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HiveForce Labs

WEEKLY

THREAT DIGEST

Attacks, Vulnerabilities and Actors

28 AUGUST to 3 SEPTEMBER 2023

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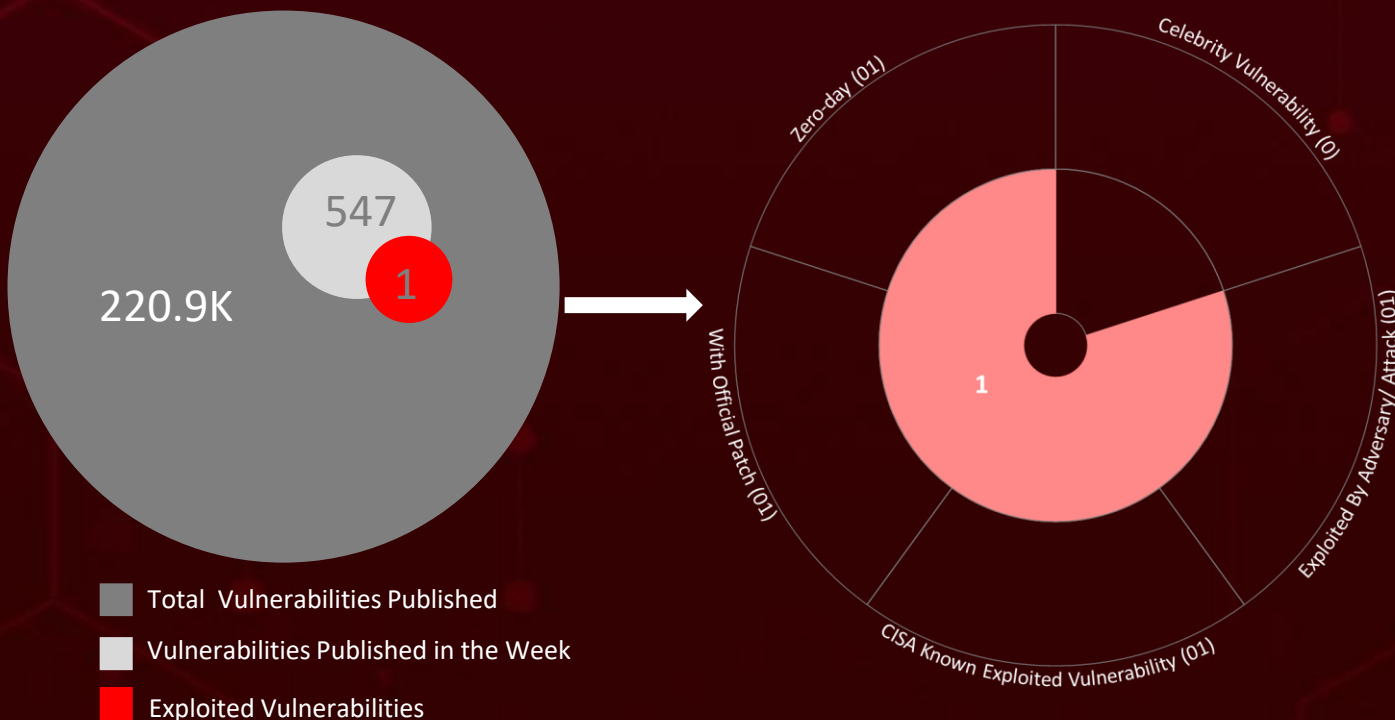
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Summary

HiveForce Labs recently made several significant discoveries related to cybersecurity threats. Over the past week, the fact that there were a total of **six** attacks executed, **one** vulnerability, and **two** different adversaries highlights the ever-present danger of cyber attacks.

Moreover, HiveForce Labs discovered that the **Barracuda zero-day** vulnerability was exploited by the **UNC4841** threat actor, playing a pivotal role in their extensive global espionage campaign. Additionally, identified **Trash Panda** a ransomware strain that specifically targets Windows platforms in the United States and the Czech Republic.

In the meantime, a Chinese nation-state activity group known as **Flax Typhoon** is engaging in espionage against organizations in Taiwan. These attacks are on the rise, posing a significant threat to users worldwide.



