

Date of Publication
January 11, 2024



HiveForce Labs

MONTHLY

THREAT DIGEST

Vulnerabilities, Attacks, and Actors

DECEMBER 2023

Table Of Contents

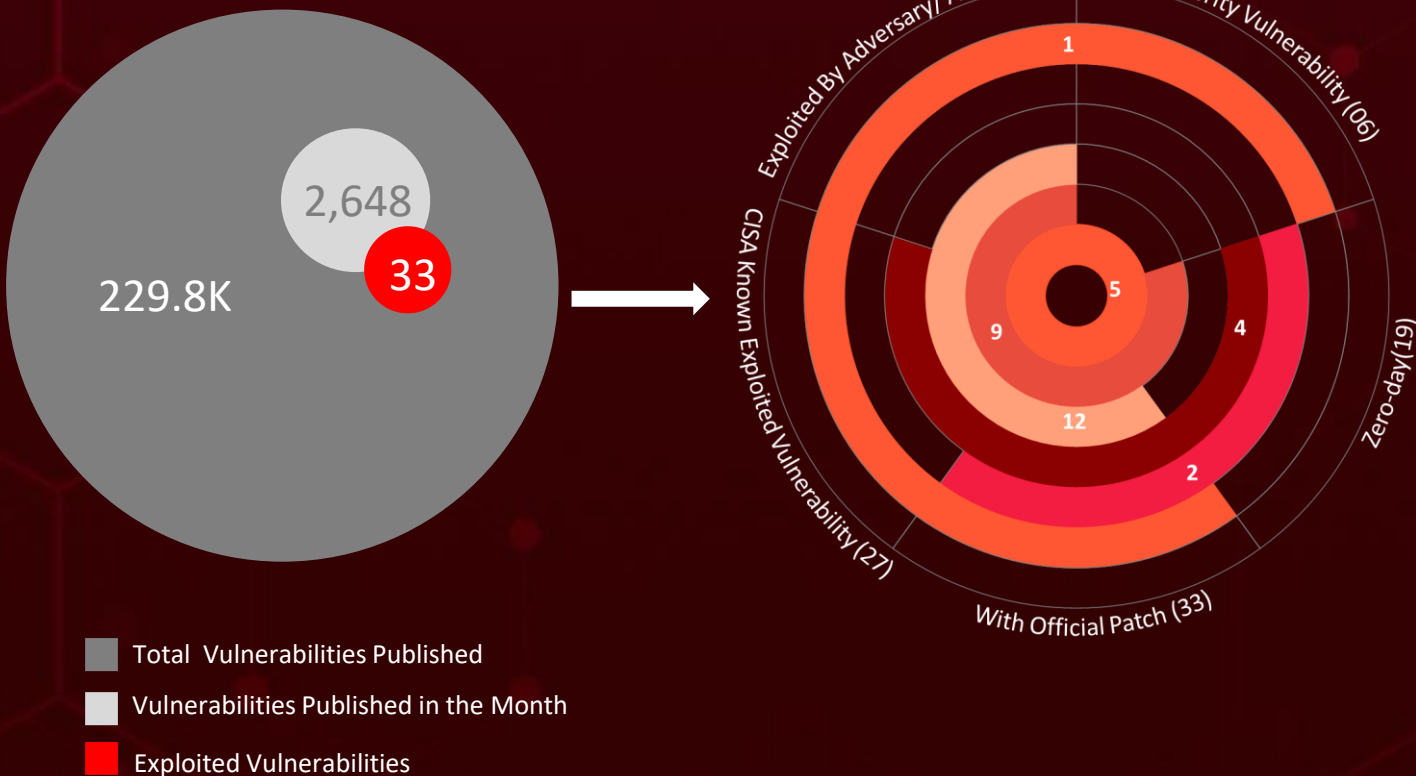
<u>Summary</u>	03
<u>Insights</u>	04
<u>Threat Landscape</u>	05
<u>Celebrity Vulnerabilities</u>	06
<u>Vulnerabilities Summary</u>	09
<u>Attacks Summary</u>	13
<u>Adversaries Summary</u>	17
<u>Targeted Products</u>	19
<u>Targeted Countries</u>	21
<u>Targeted Industries</u>	22
<u>Top MITRE ATT&CK TTPs</u>	23
<u>Top Indicators of Compromise (IOCs)</u>	24
<u>Vulnerabilities Exploited</u>	27
<u>Attacks Executed</u>	42
<u>Adversaries in Action</u>	60
<u>MITRE ATT&CK TTPS</u>	74
<u>Top 5 Takeaways</u>	78
<u>Recommendations</u>	79
<u>Hive Pro Threat Advisories</u>	80
<u>Appendix</u>	81
<u>Indicators of Compromise (IoCs)</u>	82
<u>What Next?</u>	99

