

HiveForce Labs

# THREAT ADVISORY

 **ATTACK REPORT**

## Unmasking OtterCookie Malware in the Contagious Interview Campaign

Date of Publication

December 27, 2024

Admiralty Code

A1

TA Number

TA2024474

# Summary

**First Seen:** September 2024

**Targeted Countries:** Worldwide

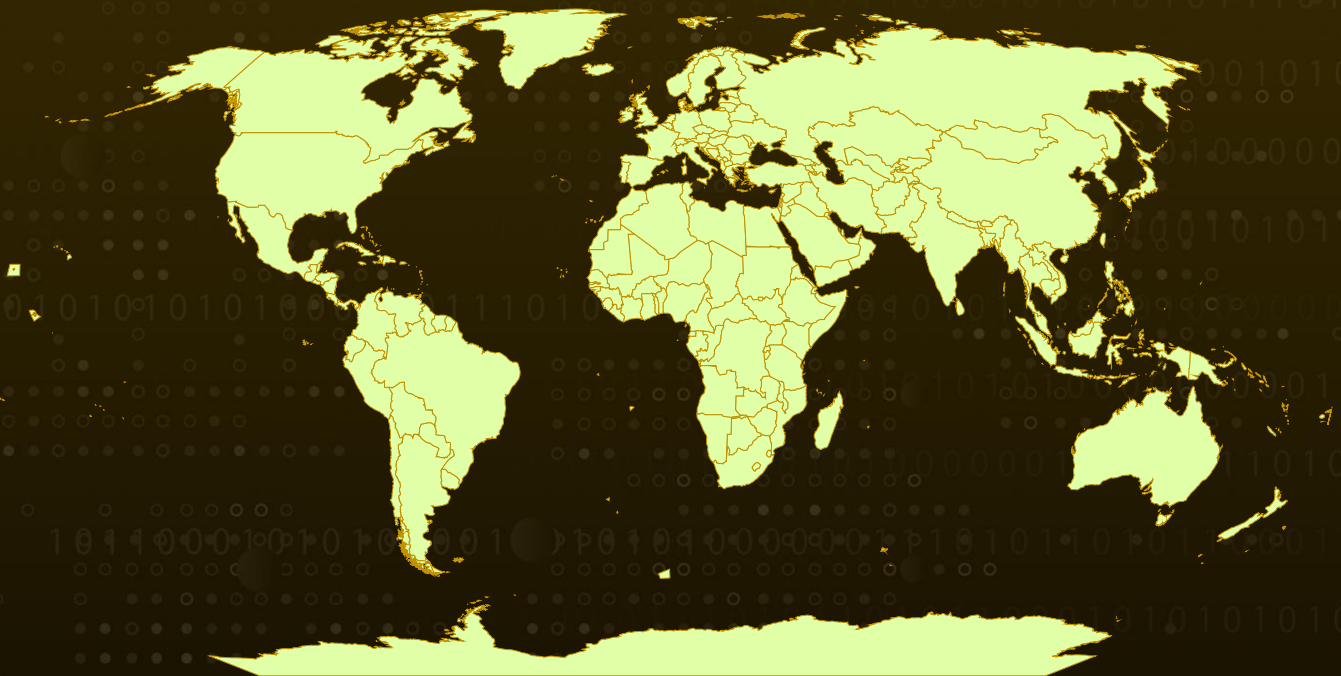
**Malware:** OtterCookie

**Threat Actor:** North Korean Threat Actors

**Targeted Industries:** Finance and Cryptocurrency

**Attack:** A new malware named OtterCookie used in the Contagious Interview attack campaign, which is linked to North Korea. OtterCookie primarily targets financial gains and employs sophisticated techniques like downloading JavaScript code remotely and executing commands via Socket.IO. It can steal sensitive information, including cryptocurrency wallet keys, and clipboard data. Observations suggest it has evolved since September 2024, adding features for remote command execution and data theft, posing a significant threat to financial security.

