archival.

- Archive.org (details) - youtube-anFd-nAgAC0
- Archive.org (direct video raw) - anFd-nAgAC0
- Archive.org (direct video wayback-header) - anFd-nAgAC0
- Archive.org (search) - CyberSecurity Career - Salary, Jobs And Skills | Cyber Security Career Roadmap | Intellipaas
- Archive.org (web) - https://www.youtube.com/watch?v=anFd-nAgAC0
- Filmot.com - https://filmot.com/video/anFd-nAgAC0
- GhostArchive.org - anFd-nAgAC0
- Google - "CyberSecurity Career - Salary, Jobs And Skills | Cyber Security Career Roadmap | Intellipaas"
- Google - "anFd-nAgAC0"
- Hobune Archive - anFd-nAgAC0

Activate Windows

Go to Settings to activate Windows.

✓ Statistics

```
{
  "viewCount": "143136659",
  "subscriberCount": "7120000",
  "hiddenSubscriberCount": false,
  "videoCount": "3860"
}
```

This channel's subscriber count qualifies for benefit level **gold** (1m-10m). [Click here](#) to learn more.

Check out this channel on [SocialBlade](#).

01 Inspect the metadata for all of this channel's videos

✓ Branding Settings

```
{
  "channel": {
    "title": "Intellipaat",
    "description": "Intellipaat is a global online professional training provider. We are offering some of the most updated, industry-des",
    "keywords": "Ai Analytics Angular \"Apache Spark\" \"Artificial Intelligence\" Aws Azure \"Big Data\" Blockchain Cassandra \"Cloud Co",
    "trackingAnalyticsAccountId": "UA-43601575",
    "unsubscribedTrailer": "-J4NqPtrTLo",
  }
}
```

Activate Windows

✓ Content Details

```
{
  "relatedPlaylists": {
    "likes": "",
    "uploads": "UUCktnahuRFYIBtNnKT5IYyg"
  }
}
```

Uploads playlist

⊖ Localizations

The channel does not have localizations.

✓ Status

```
{
  "privacyStatus": "public",
  "isLinked": true,
  "longUploadsStatus": "longUploadsUnspecified",
  "madeForKids": false
}
```

Activate Windows

? More

Check other resources for details or archival.

- [Archive.org \(search\) - @intellipaat](#)
- [Archive.org \(search\) - Intellipaat](#)
- [Archive.org \(search\) - UUCktnahuRFYIBtNnKT5IYyg](#)
- [Archive.org \(search\) - creator:"Intellipaat"](#)
- [Archive.org \(search\) - subject:"Intellipaat"](#)
- [Archive.org \(search\) - subject:"UUCktnahuRFYIBtNnKT5IYyg"](#)
- [Archive.org - https://www.youtube.com/@intellipaat](#)
- [Archive.org - https://www.youtube.com/@intellipaat](#)
- [Archive.org - https://www.youtube.com/channel/UUCktnahuRFYIBtNnKT5IYyg](#)
- [Filmot.com - https://filmot.com/channel/UUCktnahuRFYIBtNnKT5IYyg](#)
- [Google - "@intellipaat"](#)
- [Google - "Intellipaat"](#)
- [Google - "UUCktnahuRFYIBtNnKT5IYyg"](#)
- [Hobune Archive - UUCktnahuRFYIBtNnKT5IYyg](#)
- [Socialblade.com - UUCktnahuRFYIBtNnKT5IYyg](#)

Activate Windows

With the assistance of a MW metadata viewer, I successfully extracted video analytics and essential information related to my target organization.

Objective – 03

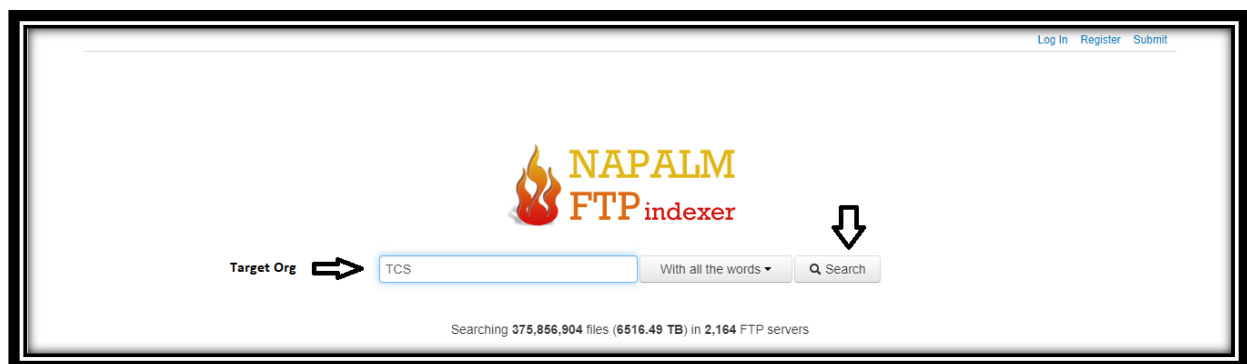
Gather information from FTP search engines