Summary

In **December**, the cybersecurity landscape witnessed a surge in attention due to the discovery of **nineteen zero-day** vulnerabilities. Notably, the **'Five Celebrity Vulnerabilities'** took center stage, featuring flaws like **FOLLINA** and **PROXYSHELL** exploited by **APT28**, **LOG4J** exploited by **Lazarus**, **ProxyNotShell** exploited by **Play Ransomware**, and **ProxyLogon** exploited by **Kuiper ransomware**.

During the same period, ransomware attacks experienced a noticeable uptick, with strains such as **Cactus**, **Crucio**, **BlueSky**, and **Mallox** actively targeting victims. As ransomware continues to advance in sophistication, organizations are urged to fortify their defenses by implementing robust backup and disaster recovery strategies. Additionally, employee training to recognize and thwart phishing attacks is crucial.

In parallel, **eighteen adversaries** were active across diverse campaigns. **APT28**, renowned for sophisticated phishing activities, exploited **nine vulnerabilities** for initial access. Their primary objectives included extracting user credentials and initiating subsequent malicious activities. As the cybersecurity landscape evolves, organizations must remain vigilant and proactively address emerging threats.



Cactus Ransomware

strategically aims at establishing persistence within corporate networks through the **exploitation of Qlik Sense vulnerabilities**

CVE-2023-26360: Adobe ColdFusion Zero-Day

Targets government servers, leading to potential unauthorized code execution

BlueSky Ransomware

Deployed worldwide by exploiting CVE-2023-27350

Sandman APT

linked to China's Storm-0866 (Red Dev 40), deploys LuaDream and KEYPLUG concurrently within victim environments

Zero Click Two vulnerabilities

in Microsoft Windows can be chained to achieve RCE on vulnerable Outlook clients.

APT 29

Exploits Critical Vulnerability in JetBrains TeamCity, Posing Substantial Risk to Developer Environments

Cloud Atlas APT exploiting **CVE-2017-11882**, a **six-year-old** memory corruption vulnerability in Microsoft Office to initiate the execution of malicious payloads

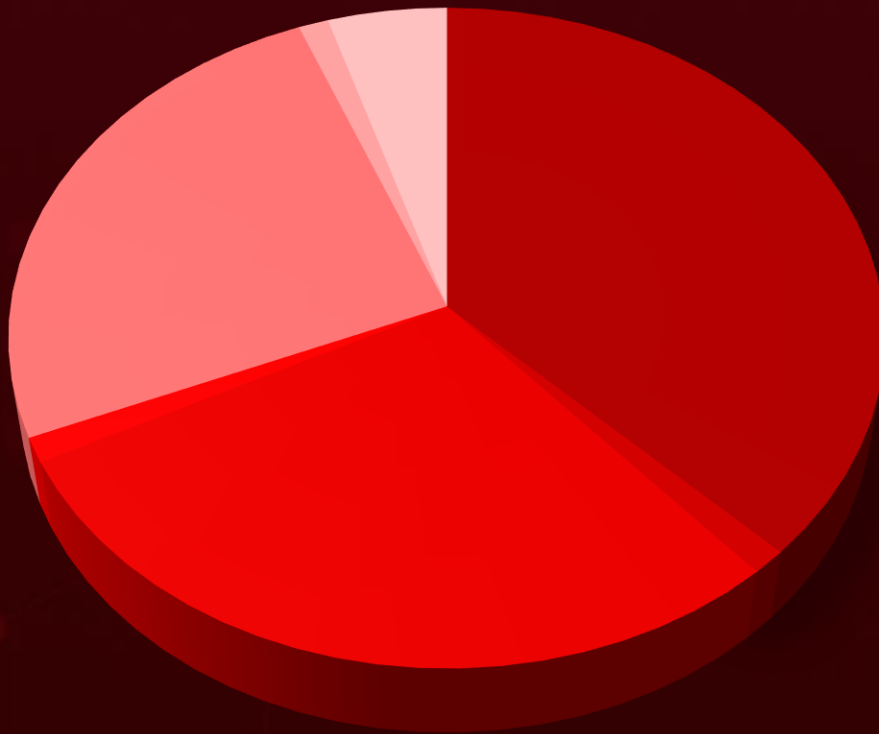
Operation RusticWeb

A phishing campaign targeting the Indian government and defense sector, deploying Rust-based malware