## Attack Regions



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# Attack Details

## #1

A new malware called OtterCookie, which is used in the [Contagious Interview](#) attack campaign. This malware has been linked to North Korean cybercriminal groups and primarily focuses on financial theft, particularly targeting cryptocurrency assets.

## #2

OtterCookie employs advanced techniques to compromise victims, including remotely downloading and executing JavaScript code, enabling attackers to dynamically control and expand its functionalities. It represents a significant threat due to its adaptability and focus on stealing sensitive financial data.

## #3

One of OtterCookie's key features is its use of Socket.IO, a WebSocket-based communication protocol, to establish persistent connections with its command-and-control (C2) servers. This allows it to receive commands in real time, making it highly responsive and capable of performing dynamic actions.

## #4

It can harvest information such as clipboard data, cookies, and cryptocurrency wallet keys, posing a severe risk to individual and organizational security. These features make the malware particularly dangerous for businesses handling financial transactions and sensitive data.

## #5

The malware has undergone rapid development since its initial detection in September 2024, with new capabilities being added over time. Its evolving nature suggests that the attackers are actively refining their methods to bypass traditional security defenses. For example, OtterCookie now supports remote command execution, enabling attackers to install additional malicious code or exfiltrate data as needed. This adaptability highlights the need for organizations to stay updated with their cybersecurity measures.

## #6

Given its sophisticated architecture and evolving threat profile, OtterCookie demonstrates the increasing sophistication of financially motivated cyberattacks.

# Recommendations



**Enhance Endpoint Protection:** Deploy advanced endpoint detection and response (EDR) solutions to identify and block suspicious activities. Utilize behavior-based detection mechanisms to recognize anomalies related to malware execution, such as unauthorized script downloads or command-and-control (C2) communications. Ensure that antivirus and anti-malware tools are updated regularly to detect the latest threats.



**Implement Network Monitoring and Filtering:** Monitor network traffic for unusual patterns, including unauthorized WebSocket connections and data exfiltration attempts. Configure firewalls to block malicious IP addresses and domains associated with OtterCookie's C2 infrastructure. Employ DNS filtering to prevent access to known malicious sites and utilize intrusion detection systems (IDS) for early alerts.



**Update and Patch Systems Regularly:** Keep operating systems, browsers, and software updated with the latest security patches. Vulnerabilities in outdated software are often exploited by malware to gain access, so automated patch management tools can ensure systems remain secure against evolving threats.



**Strengthen Email and Web Security:** As phishing emails and malicious websites are common infection vectors, deploy email security gateways to filter out phishing attempts. Enable web filtering to block malicious URLs and enforce safe browsing practices. Train employees to recognize phishing attempts and avoid clicking suspicious links or downloading unverified attachments.



**Implement Multi-Factor Authentication (MFA):** Enable MFA across all critical systems and user accounts to add an additional layer of security. Even if credentials are compromised, MFA can prevent unauthorized access, reducing the risk of data breaches and malware deployment.

## Potential **MITRE ATT&CK** TTPs

<b><u>TA0005</u></b> Defense Evasion	<b><u>TA0010</u></b> Exfiltration	<b><u>TA0001</u></b> Initial Access	<b><u>TA0002</u></b> Execution
<b><u>TA0007</u></b> Discovery	<b><u>TA0003</u></b> Persistence	<b><u>TA0009</u></b> Collection	<b><u>TA0011</u></b> Command and Control
<b><u>TA0008</u></b> Lateral Movement	<b><u>TA0040</u></b> Impact	<b><u>T1041</u></b> Exfiltration Over C2 Channel	<b><u>T1027</u></b> Obfuscated Files or Information
<b><u>T1059.007</u></b> JavaScript	<b><u>T1059</u></b> Command and Scripting Interpreter	<b><u>T1082</u></b> System Information Discovery	<b><u>T1496</u></b> Resource Hijacking
<b><u>T1115</u></b> Clipboard Data	<b><u>T1021</u></b> Remote Services	<b><u>T1204</u></b> User Execution	<b><u>T1204.002</u></b> Malicious File