High Level Statistics

6

Attacks
Executed

1

Vulnerabilities
Exploited

2

Adversaries in
Action

- [Agniane Stealer](#)
- [Trash Panda Ransomware](#)
- [DEPTHCHARGE](#)
- [SKIPJACK](#)
- [FOXTROT](#)
- [FOXGLOVE](#)
- [CVE-2023-2868](#)
- [Flax Typhoon](#)
- [UNC4841](#)



Insights

Crypto Heist

Alert:

AgnianeStealer, the Silent Predator of Cryptocurrency Wallets

Trash Panda Ransomware:

Disseminating Ransom Notes with Political Messages While Targeting the United States and Czech Republic

UNC4841's Tactical Arsenal

Deploys an array of Malware Mayhem to yield Persistence.

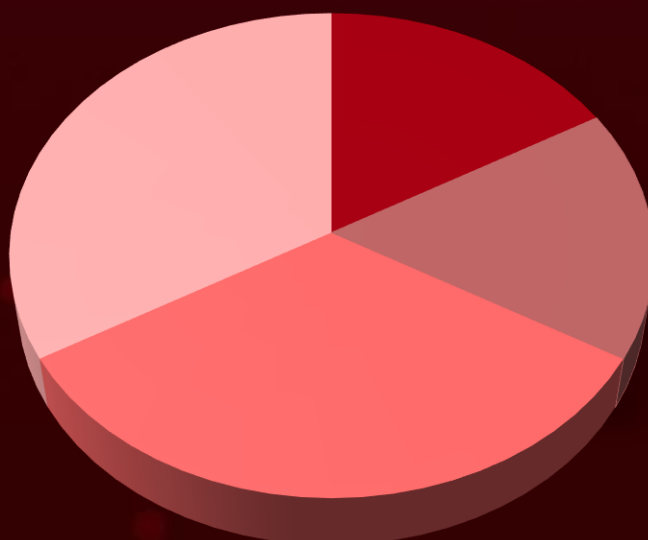
UNC4841: Spearheading Global Espionage with Barracuda ESG Exploits

Global Cyber Hotspots: United States, Thailand, and Mexico Top the List of Targets Last Week

