

## Domain 02 Demo 02

# **Analyzing Malware Reports Using VirusTotal**

**Objective:** To perform a comprehensive malware analysis using VirusTotal, hash, IP information, and graph visualization to understand the malware's behavior and network relationships

Tools required: None

Prerequisites: None

#### Steps to be followed:

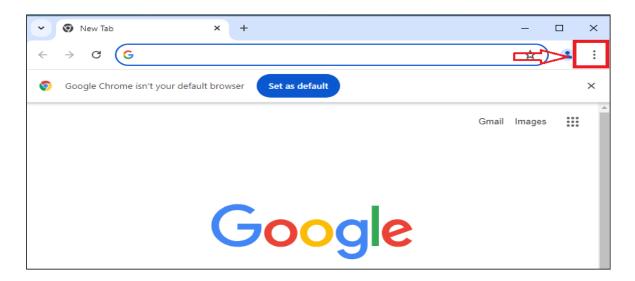
1. Disable the Google Chrome security settings

2. Disable the Windows Defender

- 3. Download the malware
- 4. Download 7-zip
- 5. Perform VirusTotal analysis
- 6. Perform hash, IP information, and graph analysis

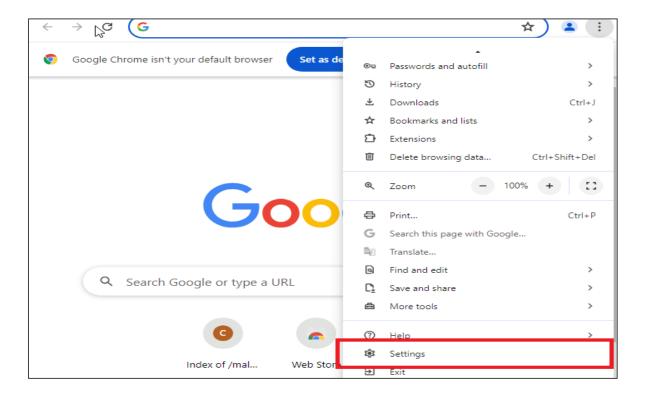
## **Step 1: Disable the Google Chrome security settings**