In December 2023, a geopolitical cybersecurity landscape unfolds, revealing **Turkey, Egypt, the United States, Cyprus, and Israel** as the top-targeted countries

Highlighted in December 2023 is a cyber battleground encompassing the **government, telecommunications, healthcare, and manufacturing** sectors, designating them as the top industries

Threat Landscape



- Malware Attacks
- Man-in-the-Middle Attacks
- Injection Attacks
- Denial-of-Service Attacks
- Social Engineering
- Eavesdropping Attacks
- Password Attacks



Celebrity Vulnerabilities

CVE ID	ZERO-DAY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2022-30190		Windows Server: 2008 – 2022, Windows: 7 – 11 21H2	APT28
	CISA KEY		
NAME		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
FOLLINA (Microsoft Windows Support Diagnostic Tool Remote Code Execution Vulnerability)	CWE ID	ASSOCIATED TTPs	PATCH DETAILS
	CWE-78	T1059: Command and Scripting Interpreter; T1203: Exploitation for Client Execution	https://msrc.microsoft.com/update-guide/en-US/advisory/CVE-2022-30190

CVE ID	ZERO-DAY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2021-34473		Microsoft Exchange Server	APT28
	CISA KEY		
NAME		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
PROXYSHELL (Microsoft Exchange Server Remote Code Execution Vulnerability)	CWE ID	ASSOCIATED TTPs	PATCH DETAILS
	CWE-918	T1059: Command and Scripting Interpreter, T1203: Exploitation for Client Execution	https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2021-34473

CVE ID	ZERO-DAY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2021-44228</u>		Apache Log4j2	Lazarus Group
	CISA KEV		
NAME		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
		LOG4J (Apache Log4j2 Remote Code Execution Vulnerability)	cpe:2.3:a:apache:log4j:*:*:*:*:*:*
CWE ID	CWE-917 CWE-20 CWE-400 CWE-502	ASSOCIATED TTPs	PATCH DETAILS
		T1059: Command and Scripting Interpreter	https://logging.apache.org/log4j/2.x/security.html

CVE ID	ZERO-DAY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2022-41040</u>		Microsoft Exchange Server	-
	CISA KEV		
NAME		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
		ProxyNotShell (Microsoft Exchange Server Server-Side Request Forgery Vulnerability)	cpe:2.3:a:microsoft:exchange_server:*:*:*:*:*
CWE ID	CWE-918	ASSOCIATED TTPs	PATCH DETAILS
		T1552.005: Cloud Instance Metadata API	https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2022-41040



CVE ID	ZERO-DAY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2022-41082</u>		Microsoft Exchange Server	-
	CISA KEV		
NAME		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
		cpe:2.3:a:microsoft:exchange_server:*:*:*:*:*	Play Ransomware
ProxyNotShell (Microsoft Exchange Server Remote Code Execution Vulnerability)	CWE ID	ASSOCIATED TTPs	PATCH DETAILS
	CWE-502	T1059: Command and Scripting Interpreter	<u>https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2022-41082</u>


CVE ID	ZERO-DAY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2021-26855</u>		Microsoft Exchange Server	-
	CISA KEV		
NAME		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
		cpe:2.3:a:microsoft:exchange_server:*:*:*:*:*	Kuiper ransomware
ProxyLogon (Microsoft Exchange Server Remote Code Execution Vulnerability)	CWE ID	ASSOCIATED TTPs	PATCH DETAILS
	CWE-918	T1059: Command and Scripting Interpreter	<u>https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2021-26855</u>