Flax Typhoon

A Stealthy Chinese Espionage Threat in Taiwan

Threat Distribution



■ Ransomware ■ Stealer ■ Backdoor ■ Trojan

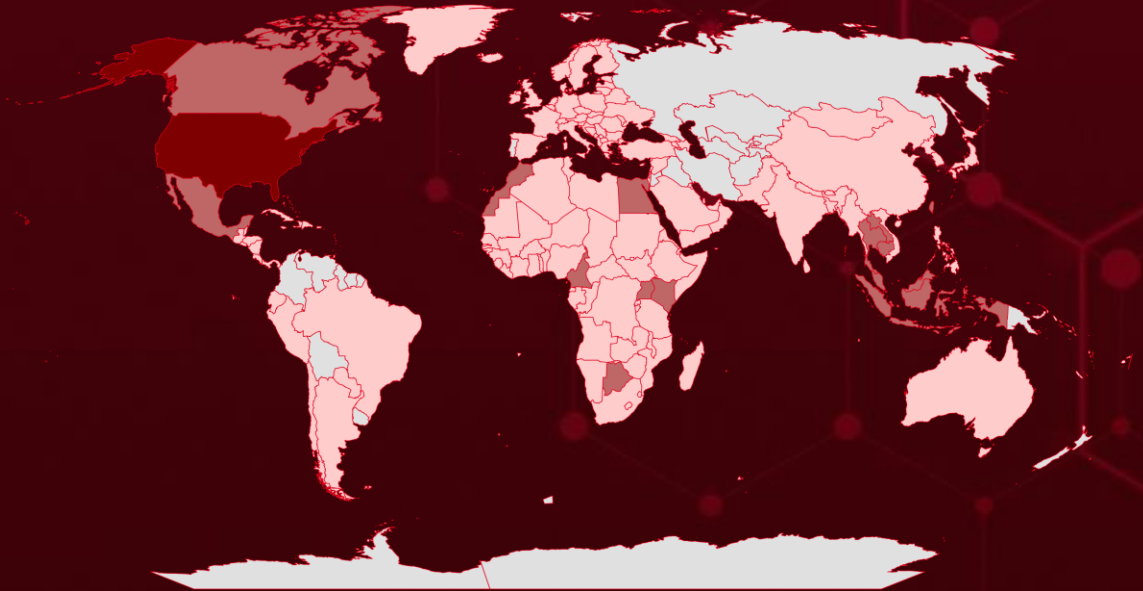


Targeted Countries

Most



Least



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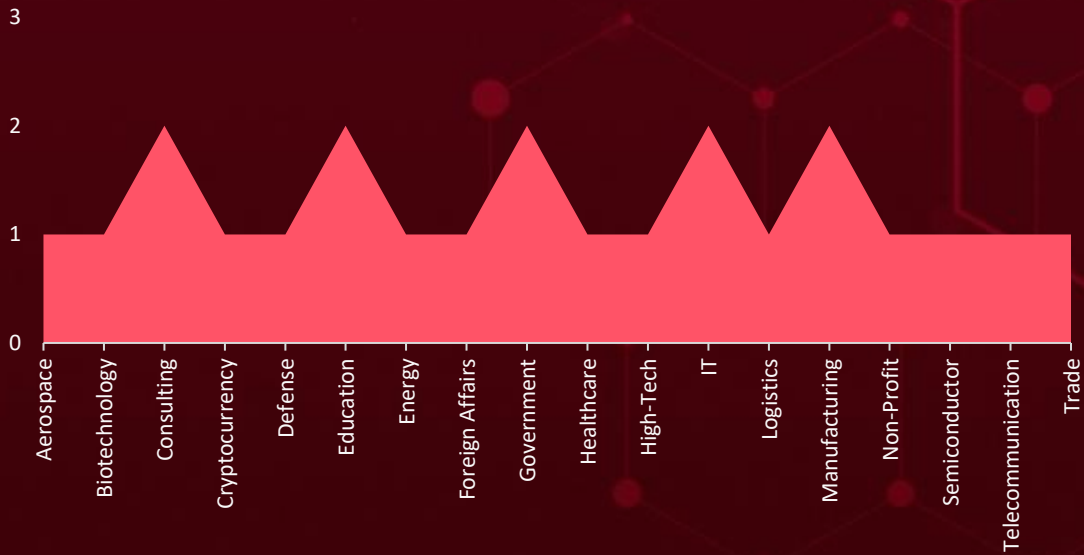
Countries
United States
Thailand
Mexico
Western Sahara
Brunei
Singapore
Cambodia
Kenya
Cameroon
Malaysia
Canada
Morocco
East Timor
Taiwan
Egypt
Botswana
Uganda
Indonesia
Laos
Saint Vincent and the Grenadines
Montenegro
United Arab Emirates
Bermuda
Palestine
Bhutan
Spain

Countries
Bosnia and Herzegovina
Malta
Algeria
Nicaragua
Brazil
Republic of the Congo
British Virgin Islands
Bangladesh
Andorra
Belarus
Bulgaria
Malawi
Burkina Faso
Bahamas
Burundi
Myanmar
Angola
North Macedonia
Anguilla
Philippines
Antigua and Barbuda
Saint Kitts and Nevis
Cape Verde
Senegal
Caribbean
Netherlands

Countries
Somalia
Cayman Islands
Switzerland
Central African Republic
Turkey
Chad
Vatican City
Chile
Maldives
China
Mauritania
Comoros
Monaco
Costa Rica
Bahrain
Croatia
Nepal
Cuba
Nigeria
Curaçao
Oman
Cyprus
Paraguay
Czech Republic
Puerto Rico
Czechia
Rwanda
Denmark

Countries
Saint Martin
Djibouti
São Tomé and Príncipe
Dominica
Seychelles
Dominican Republic
Slovakia
DR Congo
South Korea
Argentina
Sudan
Ecuador
Barbados
Armenia
Trinidad and Tobago
El Salvador
Belgium
Equatorial Guinea
Belize
Eritrea
Benin
Estonia
Azerbaijan
Eswatini
Mali
Ethiopia
Martinique
Finland

