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HiveForce Labs

WEEKLY

THREAT DIGEST

Attacks, Vulnerabilities and Actors

26 JUNE to 2 JULY 2023

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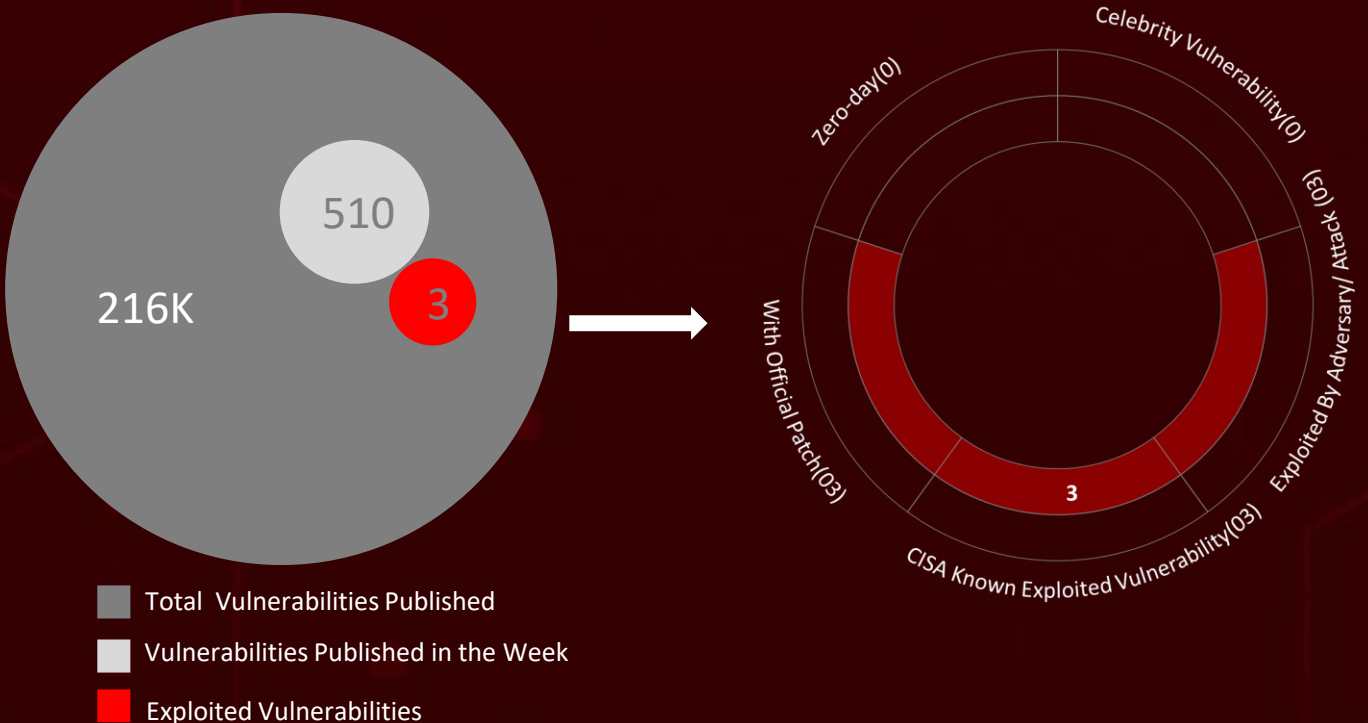
Summary

HiveForce Labs recently made several significant discoveries related to cybersecurity threats. Over the past week, the fact that there were a total of **four** attacks executed, taking advantage of **three** different vulnerabilities in various systems, and involving **two** different adversaries highlights the ever-present danger of cyber attacks.

HiveForce Labs also highlighted repojacking vulnerabilities possible with millions of github repositories, notably no of these repos are related with big tech giant. A critical Remote Code Execution vulnerability with CVSS score of 9.6 was also discovered in FortiNAC.

Moreover, HiveForce Labs also discovered that [APT28](#) exploited **three** old vulnerabilities related to Roundcube Mailing platform. And Threat Actor Andariel bolsters their arsenal with a newly developed lightweight EarlyRat malware.

Meanwhile, A new malware PindOS was found to be deploying Ransomware related malwares. Also, A new attack campaign MULTI#STORM strikes USA and India. All these attacks were observed to be on the rise, posing a significant threat to users all over the world.