Vulnerabilities Summary

CVE	NAME	AFFECTED PRODUCT	ZERO -DAY	KEV	PATCH
CVE-2023-41266	Qlik Sense Enterprise path traversal vulnerability	Qlik Sense Enterprise for Windows			
CVE-2023-41265	Qlik Sense Enterprise Privilege escalation vulnerability	Qlik Sense Enterprise for Windows			
CVE-2023-48365	Qlik Sense Enterprise remote code execution vulnerability	Qlik Sense Enterprise for Windows			
CVE-2023-26360	Adobe ColdFusion Deserialization of Untrusted Data Vulnerability	Adobe ColdFusion			
CVE-2023-27350	PaperCut MF/NG Improper Access Control Vulnerability	PaperCut MF and NG			
CVE-2022-30190	FOLLINA (Microsoft Windows Support Diagnostic Tool Remote Code Execution Vulnerability)	Microsoft Windows			
CVE-2023-23397	Microsoft Office Outlook Privilege Escalation Vulnerability	Microsoft Windows			
CVE-2023-38831	WinRAR Remote Code Execution Vulnerability	RARLAB WinRAR			
CVE-2021-40444	Microsoft MSHTML Remote Code Execution Vulnerability	Windows Server & Microsoft Internet Explorer			
CVE-2021-42292	Microsoft Excel Security Feature Bypass	Microsoft Office & Excel			

CVE	NAME	AFFECTED PRODUCT	ZERO-DAY	KEV	PATCH
CVE-2021-42321	Microsoft Exchange Server Remote Code Execution Vulnerability	Microsoft Exchange Server			
CVE-2021-34473	PROXYSHELL (Microsoft Exchange Server Remote Code Execution Vulnerability)	Microsoft Exchange Server			
CVE-2020-17144	Microsoft Exchange Server Remote Code Execution Vulnerability	Microsoft Exchange Server			
CVE-2020-0688	Microsoft Exchange Server Validation Key Remote Code Execution Vulnerability	Microsoft Exchange Server			
CVE-2021-44228	Apache Log4j2 Remote Code Execution Vulnerability	Apache Log4j2			
CVE-2023-42916	Apple WebKit Out-of-Bounds Read Vulnerability	Apple Multiple Products			
CVE-2023-42917	Apple WebKit Memory Corruption Vulnerability	Apple Multiple Products			
CVE-2023-20588	AMD Speculative Execution Information disclosure Vulnerability	Microsoft Windows			
CVE-2023-42793	JetBrains TeamCity Authentication Bypass Vulnerability	TeamCity			





CVE	NAME	AFFECTED PRODUCT	ZERO-DAY	KEV	PATCH
CVE-2023-23752	Joomla Improper Access Control Vulnerability	Joomla!			
CVE-2017-5638	Apache Struts Remote Code Execution Vulnerability	Apache Struts			
CVE-2018-13379	Fortinet FortiOS SSL VPN Path Traversal Vulnerability	Fortinet FortiOS			
CVE-2020-12812	Fortinet FortiOS SSL VPN Improper Authentication Vulnerability	Fortinet FortiOS			
CVE-2022-41040	ProxyNotShell (Microsoft Exchange Server Server-Side Request Forgery Vulnerability)	Microsoft Exchange Server			
CVE-2022-41082	ProxyNotShell (Microsoft Exchange Server Remote Code Execution Vulnerability)	Microsoft Exchange Server			
CVE-2021-26855	ProxyLogon (Microsoft Exchange Server Remote Code Execution Vulnerability)	Microsoft Exchange Server			
CVE-2019-1068	Microsoft SQL Server Remote Code Execution Vulnerability	Microsoft SQL Server			
CVE-2020-0618	Microsoft SQL Server Remote Code Execution Vulnerability	Microsoft SQL Server			
CVE-2023-7024	Google Chrome Heap buffer overflow in WebRTC Vulnerability	Google Chrome			
CVE-2017-11882	Microsoft Office Memory Corruption Vulnerability	Microsoft Office			






CVE	NAME	AFFECTED PRODUCT	ZERO-DAY	KEV	PATCH
CVE-2023-7102	Barracuda ESG Arbitrary Code Execution Vulnerability	Barracuda Email Security Gateway (ESG) Appliance	✓	✗	✓
CVE-2023-7101	Spreadsheet::ParseExcel Arbitrary Code Execution Vulnerability	Spreadsheet::Parse Excel	✓	✓	✓
CVE-2023-51467	Apache OFBiz Pre-authentication Remote Code Execution Vulnerability	Apache OFBiz	✓	✗	✓