- FTP search engines are specialized tools or websites that allow users to search for and discover files and content available on FTP servers across the internet.
- These search engines index the contents of FTP servers, making it easier for users to find specific files or data. Users can search for various types of files, such as software, documents, media, and more.
- FTP search engines can be useful for locating and downloading files that may not be easily accessible through traditional web search engines.

Target Organization: **TCS**

FTP search engine/website: **NAPLAM FTP Indexer & freeware web ftp search**

1. I opened my web browser and accessed the Napalm FTP Index.
2. In the Napalm FTP Index search bar, I entered "TCS," my target organization.
3. I successfully located a variety of files, including images, videos, and documents related to TCS, all available on an FTP server. I also discovered the directories where these files were stored.
4. I repeated the process using Freeware Web FTP Search.
5. This time, I noticed an added feature: the ability to filter results by category, including images, videos, music files, and more.





Showing results 0 to 19 of about 10000 for "tcs"

Order

Related keywords

- [node](#) [css](#) [loader](#) [tcs](#) [linux](#) [rpm](#) [tar](#) [pool](#) [universe](#) [cs14](#)
- [orig](#) [postcss](#) [Packages](#) [src](#) [pub](#) [opensuse](#) [ports](#) [update](#) [leap](#)
- [oss](#) [modules](#) [x86](#) [debug](#) [ppc64le](#) [fedora](#) [releases](#) [Everything](#) [lp151](#)
- [openbsd](#) [snapshots](#)

</pool/universe/n/node-css-loader/>

[node-css-loader_6.7.2+~cs14.0.11.orig-postcss-selector-parser.tar.gz](#)

220.1 KB

Last checked: 2023-09-18 21:03 Similar files: [\[Browse\]](#)

</pool/universe/n/node-css-loader/>

[node-css-loader_6.7.2+~cs14.0.11.orig-postcss-modules-scope.tar.gz](#)

82.8 KB

Last checked: 2023-09-18 21:03 Similar files: [\[Browse\]](#)

</pool/universe/n/node-css-loader/>

[node-css-loader_6.7.2+~cs14.0.11.orig-postcss-modules-local-by-default.tar.gz](#)

84.1 KB

Last checked: 2023-09-18 21:03 Similar files: [\[Browse\]](#)

</pool/universe/n/node-css-loader/>

[node-css-loader_5.0.1+~cs14.0.5.orig-postcss-selector-parser.tar.gz](#)

130.6 KB

Last checked: 2023-09-18 21:03 Similar files: [\[Browse\]](#)

</pool/universe/n/node-css-loader/>

[node-css-loader_5.0.1+~cs14.0.5.orig-postcss-modules-scope.tar.gz](#)

82.8 KB

Last checked: 2023-09-18 21:03 Similar files: [\[Browse\]](#)



[Log In](#) [Register](#) [Submit](#)

Cran web packages itcSegment

Directory [./1/cran/web/packages/itcSegment/](/1/cran/web/packages/itcSegment/)



Location of the file

Last checked 2023-09-18 20:58

Files 1

File(s) [itcSegment.pdf](#)

104.6 KB

FreewareWeb.com

Freeware:



Works Where You Write

Quick Navigation

[Home / New Additions](#)
[Browse By Category](#)
[Comics of the Day](#)
[Feedback](#)
[Fun Filter](#)
[FTP Search](#)
[Link to Us](#)
[Site Search](#)
[Advertising Info](#)
[Newsletter Information](#)
[Submit/Update Freeware](#)
[FreewareWeb Articles](#)
[Top Downloads Today](#)

Freeware Search

Free Services

FTP File Search:

This form will search through thousands of FTP sites for any filename or keyword you want, such as any DLL, or OCX file. Just enter the filename below and chances are you'll find it in some FTP site somewhere. This search is case insensitive.

File / Directory Name

Target Org

Search type

☐ exact search first

Results per page:

Sort:

Output ☐ hide unix files (FreeBSD, Linux, ...)