Targeted Industries



TOP MITRE ATT&CK TTPs

T1036

Masquerading

T1059

Command and Scripting Interpreter

T1105

Ingress Tool Transfer

T1543

Create or Modify System Process

T1003

OS Credential Dumping

T1071

Application Layer Protocol

T1082

System Information Discovery

T1005

Data from Local System

T1486

Data Encrypted for Impact

T1190

Exploit Public-Facing Application

T1036.005

Match Legitimate Name or Location

T1027.002

Software Packing

T1041

Exfiltration Over C2 Channel

T1027

Obfuscated Files or Information

T1047

Windows Management Instrumentation

T1212

Exploitation for Credential Access

T1055

Process Injection

T1505

Server Software Component

T1056

Input Capture

T1543.004

Launch Daemon

🔪 Attacks Executed

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Agniane Stealer</u>	The AgnianeStealer, coded in C#, operates as an information pilferer. It primarily focuses on extracting stored credentials from a wide array of sources, with a specific emphasis on targeting cryptocurrency extensions and wallets.	Phishing emails	-
TYPE		IMPACT	AFFECTED PRODUCTS
Stealer		Credential theft	-
ASSOCIATED ACTOR			PATCH LINKS
-			-
IOC TYPE	VALUE		
Host Name	Central-cee-doja[.]ru		
MD5	522101881b87ccda4d78fac30e951d19, 0d20e90382f881116201ac7c9298aab6, a1b5e20b58d23b26f640f252ece0891b, 5c0f65523f7ecb773c599b59d5cc3578, a2b20120a92c3de445b0b384a494ed39, d811a57bc0e8b86b449277f9ffb50cc9, b62ef0920a545f547d6cd3cd2abd60d2		

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Trash Panda Ransomware</u>	Trash Panda is a ransomware that encrypts files on Windows machines, replaces the desktop wallpaper, and drops a ransom note with political messages. It adds a '.monochrome' extension to the encrypted files and demands payment for decryption.	Phishing emails	-
TYPE		IMPACT	AFFECTED PRODUCTS
Ransomware		Data Theft	Windows
ASSOCIATED ACTOR			PATCH LINK
-			-
IOC TYPE	VALUE		
SHA256	ce5cf3b964e636d546bf2c52423296bda06b7fe47e6f8a757f165a3be93c88db		
SHA1	d5d37ae269008e9bfddc171c3b05bd3d43a5cd4d		
MD5	a0fea954561663f60059420e6c78fa5c		

The IOCs (Indicators of Compromise) for the attacks executed are listed in the appendix section at the end of the report.

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>DEPTHCHARGE</u> (aka <u>SUBMARINE</u>)	UNC4841 employed the backdoor DEPTHCHARGE to sustain persistence. DEPTHCHARGE passively listens for encrypted commands, which it decrypts with OpenSSL and performs before delivering the results back to the command and control (C2) server disguised as SMTP commands.	Exploitation of CVE-2023-2868	CVE-2023-2868
TYPE		IMPACT	AFFECTED PRODUCTS
Backdoor		Data Theft and Espionage	Barracuda Networks Email Security Gateway (ESG) Appliance
ASSOCIATED ACTOR			PATCH LINKS
UNC4841			https://status.barracuda.com/incidents/34kx82j5n4q9
IOC TYPE	VALUE		
MD5	c5c93ba36e079892c1123fe9dff660f, dde2d3347b76070fff14f6c0412f95ba, 03e07c538a5e0e7906af803a83c97a1e, 0dd78b785e7657999d05d52a64b4c4cf		