1.1 Open the Google Chrome browser, go to the 3 dots in the right corner, and click on it



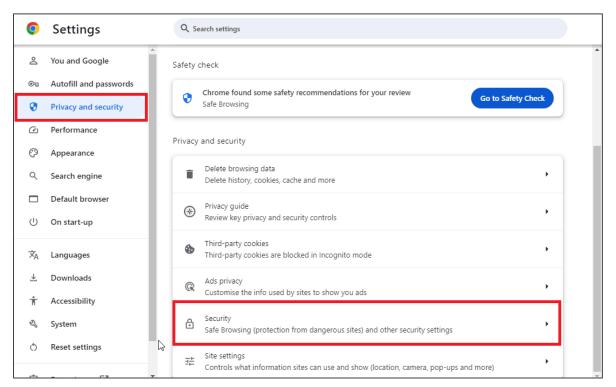


# 1.2 Click on the **Settings** option

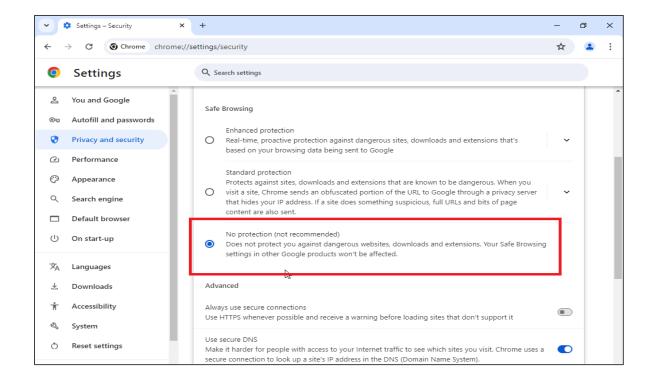




#### 1.3 Select Privacy and security and click on Security

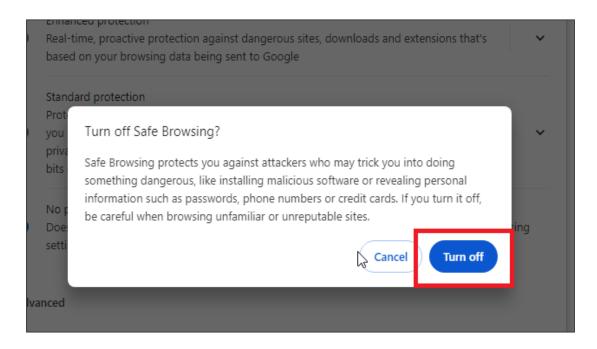


#### 1.4 Select the No protection (not recommended) option



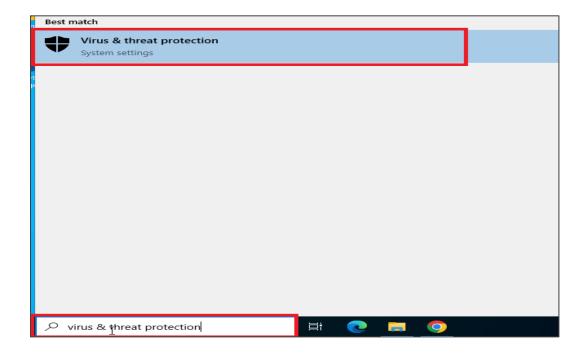


1.5 Click on the Turn off button when prompted



# **Step 2: Disable the Windows Defender**

2.1 Search for Virus & threat protection in the Windows search box and open it





2.2 Go to the Manage settings option in the Virus & threat protection window



2.3 Turn off Real-time protection and other relevant settings





## Step 3: Download the malware

3.1 Visit http://honeypot.cloudbaba.in/malware, click on any malware link to download it, and then click Keep to confirm the download



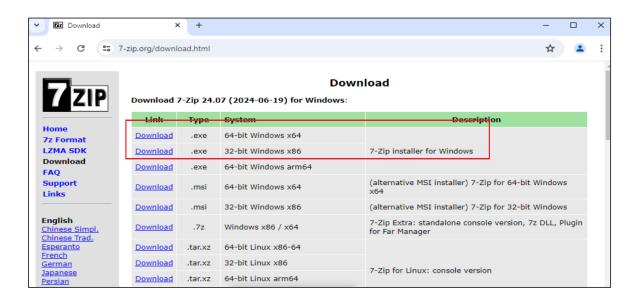
3.2 Click on Download insecure file



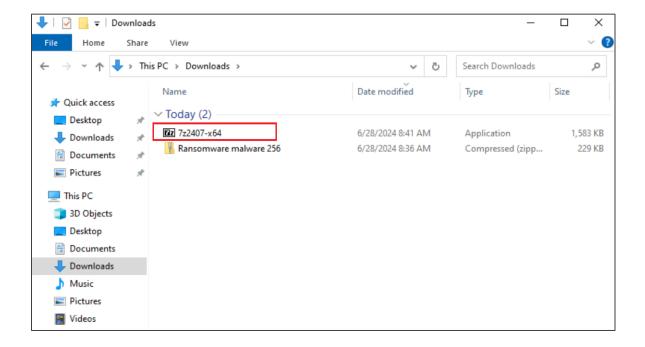


### Step 4: Download 7-zip

4.1 Download **7-zip** using the link given below to extract the downloaded malware sample: https://www.7-zip.org/download.html

