

Official incident report

Event ID: 153

Rule Name: SOC202 - FakeGPT Malicious Chrome Extension

Made By

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Table of contents

Official incident report	1
Event ID: 153	1
Rule Name: SOC202 - FakeGPT Malicious Chrome Extension	1
Table of contents	2
Event Details	3
Network Information Details	4
Analysis	5
Log management	5
Security Email	11
Detection	12
Threat intelligence	12
Endpoint Security	14
Conclusion	15

Event Details

Event ID:

153

Trigger Reason:

Suspicious extension added to the browser.

Device Action:

Allowed

Network Information Details

Destination Address:

172.16.17.173 internal

Analysis:

Log Management

We'll proceed by entering the destination IP address and reviewing the results.

Please refer to the attached image for further details regarding the attack.



8 Logs records for the destination IP.

Please refer to the attached image for further details regarding the attack.

We will explain all of them step by step

Log Analysis

• Log1:



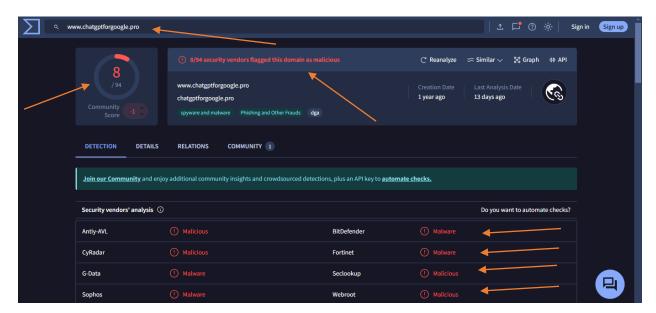
• Source: Sysmon

• Event Type: DNS Query (EventID 22)

• Summary: The user "Samuel" performed a DNS query for the domain www.chatgptforgoogle.pro. The query resolved to three IPv6 addresses: ::ffff:52.76.101.124, ::fffff:3.1.17.18, and ::fffff:18.140.6.45. The query originated from the Chrome browser on the system.

- Key Insight: A DNS resolution for an external domain was made.
 - Checking The Request URL: www.chatgptforgoogle.pro on Virus Total

 Check the attached photo The reference link



• Log2:



- Source: Network Connection
- Summary: A network connection was established from Chrome to the IP address 52.76.101.124 on port 80 (HTTP) corresponding to the domain www.chatgptforgoogle.pro. The time matches the query in Log 1, confirming the user accessed this domain.
- **Key Insight**: The user connected to one of the IP addresses resolved from the DNS query

• Log3:



- **Source**: Network Connection
- Summary: A network connection was made to the IP address 18.140.6.45 on port 80 (HTTP) to the domain www.chatgptgoogle.org. This connection is separate from the previous one, although similar in nature.
- **Key Insight**: The user accessed a different domain, but the IP 18.140.6.45 matches an IP from Log 1, suggesting domain redirection or related services.

• Log4:



• Source: Sysmon

• Event Type: DNS Query (EventID 22)

• Summary: A DNS query for the domain www.chatgptgoogle.org was made, resolving to three IPv6 addresses: ::ffff:18.140.6.45, ::ffff:3.1.17.18, and ::ffff:52.76.101.124. This correlates with Log 3, confirming DNS resolution for this domain.

• **Key Insight**: This DNS query resulted in similar IP addresses, likely indicating related

• Log5:



• **Source**: Sysmon

• Event Type: DNS Query (EventID 22)

• Summary: A DNS query for the domain chrome.google.com was made, resolving to the single IP address::ffff:172.217.17.142. This suggests the user was accessing official Google services through the Chrome browser.

• **Key Insight**: The user accessed a legitimate Google domain.

• Log6:



- **Source**: Network Connection
- Summary: A network connection was established to the IP address 172.217.17.142 (associated with chrome.google.com) over port 80 (HTTP). This corresponds to the DNS query in Log 5.
- **Key Insight**: The user successfully connected to Google's official service.

• Log7:



- Source: Sysmon
- Event Type: DNS Query (EventID 22)
- Summary: A DNS query for the domain version.chatgpt4google.workers.dev was made, resolving to two IP addresses: ::ffff:104.21.63.166 and ::ffff:172.67.147.243. The query was performed by Chrome.
- **Key Insight**: The user accessed another external service related to ChatGPT or Google extensions.

• Log8:



• Source: Sysmon

• Event Type: DNS Query (EventID 22)

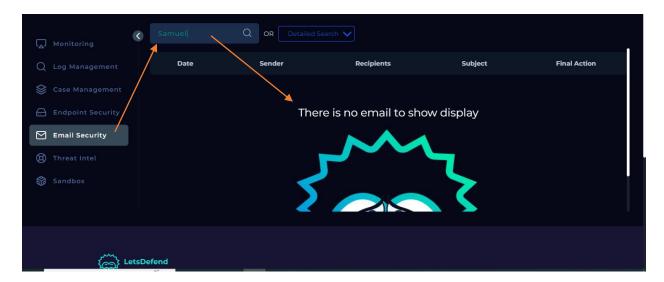
• **Summary**: A similar DNS query for version.chatgpt4google.workers.dev was made, resolving to the same IP addresses as in Log 7, but at a later time.