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>SKIPJACK</u>	SKIPJACK is a backdoor trojan that was used by the Chinese nexus threat group UNC4841. It is a modular malware that can be customized to perform a variety of tasks. It's delivered via phishing emails or exploit kits. Once it is installed on a system, it can be used to steal sensitive information.	Exploitation of CVE-2023-2868	CVE-2023-2868
TYPE		IMPACT	AFFECTED PRODUCTS
Backdoor		Data Theft and Espionage	Barracuda Networks Email Security Gateway (ESG) Appliance
ASSOCIATED ACTOR			PATCH LINKS
UNC4841			https://status.barracuda.com/incidents/34kx82j5n4q9
IOC TYPE	VALUE		
MD5	d81263e6872cc805e6cf4ca05d86df4e, ad1dc51a66201689d442499f70b78dea, 3273a29d15334efddd8276af53c317fb, 446f3d71591afa37bbd604e2e400ae8b, 87847445f9524671022d70f2a812728f, 9aa90d767ba0a3f057653aadcb75e579		




The IOCs (Indicators of Compromise) for the attacks executed are listed in the appendix section at the end of the report.

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>FOXTROT</u>	<p>FOXTROT is a malware family that has been used by the Chinese-nexus threat group UNC4841. It is a C++ implant that is launched using a C-based program dubbed FOXGLOVE. Communicating via TCP, it comes with features to capture keystrokes, run shell commands, transfer files, and set up a reverse shell.</p>	Exploitation of CVE-2023-2868	CVE-2023-2868
TYPE		IMPACT	AFFECTED PRODUCTS
Trojan		Data Theft and Espionage	Barracuda Networks Email Security Gateway (ESG) Appliance
ASSOCIATED ACTOR			PATCH LINKS
UNC4841			https://status.barracuda.com/incidents/34kx82j5n4q9
IOC TYPE	VALUE		
MD5	a28de396aa91b7faca35e861b634c502		


NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>FOXGLOVE</u>	<p>FOXGLOVE is a malware family that has been used by the Chinese-nexus threat group UNC4841. It is a modular malware that can be customized to perform a variety of tasks.</p>	Exploitation of CVE-2023-2868	CVE-2023-2868
TYPE		IMPACT	AFFECTED PRODUCTS
Trojan		Data Theft and Espionage	Barracuda Networks Email Security Gateway (ESG) Appliance
ASSOCIATED ACTOR			PATCH LINKS
UNC4841			https://status.barracuda.com/incidents/34kx82j5n4q9

The IOCs (Indicators of Compromise) for the attacks executed are listed in the appendix section at the end of the report.

Vulnerabilities Exploited


CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2023-2868		Barracuda Networks Email Security Gateway (ESG): 5.1.3 -9.2	UNC4841
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSO MWARE
NAME	CISA KEV	cpe:2.3:o:barracuda:email_security_gateway_firmwa re:*:*:*:*:*:*:*	DEPTHCHARGE (aka SUBMARINE), SKIPJACK, FOXTROT, and FOXGLOVE
Barracuda Networks ESG Appliance Improper Input Validation Vulnerability		cpe:2.3:h:barracuda:email_security_gateway:-:*:*:*:*:*:*	
	CWE ID	ASSOCIATED TTPs	PATCH DETAILS
	CWE-20 CWE-77	T1059: Command and Scripting Interpreter	https://status.barracuda.com/incidents/34kx82j5n4g9

Adversaries in Action

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 Flax Typhoon	China	Government agencies, Education, Critical Manufacturing, and Information Technology Organizations	Taiwan, Southeast Asia, North America and Africa
	MOTIVE		
	Espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	-	-	-

TTPs

T1190: Exploit Public-Facing Application; T1505.003: Web Shell; T1505: Server Software Component; T1059: Command and Scripting Interpreter; T1546: Event Triggered Execution; T1546.008: Accessibility Features; T1105: Ingress Tool Transfer; T1543: Create or Modify System Process; T1543.003: Windows Service; T1003.001: LSASS Memory; T1550: Use Alternate Authentication Material; T1003: OS Credential Dumping; T1036: Masquerading; T1036.005: Match Legitimate Name or Location; T1003.002: Security Account Manager; T1572: Protocol Tunneling; T1550.002: Pass the Hash