Attacks Summary

ATTACK NAME	TYPE	CVEs	IMPACTED PRODUCT	PATCH	DELIVERY METHOD
Cactus ransomware	Ransomware	CVE-2023-41266 CVE-2023-41265 CVE-2023-48365	Qlik Sense Enterprise for Windows		Exploiting critical Qlik Sense vulnerabilities
SugarGh0st RAT	RAT	-	-	-	-
Gh0st RAT	RAT	-	-	-	-
Crucio Ransomware	Ransomware	-	-	-	-
Agent Raccoon	Backdoor	-	-	-	-
Ntospy	Tool	-	-	-	-
BlueSky Ransomware	Ransomware	CVE-2023-27350	PaperCut MF and NG		Phishing emails, phishing websites, and trojanized downloads
Tor2Mine	Crypto Miner	CVE-2023-27350	PaperCut MF and NG		Exploiting Vulnerability
DanaBot	MaaS	-	-	-	Phishing
AsyncRAT	RAT	-	-	-	distributed through WSF script files
KrasueRAT	RAT	-	Linux	-	-
XorDdos Trojan	Trojan	-	-	-	Launch brute force attack
MrAnon Stealer	Infostealer	-	-	-	Phishing
NineRAT	RAT	CVE-2021-44228	Apache Log4j2		Exploiting vulnerability
DLRAT					
BottomLoader	Downloader				

ATTACK NAME	TYPE	CVEs	IMPACTED PRODUCT	PATCH	DELIVERY METHOD
HazyLoad	Downloader	CVE-2021-44228	Apache Log4j2		Exploiting vulnerability
LuaDream	Modular backdoor	-	-	-	DLL hijacking
KEYPLUG					-
Editbot Stealer	Infostealer	-	-	-	Unknown
More_Eggs	Backdoor	-	-	-	Phishing
GraphicalProtection	Backdoor	CVE-2023-42793	TeamCity		Phishing
Rhadamanthys stealer	Infostealer	-	-	-	Phishing
NKAbuse	Backdoor	CVE-2017-5638	Apache Struts Remote Code Execution Vulnerability		Exploiting vulnerability
Pierogi++	Backdoor	-	-	-	-
Micropsia	Infostealer	-	-	-	Phishing
BarbWire	Backdoor	-	-	-	-
Play Ransomware	Ransomware	CVE-2018-13379 CVE-2020-12812 CVE-2022-41040 CVE-2022-41082	Fortinet FortiOS, Microsoft Exchange Server		Exploiting vulnerabilities
ODAgent	Downloader	-	-	-	Unknown
OilCheck					-
OilBooster					Phishing

ATTACK NAME	TYPE	CVEs	IMPACTED PRODUCT	PATCH	DELIVERY METHOD
SC5k	Downloader	-	-	-	Phishing
Kuiper ransomware	Ransomware	CVE-2021-26855	Microsoft Exchange Server		Exploiting vulnerability
PikaBot	Loader and backdoor	-	-	-	Malvertising
JaskaGO	Infostealer	-	-	-	Phishing
Mallox Ransomware	Ransomware	CVE-2019-1068 CVE-2020-0618	Microsoft SQL Server		Exploiting vulnerabilities
MuddyC2Go	Backdoor	-	-	-	Phishing
Bandook RAT	RAT	-	-	-	Phishing
MetaStealer	Stealer	-	-	-	Emails
LONEPAGE	Backdoor	CVE-2023-38831	WinRAR		-
SEASPY	Backdoor	CVE-2023-7102 CVE-2023-7101	Barracuda Email Security Gateway (ESG) Appliance, Spreadsheet::Parse Excel		Exploiting vulnerabilities
SALTWATER	Backdoor	CVE-2023-7102 CVE-2023-7101	Barracuda Email Security Gateway (ESG) Appliance, Spreadsheet::Parse Excel		Exploiting Vulnerabilities
AppleSeed	Backdoor	-	-	-	Phishing

ATTACK NAME	TYPE	CVEs	IMPACTED PRODUCT	PATCH	DELIVERY METHOD
AlphaSeed	Backdoor	-	-	-	Phishing
Meterpreter	Backdoor	-	-	-	Phishing
TinyNuke	Trojan	-	-	-	Phishing