High Level Statistics

4

Attacks
Executed

- JokerSpy
- PindOS
- EarlyRat
- Warzone

3

Vulnerabilities
Exploited

- CVE-2020-35730
- CVE-2021-44026
- CVE-2020-12641

2

Adversaries in
Action

- APT28
- Andariel



Insights

Three

Roundcube
Vulnerabilities
Exploited by APT28

Millions

of Github repository are found to be susceptible to RepoJacking. Vulnerable repositories were found to be from big tech giants.

Andariel

Latest Creation: EarlyRat Malware, have simplistic design for limited functionality for C2 activities.

JockerSpy

a Mac OS backdoor used in assault of Japanese cryptocurrency exchange market and Mac TCC was tampered for permission evasion.

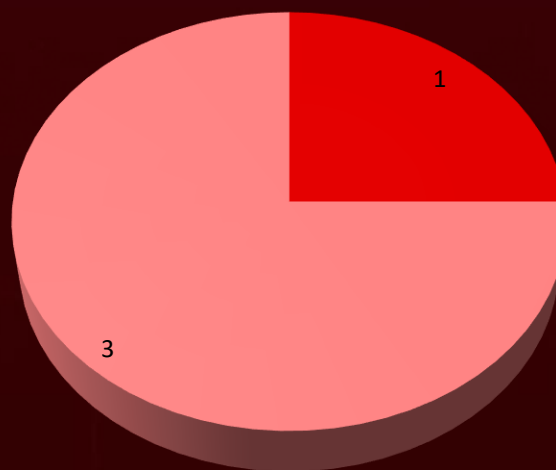
Countries Under Cyber Siege

United States, South Korea, Japan, Ukraine and India Face Intense Targeting in Recent Cyber Attacks

MULTI#STORM

new attack campaign delivering Warzone RAT via phishing mails.