## Indicators of Compromise (IOCs)

TYPE	VALUE
<b>SHA256</b>	d19ac8533ab14d97f4150973ffa810e987dea853bb85edffb7c2fcef13ad2106, 7846a0a0aa90871f0503c430cc03488194ea7840196b3f7c9404e0a536dbb15e, 4e0034e2bd5a30db795b73991ab659bda6781af2a52297ad61cae8e14bf05f79, 32257fb11cc33e794dfd0f952158a84b4475d46f531d4bee06746d15caf8236
<b>Domains</b>	zkservice[.]cloud, w3capi[.]marketing, payloadrpc[.]com
<b>IPv4</b>	45[.]159[.]248[.]55

## References

[https://jp.security.ntt/tech\\_blog/contagious-interview-ottercookie](https://jp.security.ntt/tech_blog/contagious-interview-ottercookie)

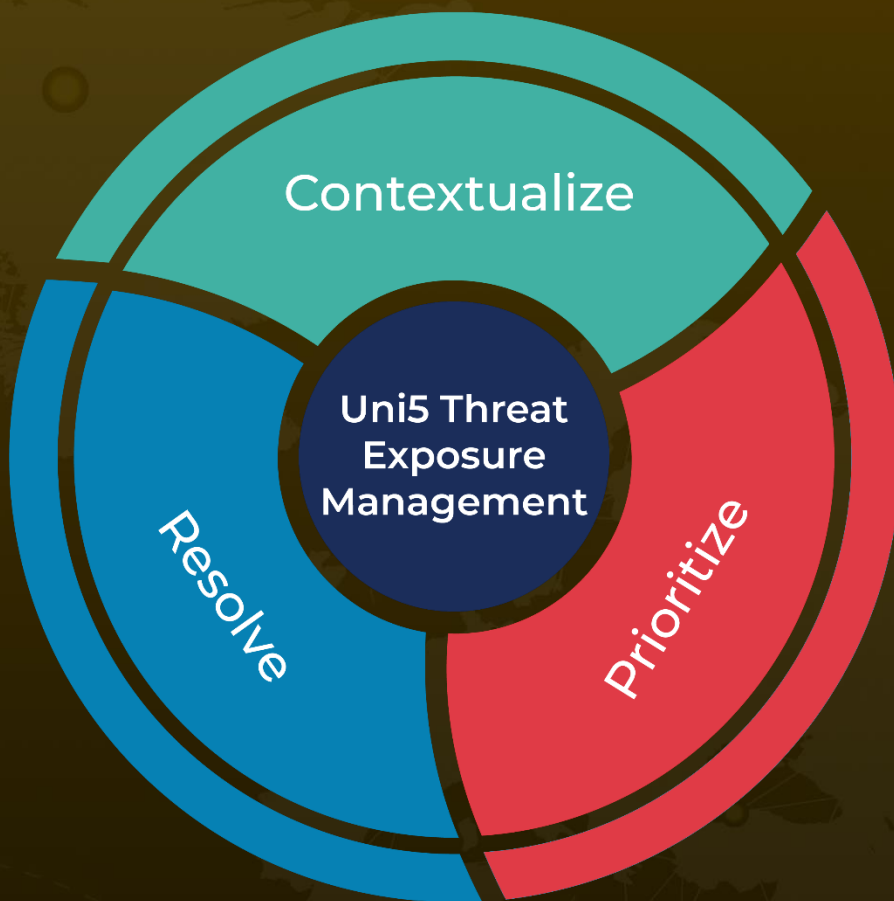
<https://unit42.paloaltonetworks.com/two-campaigns-by-north-korea-bad-actors-target-job-hunters/>

<https://hivepro.com/threat-advisory/north-korean-hackers-go-after-remote-job-openings/>

# What Next?

At **Hive Pro**, it is our mission to detect the most likely threats to your organization and to help you prevent them from happening.

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