☐ show size in bytes

Size from:

to:

Limit to domain:

Limit to path:

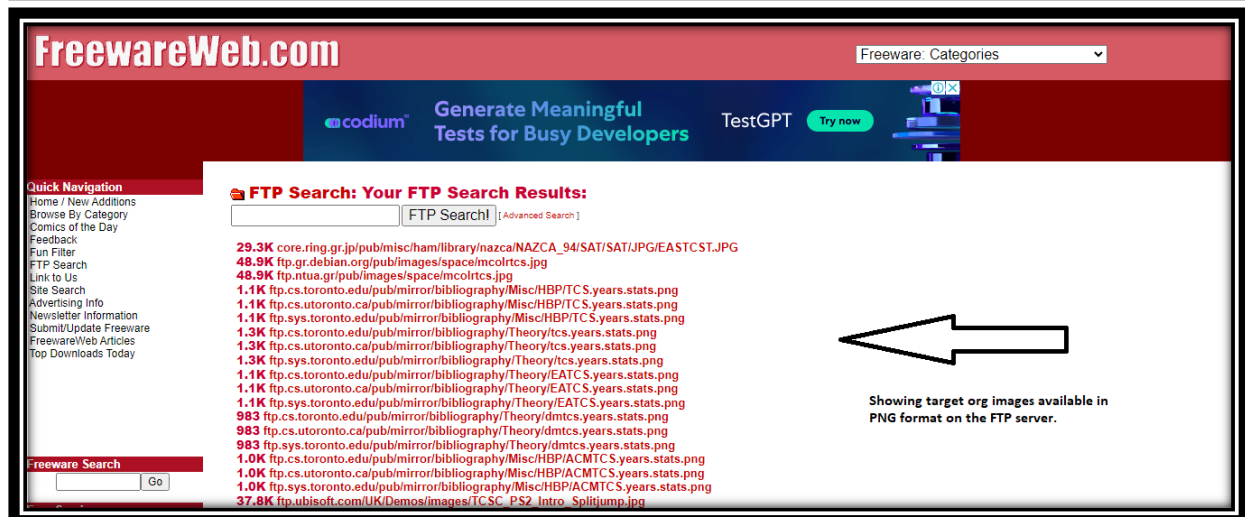
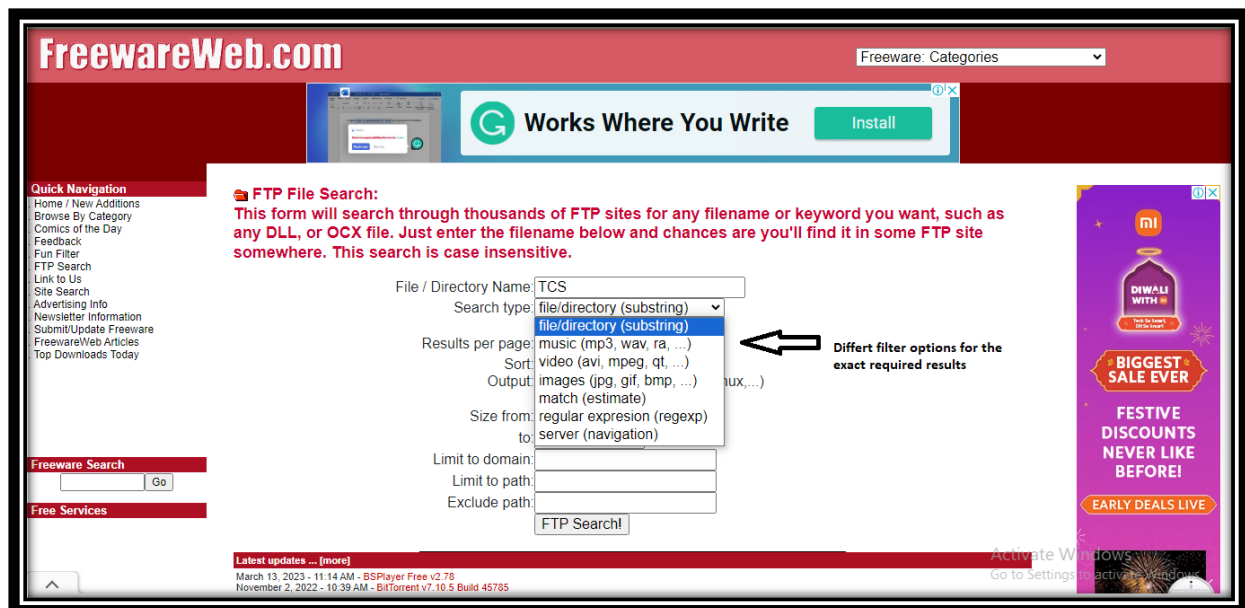
Exclude path:

[Latest updates ... \[more\]](#)

March 13, 2023 - 11:14 AM - BSPlayer Free v2.78

November 2, 2022 - 10:39 AM - BitTorrent v7.10.5 Build 45785

Activate Windows
Go to Settings to activate Windows.