Threat Distribution



■ Dropper ■ Backdoor

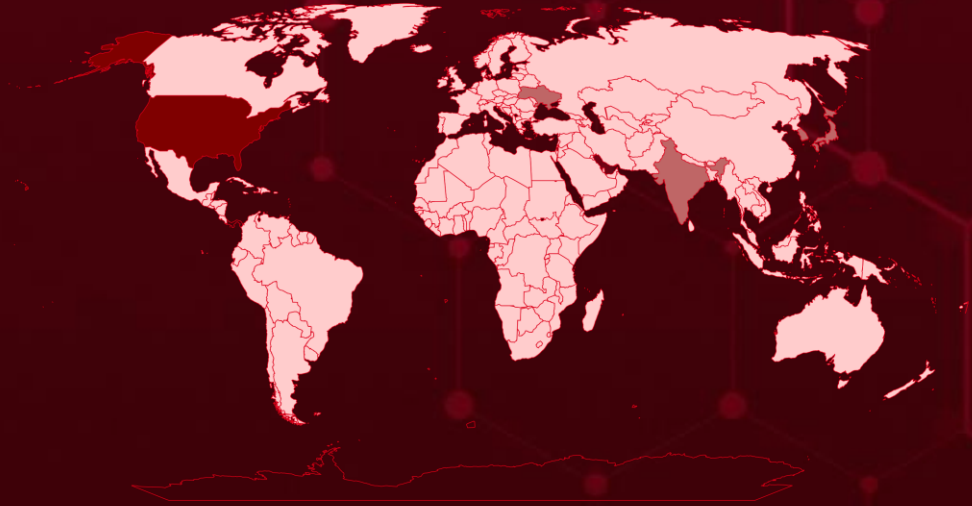


Targeted Countries

Most



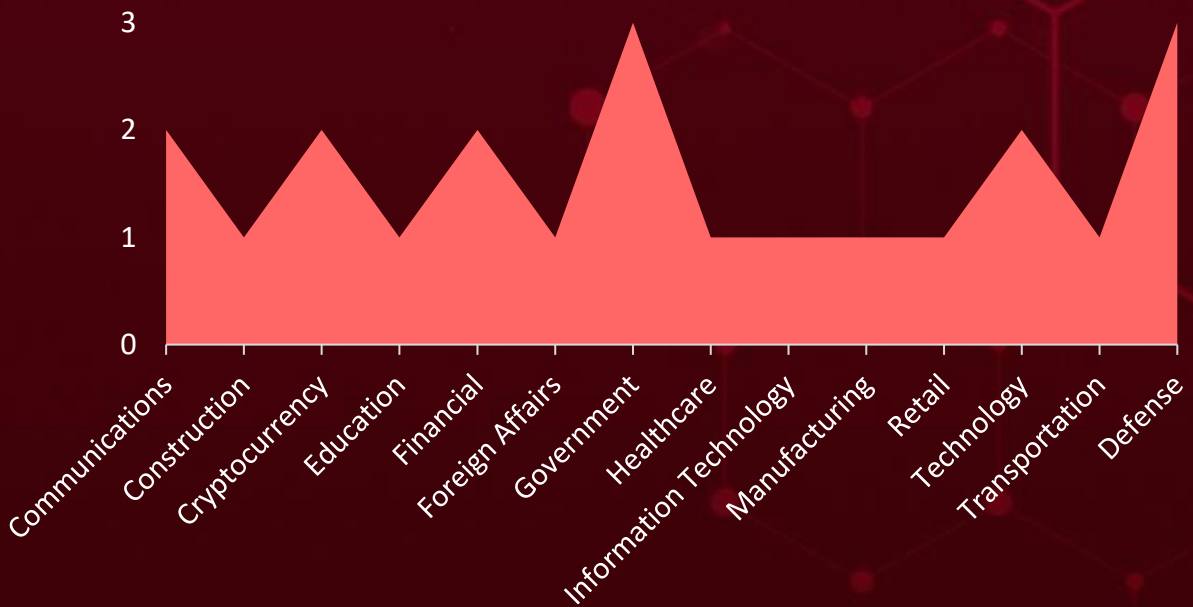
Least



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Countries	Countries	Countries	Countries
United States	Cambodia	Estonia	Indonesia
South Korea	Mexico	Moldova	Spain
Ukraine	Chile	Fiji	Ireland
India	Myanmar	Montenegro	Switzerland
Japan	China	Finland	Italy
Peru	Nicaragua	Nepal	Tajikistan
Malaysia	Colombia	France	Turkmenistan
Taiwan	Papua New Guinea	New Zealand	Timor-Leste
Austria	Costa Rica	Georgia	Argentina
Netherlands	Poland	North Macedonia	Australia
Azerbaijan	Croatia	Germany	Uruguay
Serbia	Russia	Panama	Albania
Belarus	Cuba	Greece	United Kingdom
Vietnam	Slovakia	Paraguay	Kazakhstan
Belgium	Cyprus	Guatemala	Uzbekistan
Monaco	Sweden	Philippines	Kyrgyzstan
Bolivia	Czechia	Haiti	Venezuela
Norway	Thailand	Portugal	Laos
Bosnia and Herzegovina	Denmark	Honduras	Afghanistan
Puerto Rico	Vatican City	Romania	Latvia
Brazil	Dominican Republic	Hungary	Pakistan
Armenia	Liechtenstein	San Marino	Bhutan
Brunei	Ecuador	Iceland	
Turkey	Luxembourg	Singapore	
Bulgaria	El Salvador	Andorra	
Lithuania	Malta	Slovenia	

Targeted Industries



TOP MITRE ATT&CK TTPS

T1059

Command and Scripting Interpreter

T1027

Obfuscated Files or Information

T1566

Phishing

T1059.007

Javascript

T1566.001

Spearphishing Attachment

T1547

Boot or Logon Autostart Execution

T1113

Screencapture

T1005

Data from Local System

T1132

Data Encoding

T1608

Stage Capabilities

T1204

User Execution

T1608.004

Drive-by Target

T1204.002

Malicious File

T1190

Exploit Public-Facing Application

T1571

Non-Standard Port

T1593.003

Code Repositories

T1068

Exploitation for Privilege Escalation

T1553

Subvert Trust Controls

T1071

Application Layer Protocol

T1574.004

Dylib Hijacking

🔪 Attacks Executed

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
JokerSpy	JokerSpy is an advanced toolkit meticulously crafted to infiltrate macOS machines. It utilizes a combination of Python and Swift programs to gather data and execute arbitrary commands.	-	-
TYPE		IMPACT	AFFECTED PRODUCTS
Backdoor		System Disruption, Information Theft, and Financial Loss	Mac OS
ASSOCIATED ACTOR			PATCH LINK
-			-
IOC TYPE	VALUE		
SHA1	370a0bb4177eeebb2a75651a8addb0477b7d610b, 1ed2c5ee95ab77f8e1c1f5e2bd246589526c6362, 76b790eb3bed4a625250b961a5dda86ca5cd3a11		
SHA256	d895075057e491b34b0f8c0392b44e43ade425d19eaacea6ef8c5c9bd3487d8		
Domain	app.influmarket[.]org		