Adversaries Summary






ACTOR NAME	MOTIVE	ORIGIN	CVEs	ATTACK	PRODUCT
CyberAv3ngers	Information theft and espionage	Iran	-	Crucio Ransom ware	-
AeroBlade	Information theft and espionage	Unkno wn	-	-	-
Star Blizzard	Information theft and espionage	Russia	-	-	-
APT28	Information theft and espionage	Russia	CVE-2022-30190 CVE-2023-23397 CVE-2023-38831 CVE-2021-40444 CVE-2021-42292 CVE-2021-42321 CVE-2021-34473 CVE-2020-17144 CVE-2020-0688	-	Microsoft Windows, RARLAB WinRAR, Windows Server & Microsoft Internet Explorer, Microsoft Office & Excel, Microsoft Exchange Server
Lazarus Group	Information theft and espionage, Sabotage and destruction, Financial crime	North Korea	CVE-2021-44228	NineRAT, DLRAT, BottomL oader, HazyLoa d	Apache Log4j2
Sandman	Information theft and espionage	Unkno wn	-	LuaDrea m, KEYPLUG	-
Storm-0866	Information theft and espionage	China	-	LuaDrea m, KEYPLUG	-

ACTOR NAME	MOTIVE	ORIGIN	CVEs	ATTACK	PRODUCT
TA4557	Information theft and espionage	Unknown	-	More_Eggs	-
GambleForce	Information theft and espionage	Unknown	CVE-2023-23752	-	Joomla!
APT 29	Information theft and espionage	Russia	CVE-2023-42793	GraphicalProton	JetBrains TeamCity versions prior to 2023.05.4
Gaza Cybergang	Information theft and espionage	Gaza	-	Pierogi++, Micropsia, and BarbWire	-
OilRig	Information theft and espionage	Iran	-	ODAgent, OilCheck, OilBooster, SC5k downloader	-
TA577	Information theft and espionage	Unknown	-	PikaBot	-
MuddyWater	Information theft and espionage	Iran	-	MuddyC2Go, Venom Proxy, SimpleHelp	-
Cloud Atlas	Information theft and espionage	Russia	CVE-2017-11882	-	Microsoft Office
UAC-0099	Information theft and espionage	Unknown	CVE-2023-38831	LONEPAGE	WinRAR
UNC4841	Information theft and espionage	China	CVE-2023-7102 CVE-2023-7101	SEASPY and SALTWATER	Barracuda Email Security Gateway (ESG) Appliance, Spreadsheet: :Parse Excel
Kimsuky	Information theft and espionage	North Korea	-	AppleSeed, AlphaSeed, Meterpreter, TinyNuke	-



Targeted Products

VENDOR	PRODUCT TYPE	PRODUCT WITH VERSION
	Application	Qlik Sense Enterprise for Windows
	Application	Adobe ColdFusion
	Application	PaperCut MF and NG
	Application	Atlassian Confluence Server: 4.0 - 8.5.3 Confluence Data Center: 4.0-8.7.0 Assets Discovery: before 6.2.0 Atlassian Companion App for MacOS: before 2.0.0 Jira Service Management Server: 5.4.0 - 5.11.1 Jira Service Management Data Center: 5.4.0 - 5.11.1 Bitbucket Data Center: 7.17.0 - 8.12.0 Bitbucket Server: 7.17.0 - 8.12.0 Confluence Data Center and Server 6.13.x - 8.3.0
	Application	Microsoft Exchange Server, Microsoft Office & Excel, Microsoft Internet Explorer, Microsoft Azure, Microsoft Office Outlook, Microsoft SQL Server
	Application	RARLAB WinRAR
	Framework	Apache Log4j2, Apache Struts, Apache OFBiz before 18.12.11
	Application	Apple Multiple Products
	Application	JetBrains TeamCity before 2023.05.4

VENDOR	PRODUCT TYPE	PRODUCT ALONG WITH VERSION
	webservice	Joomla! 4.0.0 through 4.2.7
	Application	Fortinet FortiOS
	Browser	Google Chrome: 100.0.4896.60 - 120.0.6099.110
	Security Appliance	Barracuda's Email Security Gateway (ESG): 5.1.3 - 9.2.1.001
	Secure networking utilities	OpenSSH 9.0 to 9.5