This is how I collected information about the target organization, using FTP search engines like Napalm and Freeware Web.

Objective – 04

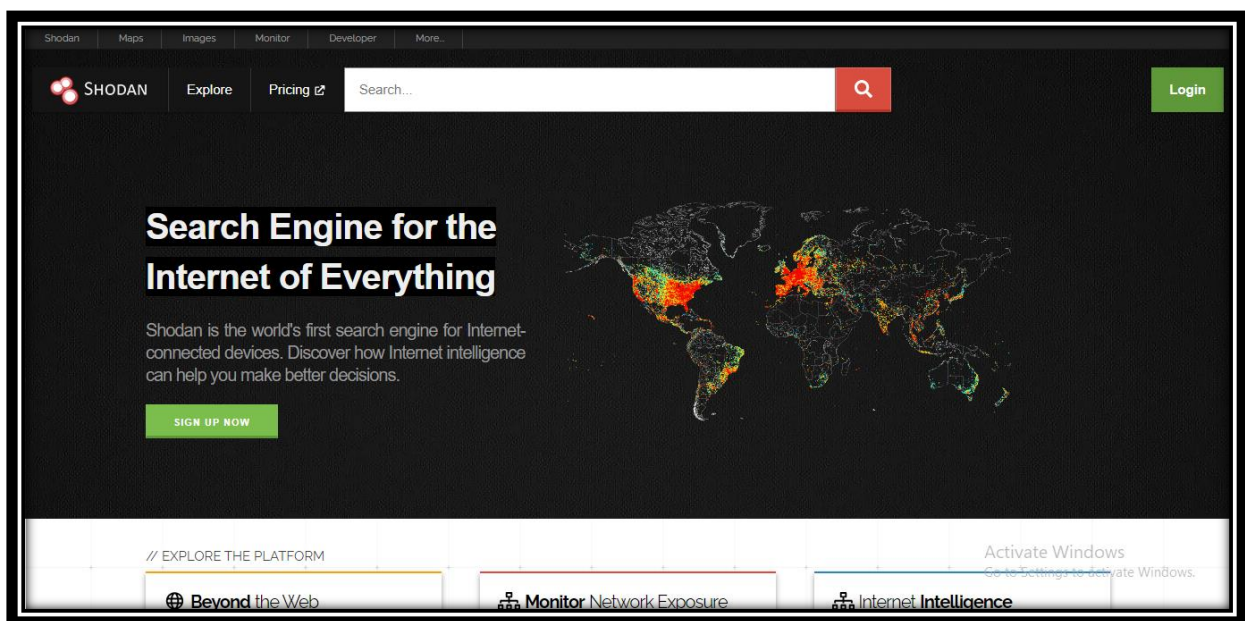
Gather information from IoT search engines