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
EarlyRat	EarlyRat is similar to MagicRat and have a simple design. It executes given command and sends details to C2 site.	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
backdoor		System Disruption, Information Theft, and Financial Loss	Windows
ASSOCIATED ACTOR			PATCH LINK
Andariel			-
IOC TYPE	VALUE		
IPv4	226.132.219[.]125 74.124.228[.]148		

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>PindOS</u>	PindOS is a sleek JavaScript dropper designed to discreetly retrieve and deploy next stage payloads, such as Bumblebee and IcedID.	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
dropper			
ASSOCIATED ACTOR		System Disruption, Information Theft, and Financial Loss	PATCH LINK
-			
IOC TYPE	VALUE		
SHA256	bcd9b7d4ca83e96704e00e378728db06291e8e2b50d68db22efd1f8974d1ca91, 07d2cb0dc0cd353fb210b065733743078e79c4a27c42872cd516a6b1fb1f00d1, 00ec8f3900336c7aeb31fef4d111ee6e33f12ad451bc5119d3e50ad80b2212b0, 15da5b0a65dd8135273124da0c6e52e017e3b54642f87571e82d2314aae97eec, 180a935383b39501c7bdf2745b3a334841f01a7df9d063fecca587b5cc3f5e7a, 92506fe773db7472e7782dbb5403548323e65a9eb2e4c15f9ac65ee6c4bd908b		

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>WarZone</u>	Warzone is a remote access tool (RAT) and operates as malware as-a-service. It has no of features to harvest sensitive data and download additional malware.	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
backdoor			
ASSOCIATED ACTOR		System Disruption, Information Theft, and Financial Loss	PATCH LINK
Confucius			
IOC TYPE	VALUE		
URL	134.19.179[.]147:38046/dominion46.ddns[.]net		
SHA256	0E799B2F64CD9D10A4DFED1109394AC7B4CCC317A3C17A95D4B3565943213257 B452A2BA481E881D10A9741A452A3F092DFB87BA42D530484D7C3B475E04DA11		




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-2021-44026		Roundcube: 1.3.0 - 1.4.11	APT28 (aka Fancy Bear)
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOM WARE
NAME	CISA KEV	cpe:2.3:a:roundcube:webmail:*:*:*:*:*	-
Roundcube Webmail SQL Injection Vulnerability			ASSOCIATED TTPs
	CWE ID	T1059: Command and Scripting Interpreter, T1005: Data from Local System, T1505: Server Software Component, T1505.003: Web Shell, T1136: Create Account, T1190: Exploit Public-Facing Application, T1565.001: Data Manipulation	https://roundcube.net/news/2021/11/12/security-updates-1.4.12-and-1.3.17-released
	CWE-89		

CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2020-12641		Roundcube: 1.2.0 - 1.4.3	APT28 (aka Fancy Bear)
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOM WARE
NAME	CISA KEV	cpe:2.3:a:roundcube:webmail:*:*:*:*:*	-
Roundcube Webmail Remote Code Execution Vulnerability			ASSOCIATED TTPs
	CWE ID	T1059: Command and Scripting Interpreter, T1133: External Remote Service	https://roundcube.net/news/2020/04/29/security-updates-1.4.4-1.3.11-and-1.2.10
	CWE-78		

CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR	
<u>CVE-2020-35730</u>		Roundcube: 1.2.0 - 1.4.9	APT28 (aka Fancy Bear)	
	ZERO-DAY			
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE	
NAME	CISA KEY	cpe:2.3:a:roundcube:webmail:*:*:*:*:*:*	-	
Roundcube Webmail CrossSite Scripting (XSS) Vulnerability				CWE ID
	CWE-79	T1059: Command and Scripting Interpreter, T1059.007: JavaScript/JScript, T1557: Man-in-the-Browser, T1189: Drive-by Compromise, T1204: User Execution, T1204.001: Malicious Link	https://roundcube.net/news/2020/12/27/security-updates-1.4.10-1.3.16-and-1.2.13	