• Key Insight: The user repeatedly accessed this domain.

Summary for Each Log:

- 1. **Log 1**: DNS query for www.chatgptforgoogle.pro, resolving to multiple IP addresses.
- 2. Log 2: Network connection to 52.76.101.124, one of the IPs from Log 1, over HTTP.
- 3. **Log 3**: Network connection to 18.140.6.45, another resolved IP, associated with www.chatgptgoogle.org.
- 4. **Log 4**: DNS query for www.chatgptgoogle.org, confirming multiple IPs including those from earlier logs.
- 5. Log 5: DNS query for chrome.google.com, resolving to a Google IP address.
- 6. Log 6: Network connection to Google's IP 172.217.17.142, related to Chrome services.
- 7. Log 7: DNS query for version.chatgpt4google.workers.dev, resolving to external IPs.
- 8. Log 8: Repeat DNS query for the same domain as Log 7, indicating continued access.

Email Security:



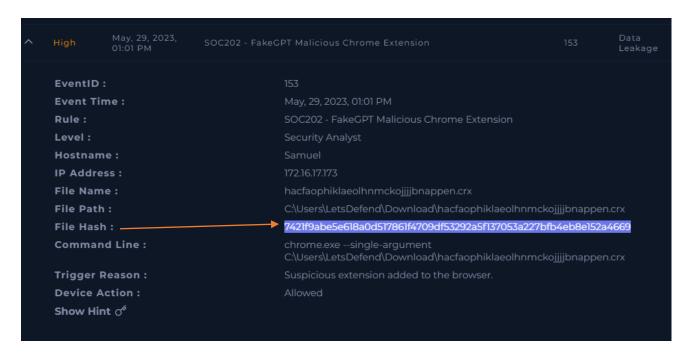
Despite entering the source host name in the email security section, no emails have been sent, indicating that the attack was not executed

Detection:

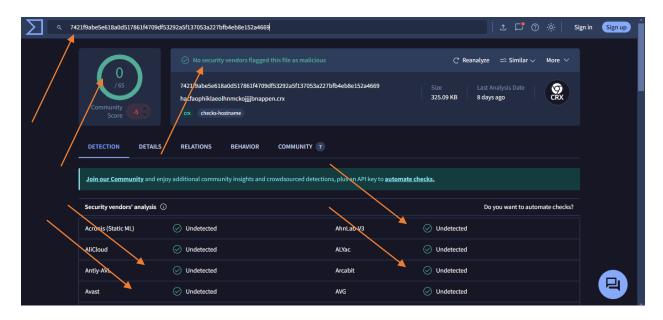
Threat Intelligence Results

File Hash

Check the attached photo



File Hash Analysis on VirusTotal



VirusTotal Analysis:

- File is clean but there are some comments in community section.
- Reference link

Endpoint Security:



We must carefully review the following section, paying particular attention to the processes involved.



• "C:\Program Files\Google\Chrome\Application\chrome.exe":

• This part points to the path of the Google Chrome executable (chrome.exe) on the system.

• --single-argument:

• This is a Chrome command-line switch (or flag) used to run Chrome with a specific argument. It's commonly used for loading specific tasks or files, like extensions.

• C:\Users\LetsDefend\Desktop\hacfaophiklaeolhnmckojjjjbnappen.crx:

- This part refers to a .crx file, which is a Chrome extension package format. The file is located on the desktop of the user named "LetsDefend".
- The .crx file likely contains the code and assets for a Chrome extension, possibly named "hacfaophiklaeolhnmckojjjjbnappen" (likely a hash or identifier of the extension).
- The name "hacfaophiklaeolhnmckojjjjbnappen" looks like a random string, which is common in malware . (the Device must be CONTAINED) AND WE CONTAINED SUCCESSSFULLY.



Conclusion:

Upon thorough investigation of Event ID 153, it has been determined that the device "Samuel" was compromised by a malicious Chrome extension identified as **FakeGPT**. The extension, packaged as hacfaophiklaeolhnmckojjjjbnappen.crx, was silently installed via a command-line operation. The DNS queries and network connections to suspicious domains such as www.chatgptforgoogle.pro and version.chatgpt4google.workers.dev further confirm the presence of malicious behavior.

Although the file hashes initially appeared clean on VirusTotal, community comments raised concerns, signaling the potential for sophisticated or emerging threats not yet flagged by signature-based detection systems.

The attack was mitigated early as no email exfiltration or abnormal browser behavior was detected beyond the unauthorized network connections. The device has since been successfully contained, preventing further spread or damage.

This incident underscores the importance of proactive monitoring and rapid response in identifying and mitigating threats introduced through seemingly benign browser extensions. It also highlights the necessity for enhanced extension vetting and stricter network policies to prevent similar occurrences in the future.

Recommendation:

- Strengthen browser extension policies to restrict unauthorized installations.
- Continuously monitor DNS queries for suspicious external connections.
- Perform a comprehensive review of other endpoints for similar indicators of compromise.

The containment of this device not only neutralized the immediate threat but also serves as a valuable learning opportunity for enhancing our defensive posture against evolving browser-based threats.