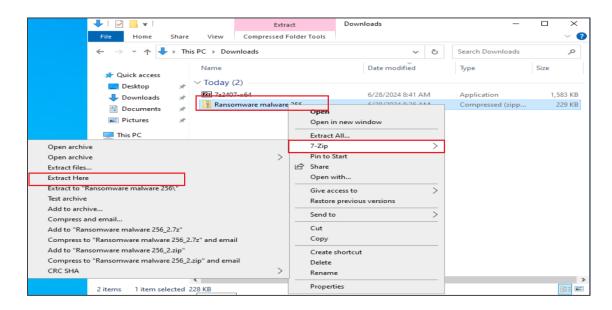


4.2 Go to the Downloads folder and double-click on the 7-zip exe file to install it

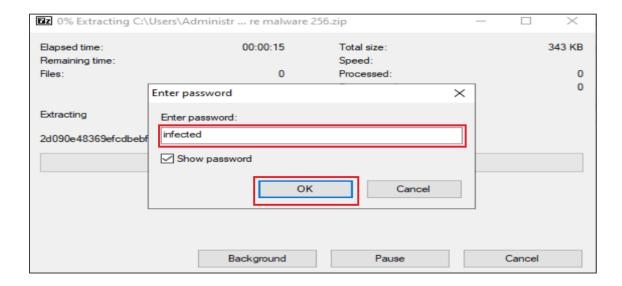




4.3 Right-click on the downloaded malware sample, select **7-zip**, and click **Extract Here** 



4.4 Enter the password as infected and click on OK to extract the file





# **Step 5: Perform VirusTotal analysis**

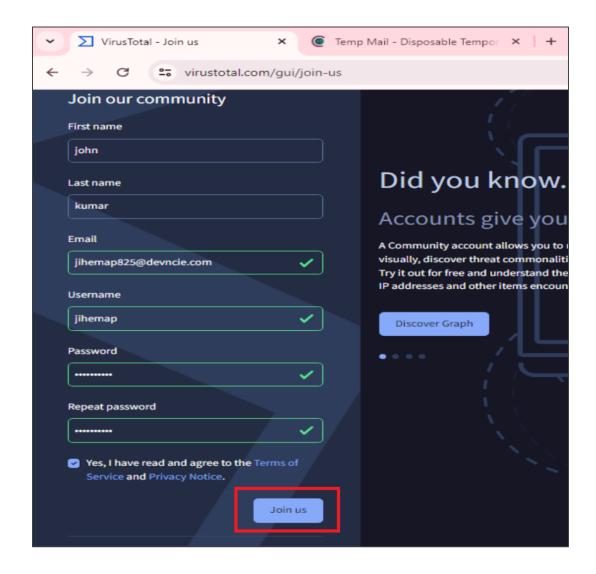
5.1 Visit the link given below to open the **VirusTotal** application and click on the **Sign up** button:

https://www.virustotal.com/gui/home/upload



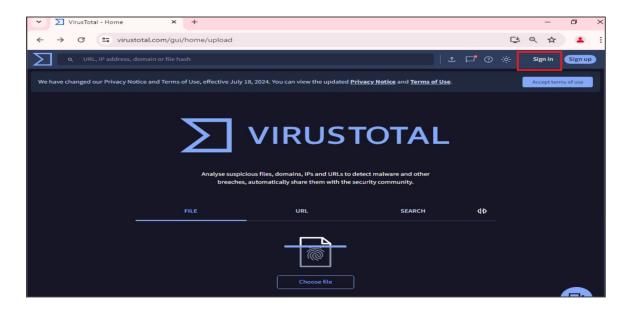


#### 5.2 Fill in the details and click on Join us

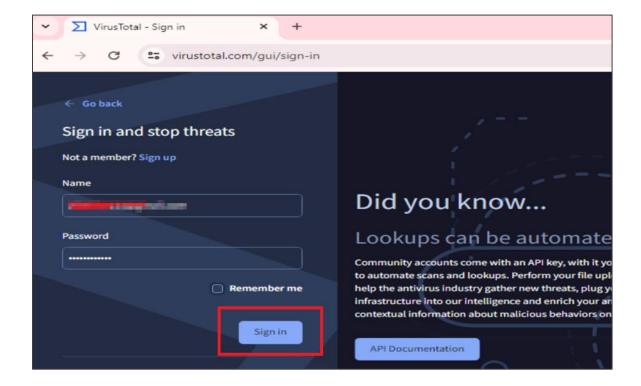




5.3 Click on Sign in after verifying your email ID



5.4 Enter the email address and password and click on Sign in





5.5 Under the **FILE** option, click on **Choose File** to upload the extracted file for malware analysis



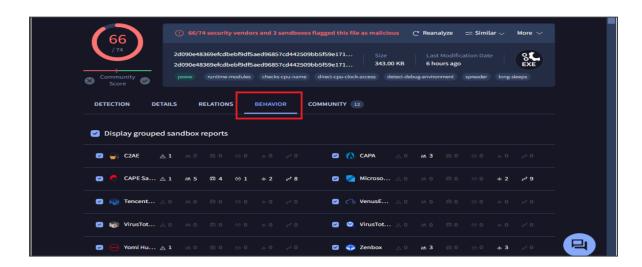
It can be observed that the malware sample was scanned by 74 antivirus engines, with 66 detecting it as malicious. This number is expected to increase over time.





# Step 6: Perform hash, IP information, and graph analysis

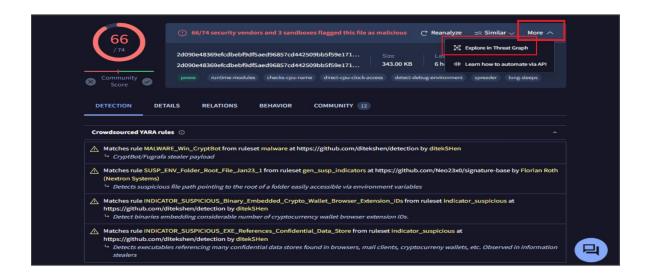
6.1 Click on the **BEHAVIOR** tab and scroll down to view the details about the IP traffic and hashes







### 6.2 Select the More option and choose Explore in Threat Graph



The graph is available for analysis.





6.3 Select **View** and then select **Label Ip Address Identifiers** to see the IP address of the given country



You can also see the individual IP address.





Individual information about each IP address can be found by hovering the cursor over it.



Following the above steps, you have successfully performed a comprehensive malware analysis using VirusTotal, hash, IP information, and graph visualization to understand the malware's behavior and network relationships.