Adversaries in Action

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRY
 APT28	Russia	Government Institutions, Military, and Media	Ukraine
	MOTIVE		
	Espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RAN SOMWARE	AFFECTED PRODUCTS
	CVE-2020-35730, CVE-2021-44026, CVE-2020-12641	-	Roundcube: 1.2.0 - 1.4.11

TTPs

T1005: Data from Local System, T1021: Remote Services, T1027: Obfuscated Files or Information, T1048: Exfiltration Over Alternative Protocol, T1059: Command and Scripting Interpreter, T1071: Application Layer Protocol, T1078: Valid Accounts, T1114: Email Collection, T1119: Automated Collection, T1133: External Remote Services, T1203: Exploitation for Client Execution, T1204: User Execution, T1213: Data from Information Repositories, T1566: Phishing, T1567: Exfiltration Over Web Service

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRY
 Andariel	North-Korea	Government Agencies, Military Organizations, Financial Services	South Korea
	MOTIVE		
	Information Theft, Espionage and Monetary Gains		
	TARGETED CVEs	ASSOCIATED ATTACKS/RAN SOMWARE	AFFECTED PRODUCTS
	-	EarlyRat	Windows

TTPs

TA0042: Resource Development, T1587: Develop Capabilities, T1566: Phishing, T1190: Exploit Public-Facing Application, T1059: Command and Scripting Interpreter, T1547: Boot or Logon Autostart Execution, T1132: Data Encoding

Recommendations

Security Teams

This digest can be utilized as a drive to force security teams to prioritize the **three exploited vulnerabilities** and block the indicators related to the threat actor - **APT28 & Andariel** and malware - **JokerSpy, PindOS, EarlyRat & WarZone**.

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 **three exploited vulnerabilities**.
- Testing the efficacy of their security controls by simulating the attacks related to the threat actor - **APT28 & Andariel** and malwares in **JokerSpy, PindOS, EarlyRat & WarZone** Breach and Attack Simulation(BAS).



Threat Advisories

[APT28 Leveraged Three Roundcube Exploits in Espionage Campaign](#)

[Millions of Github Repository susceptible to Repojecting](#)

[Fortinet Addressed Critical RCE FortiNAC Vulnerability](#)

[MULTI#STORM Campaign Sets Sights on India and U.S. with RAT](#)

[PindOS malware deploying Bumblebee and IcedID](#)

[JokerSpy macOS Backdoor Attacks Japanese Cryptocurrency Exchange](#)

[Andariel Group unleashes New EarlyRAT malware](#)

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>JockerSpy</u> <u>Backdoor</u>	Domain	app.influmarket[.]org hXXps://www.git-hub[.]me/view.php
	SHA1	937a9811b3e5482eb8f96832454723d59229f945 c7d6ede0f6ac9f060ae53bb1db40a4f96f9ceb bd8626420ecfd1ab5f4576d83be35edecd8fa70e 370a0bb4177eeebb2a75651a8addb0477b7d610b 1ed2c5ee95ab77f8e1c1f5e2bd246589526c6362 76b790eb3bed4a625250b961a5dda86ca5cd3a11
	SHA256	d895075057e491b34b0f8c0392b44e43ade425d19eaaacea6e f8c5c9bd3487d8, 8ca86f78f0c73a46f31be366538423ea0ec58089f3880e04154 3d08ce11fa626, aa951c053baf011d08f3a60a10c1d09bbac32f332413db5b38b 8737558a08dc1
<u>PindOS</u> <u>dropper</u>	URL	hxxps://qaswrahc.com/wp-content/out/mn[.]php hxxp://tusaceitesesenciales.com/mn[.]php hxxp://carwashdenham.com/mn[.]php hxxps://intellectproactive.com/dist/out/mn[.]php hxxps://masar-alulaedu.com/wp- content/woocommerce/out/berr[.]php hxxps://egyfruitcorner.com/wp-content/tareq/out/berr[.]php hxxps://tech21africa.com/wp- content/uploads/out/berr[.]php hxxps://www.posao-austrija.at/images/out/lim[.]php hxxps://logisticavirtual.org/wp-content/out/lim[.]php hxxps://adecoco.us/wp-content/out/lim[.]php hxxps://acsdxb.net/wp-content/out/lim[.]php