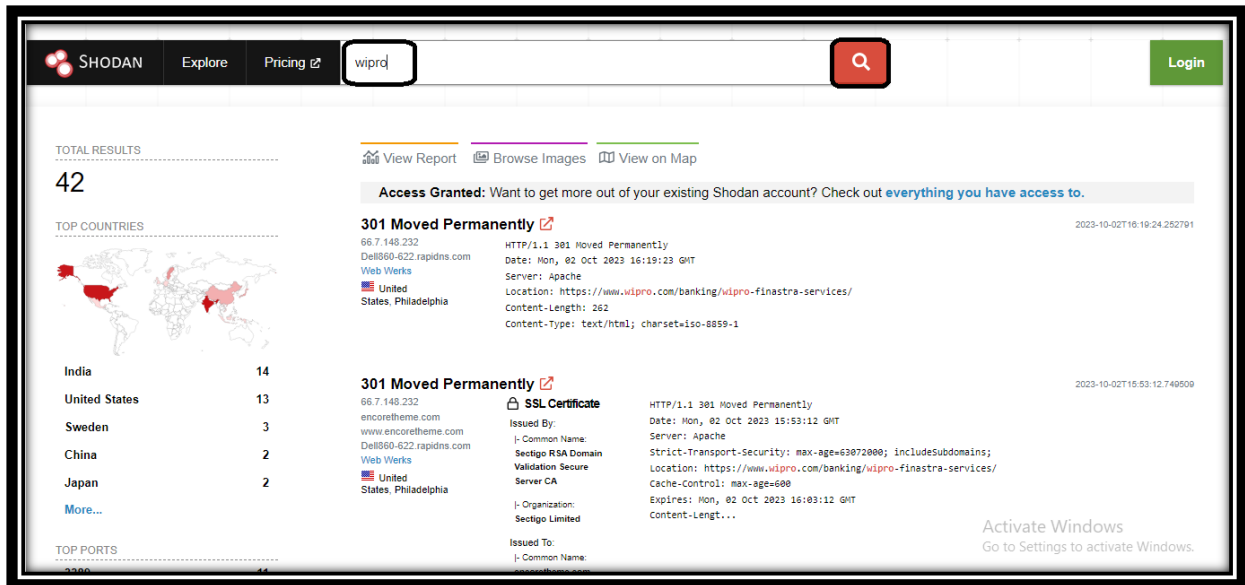
- The Internet of Things (IoT) refers to a network of physical objects, devices, vehicles, and other items that are embedded with sensors, software, and connectivity, allowing them to collect and exchange data over the internet.
- Unlike traditional search engines used for web content, IoT search engines are specialized tools designed to discover and access IoT devices and their data on the internet. These search engines can help users locate and interact with IoT devices, which can be especially useful for developers, researchers, and organizations involved in IoT-related projects

Target Organization: **WIPRO**

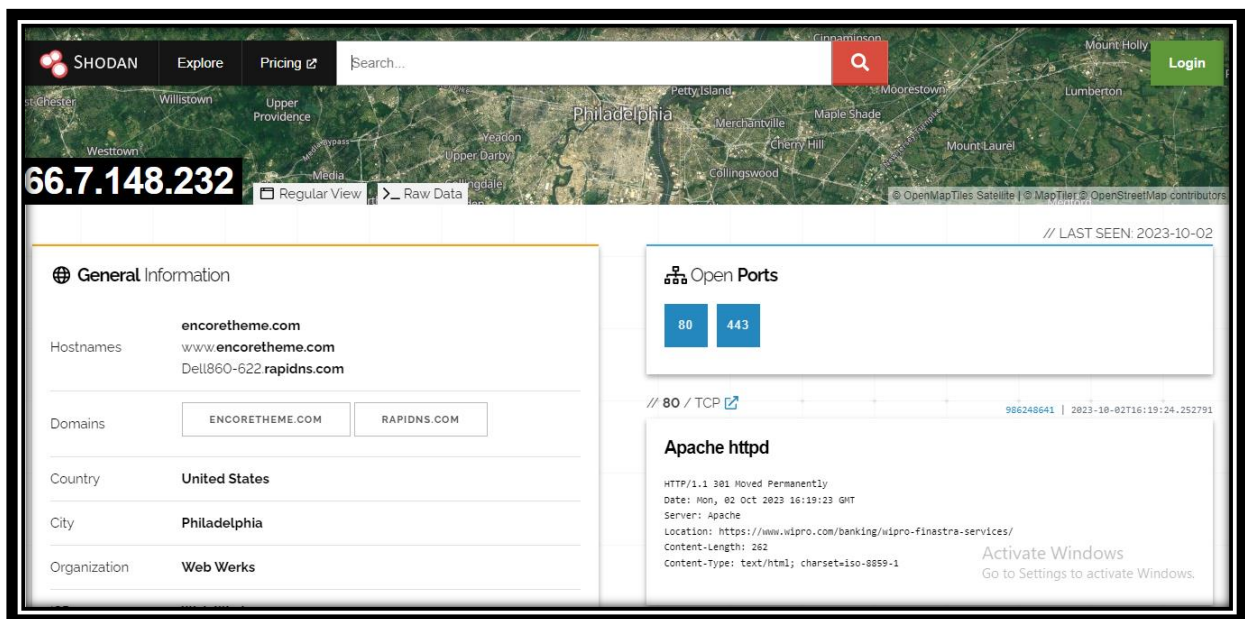
IoT Search Engine: **SHODAN (shodan.io)**

1. I started by opening my browser and navigating to Shodan.io.
2. Once on Shodan's platform, I entered my target into the search bar.
3. The search results provided me with various vulnerable details about my target, including server information, open ports, operating system, domains and more.





Then I navigated to the first result and got below information



This is how I gathered vulnerable information about my target organization using IoT search engines (SHODAN).

Submitted By
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(Marepalli.rakesh@gmail.com)