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 UNC4841	China	Government, High-Tech, IT, Healthcare, Biotechnology, Telecommunication, Defense, Aerospace, Education, Consulting and Professional Services, Trade, Semiconductor, Energy, Non-Profit, Logistics, Manufacturing, Foreign Affairs	Parts of Europe, Asia, South Africa, Australia, and the USA
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	CVE-2023-2868	DEPTHCHARGE (aka SUBMARINE), SKIPJACK, FOXTROT, and FOXGLOVE	Barracuda Networks Email Security Gateway (ESG) Appliance

TTPs

T1543: Create or Modify System Process; T1543.004: Launch Daemon; T1574: Hijack Execution Flow; T1068: Exploitation for Privilege Escalation; T1055: Process Injection; T1211: Exploitation for Defense Evasion; T1059: Command and Scripting Interpreter; T1212: Exploitation for Credential Access; T1056: Input Capture; T1056.001: Keylogging; T1560 Archive Collected Data T1005 Data from Local System I; T1132: Data Encoding; T1105: Ingress Tool Transfer; T1588.006: Vulnerabilities;

Recommendations

Security Teams

This digest can be utilized as a drive to force security teams to prioritize the **one exploited vulnerability** and block the indicators related to the threat actors **Flax Typhoon, UNC4841**, and malware **Agniane Stealer, Trash Panda Ransomware, Depthcharge, Skipjack, Foxtrot, Foxglove**.

Uni5 Users

This is an actionable threat digest for HivePro Uni5 customers and they can get comprehensive insights into their threat exposure and can action it effortlessly over the HivePro Uni5 dashboard by

- Running a Scan to discover the assets impacted by the **one exploited vulnerability**.
- Testing the efficacy of their security controls by simulating the attacks related to the threat actor **Flax Typhoon, UNC4841** and malware **Agniane Stealer, Trash Panda Ransomware, Depthcharge, Skipjack, Foxtrot, Foxglove** in Breach and Attack Simulation(BAS).



Threat Advisories

[Chinese Hacking Group 'Flax Typhoon' Targeting Taiwan Organizations](#)

[Agniane Stealer's Cryptocurrency Quest](#)

[Unveiling New Windows Ransomware Named Trash Panda](#)

[Chinese Hacking Group Exploits Barracuda Zero-Day](#)

[A Critical Vulnerability uncovered in VMware Aria Operations for Networks](#)

Appendix

Known Exploited Vulnerabilities (KEV): Software vulnerabilities for which there are public exploits or proof-of-concept (PoC) code available, and for which there is a high risk of potential harm to an organization's systems or data if left unaddressed.

Celebrity Vulnerabilities: Software vulnerabilities that have gained significant attention and been branded with catchy names and logos due to their impact on high-profile individuals and celebrities are also referred to as Celebrity Publicized Software Flaws.

✂ Indicators of Compromise (IOCs)