Attack Name	TYPE	VALUE
<u>PindOS dropper</u>	SHA256	bcd9b7d4ca83e96704e00e378728db06291e8e2b50d68db22 efd1f8974d1ca91, 07d2cb0dc0cd353fb210b065733743078e79c4a27c42872cd5 16a6b1fb1f00d1, 00ec8f3900336c7aeb31fef4d111ee6e33f12ad451bc5119d3e 50ad80b2212b0, 15da5b0a65dd8135273124da0c6e52e017e3b54642f87571e 82d2314aae97eec, 180a935383b39501c7bdf2745b3a334841f01a7df9d063fecca 587b5cc3f5e7a, 24dd5c33b8a5136bdf29d0c07cf56ef0e33a285bb12696a8ff6 5e4065cb18359, 76c9780256e195901e1c09cb8a37fb5967f9f5b36564e380e7c f2558652f875b, 28c87170f2525fdecc4092fb347acd9b8350ed65e0fd584ce9fc 001fd237d523, ac261ac26221505798c65c61a207f3951cc7dce2e1014409d8 a765d85bfd91d4, 92506fe773db7472e7782dbb5403548323e65a9eb2e4c15f9a c65ee6c4bd908b, c84c84387f0b9e7bc575a008f36919448b4e6645e1f5d054e2 0b59be726ee814, 7355656f894ae26215f979b953c8fa237dc39af857a6b27754a 93adb1823f3b6, 8f40ff286419eb4b0c4d15710dc552afb2c2a227a180f4b4f520 d09b05724151, 9101975f7aca998da796fc15a63b36ab8aa0fe0aed0b186aaed 06a3383d5f226, 4f0c9c6fc1287ef16f4683db90dd677054a1f834594494d61d7 65fa3f2e1352c, cb307d7fa6eaac6a975ad64ff966ff6b0b0fdd59109246c2f6f5e 8d50a33e93c, 361b0157ef63d362fdd4399288f5f6a0e1536633dfb49c808a3 590718c4d8f10, e71c9ac9ddd55b485e636840da150db5cd2791d0681123457 bd40623acd8311c, 8ae3be9f09f5fc64ec898a4d6467b2f6e50eaaa26fc460a4f1a9 b9566e97a9a7
<u>EarlyRat Backdoor</u>	IPv4	226.132.219[.]125 74.124.228[.]148