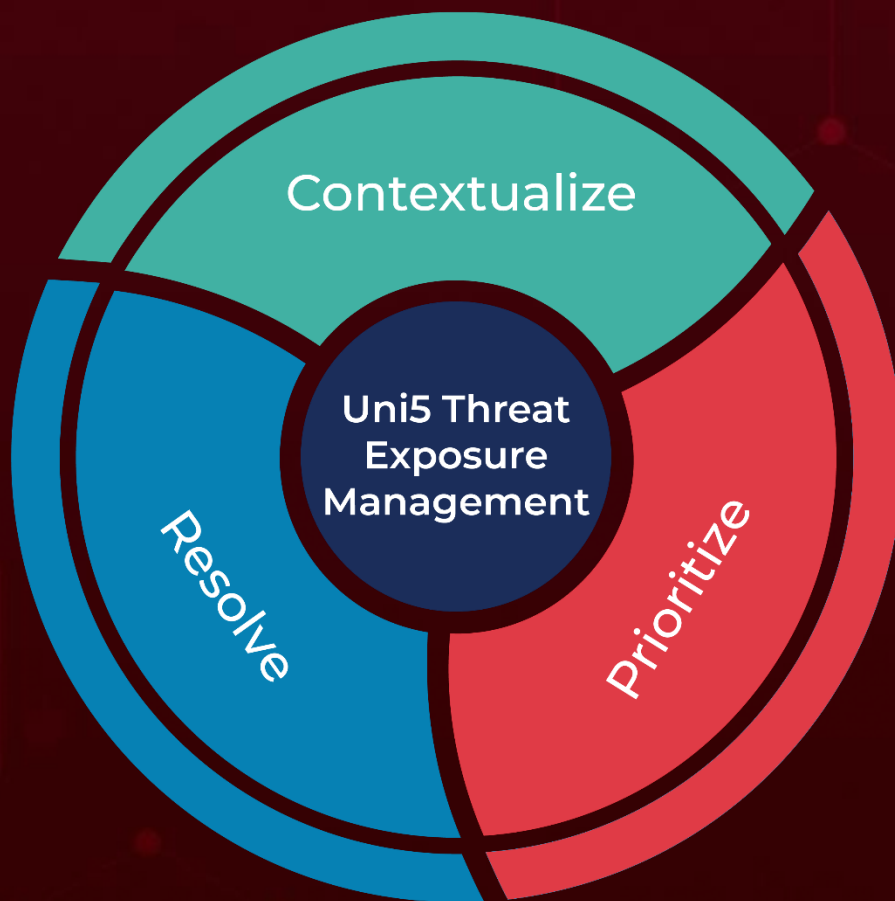
Attack Name	TYPE	VALUE
<u>Agniane Stealer</u>	Host Name	Central-cee-doja[.]ru
	MD5	522101881b87ccda4d78fac30e951d19, 0d20e90382f881116201ac7c9298aab6, a1b5e20b58d23b26f640f252ece0891b, 5c0f65523f7ecb773c599b59d5cc3578, a2b20120a92c3de445b0b384a494ed39, d811a57bc0e8b86b449277f9ffb50cc9, b62ef0920a545f547d6cd3cd2abd60d2
	SHA256	b5f11e9a19a7972bb65d5c46664a7f7594a946b3bdd9760697fd39f6d607b557, 560017cc0ca317e8c6437ed46a417e782f02a860f917d6fa682bca26158d1cf0, 24bd790bc9427021121ec0e318db93369c2d893e40309f7083f178d3a5819161
	SHA1	f82093aa3c483dca6ace0f5c8dec104800b8d494, cdab34eea2dfd5e96412e34c0b3eb090a9661377, 3830039ada6bb8d3050dc7748d77bcb7b0cc003f
<u>Trash Panda Ransomware</u>	SHA256	ce5cf3b964e636d546bf2c52423296bda06b7fe47e6f8a757f165a3be93c88db
	SHA1	d5d37ae269008e9bfddc171c3b05bd3d43a5cd4d
	MD5	a0fea954561663f60059420e6c78fa5c
<u>DEPTHCHARGE</u>	MD5	c5c93ba36e079892c1123fe9dff660f, dde2d3347b76070fff14f6c0412f95ba, 03e07c538a5e0e7906af803a83c97a1e,

Attack Name	TYPE	VALUE
<u>DEPTHCHARGE</u>	MD5	0dd78b785e7657999d05d52a64b4c4cf, 35a432e40da597c7ab63ff16b09d19d8, 806250c466824a027e3e85461dc672db, 830fca78440780aef448c862eee2a8ac, b354111afc9c6c26c1475e761d347144, b745626b36b841ed03eddfb08e6bb061, b860198fec7398bc79a8ec69afc65ed, c2e577c71d591999ad5c581e49343093, e68cd991777118d76e7bce163d8a2bc1, ed648c366b6e564fc636c072bbcac907, ff005f1ff98ec1cd678785baa0386bd1
<u>SKIPJACK</u>	MD5	d81263e6872cc805e6cf4ca05d86df4e, ad1dc51a66201689d442499f70b78dea, 3273a29d15334efddd8276af53c317fb, 446f3d71591afa37bbd604e2e400ae8b, 87847445f9524671022d70f2a812728f, 9aa90d767ba0a3f057653aadcb75e579, e4e86c273a2b67a605f5d4686783e0cc, ec0d46b2aa7adfdff10a671a77aeb2ae
<u>FOXTROT</u>	MD5	a28de396aa91b7faca35e861b634c502

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.

Book a free demo with HivePro Uni5:Threat Exposure Management Platform.



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