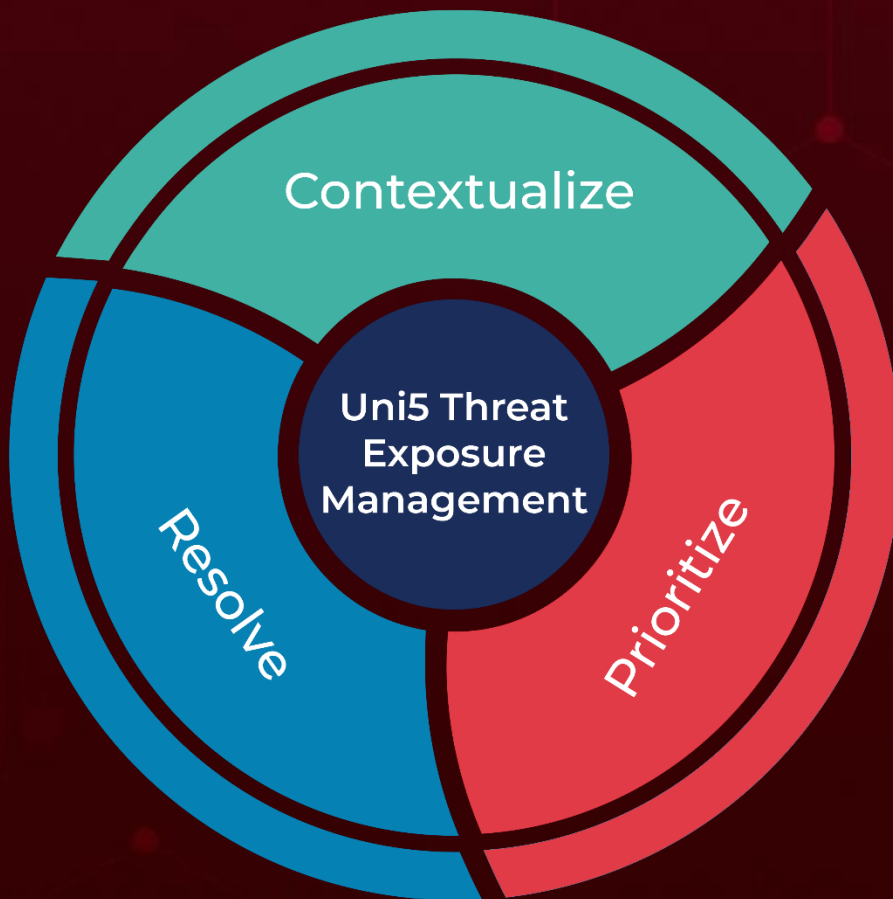
Attack Name	TYPE	VALUE
<u>WarZone backdoor</u>	URL	<p>hxxps://lo3kcg.bl.files.1drv[.]com/y4mtafF_tQM7vAFHxOASp TWOq0M5qmXCnd8FhdFvHvKOxYaA1h-ocJsyblp- r0iMVcK8UH6WP-fFspS6l- aP6uTlpsy11crZ_p_HfMxTI4yymzBqVklX-v4nQLrn2Ty0- illRzICAbtwboanM9U97qPmTgUNxhC9ab_4VfNvcmiWFeami 9lwl35D8Eb7UiF7TCJTo_0XyAatlemjaXw9zAlw/REQUEST.zip? download&psid=1 -- redirects to -- hxxps://onedrive.live[.]com/download?cid=D09BFD4EBDA21 A3D&resid=D09BFD4EBDA21A3D!152&authkey=AERksvWpjzp D_Ag hxxps://onedrive.live[.]com/download?cid=D09BFD4EBDA21 A3D&resid=D09BFD4EBDA21A3D%21151&authkey=AGCMru hQJESxca4 hxxps://onedrive.live[.]com/download?cid=D09BFD4EBDA21 A3D&resid=D09BFD4EBDA21A3D%21148&authkey=ADY1aqO ba7HnNZs&em=2 hxxps://onedrive.live[.]com/download?cid=4A89E2A4EA0448 C0&resid=4A89E2A4EA0448C0%21130&authkey=ABwx94zEG C3SmxA 134[.]19.179.147:38046/dominion46.ddns[.]net 134[.]19.179.147:29185/dominion46.ddns[.]net</p>
	SHA256	<p>8674817912be90a09c5a0840cd2dff2606027fe8843eb86892 9fc33935f5511e, 3783acc6600b0555dec5ee8d3cc4d59e07b5078dd33082c5da 279a240e7c0e79, 18C876A24913EE8FC89A146EC6A6350CDC4F081AC93C0477 FF8FC054CC507B75, 31960A45B069D62E951729E519E14DE9D7AF29CB4BB4FB8F EAD627174A07B425, 02212f763b2d19e96651613d88338c933ddfd18be4cb7e721b 2fb57f55887d64, 5A11C5641C476891AA30E7ECFA57C2639F6827D8640061F7 3E9AFECOADBBD7D2, 30951DB8BFC21640645AA9144CFEAA294BB7C6980EF236D2 8552B6F4F3F92A96, 37C59C8398279916CFCE45F8C5E3431058248F5E3BEF4D9F5 C0F44A7D564F82E, F9130B4FC7052138A0E4DBAAEC385EF5FAE57522B5D61CB8 87B0327965CCC02A, 0E799B2F64CD9D10A4DFED1109394AC7B4CCC317A3C17A9 5D4B3565943213257, 455ED920D79F9270E8E236F14B13ED4E8DB8DD493D4DABB 05756C867547D8BC7, 9C14375FBBCE08BCF3DC7F2F1100316B2FB745FA2C510F550 3E07DB57499BFC8</p>

Attack Name	TYPE	VALUE
<u>WarZone backdoor</u>	SHA256	B452A2BA481E881D10A9741A452A3F092DFB87BA42D530484D7C3B475E04DA11, AB0212F8790678E3F76ED90FBA5A455AC23FBB935CF99CABC2515A1D7277676F, 4A834B03E7FAFFEF929A2932D8E5A1839190DF4D5282CEF35DA4019FE84B19A5, 11408368F4C25509C24017B9B68B19CE5278681F6F12CE7DB992D3C6124B0A23

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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