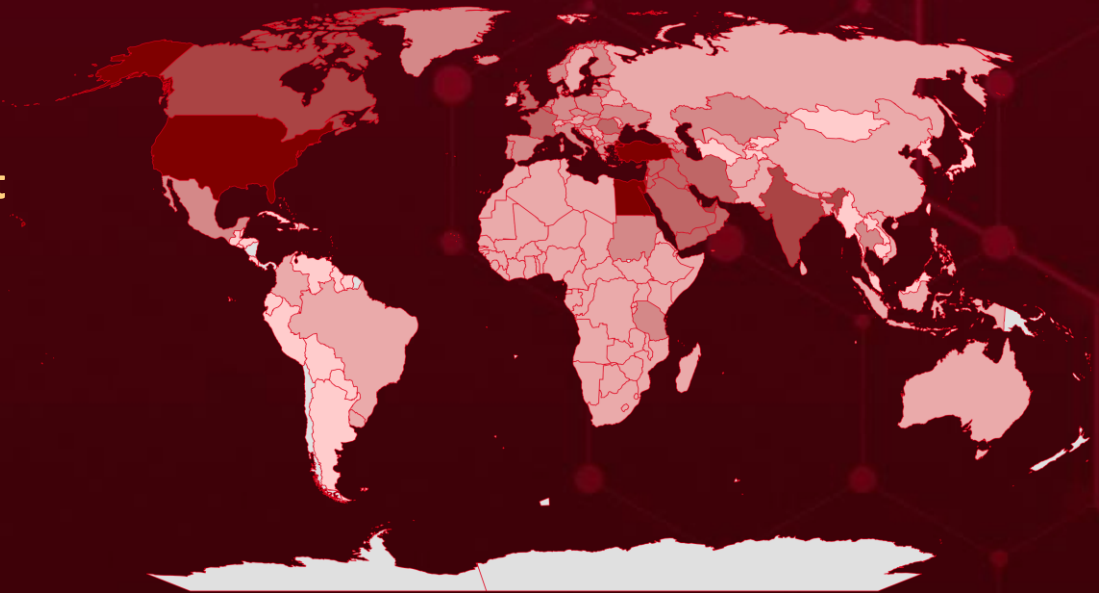


Targeted Countries

Most



Least



Powered by Bing
© Australian Bureau of Statistics, GeoNames, Microsoft, Navinfo, OpenStreetMap, TomTom

Color	Countries	Color	Countries	Color	Countries	Color	Countries	Color	Countries
Dark Red	Turkey	Dark Red	Qatar	Dark Red	Greece	Dark Red	Burundi	Dark Red	Jersey
Dark Red	Egypt	Dark Red	Oman	Dark Red	North Macedonia	Dark Red	Uganda	Dark Red	Seychelles
Dark Red	United States	Dark Red	Kuwait	Dark Red	Greenland	Dark Red	Algeria	Dark Red	Australia
Dark Red	Cyprus	Dark Red	Sudan	Dark Red	Azerbaijan	Dark Red	Afghanistan	Dark Red	Somalia
Dark Red	Israel	Dark Red	Norway	Dark Red	Hungary	Dark Red	Anguilla	Dark Red	Djibouti
Dark Red	Akrotiri and Dhekelia	Dark Red	Mexico	Dark Red	Portugal	Dark Red	Rwanda	Dark Red	South Sudan
Dark Red	Canada	Dark Red	Albania	Dark Red	Iceland	Dark Red	Indonesia	Dark Red	Kenya
Dark Red	United Arab Emirates	Dark Red	Slovakia	Dark Red	Slovenia	Dark Red	Gabon	Dark Red	Svalbard
Dark Red	India	Dark Red	Croatia	Dark Red	Armenia	Dark Red	Antigua and Barbuda	Dark Red	Abkhazia
Dark Red	Lebanon	Dark Red	Lithuania	Dark Red	Spain	Dark Red	Sri Lanka	Dark Red	Gibraltar
Dark Red	Romania	Dark Red	Czech Republic	Dark Red	Italy	Dark Red	Cameroon	Dark Red	Zimbabwe
Dark Red	Iran	Dark Red	Netherlands	Dark Red	Tanzania	Dark Red	Togo	Dark Red	Tunisia
Dark Red	Syria	Dark Red	Denmark	Dark Red	Kazakhstan	Dark Red	Ireland	Dark Red	Dominican Republic
Dark Red	Yemen	Dark Red	Poland	Dark Red	Ukraine	Dark Red	Botswana	Dark Red	Bhutan
Dark Red	Iraq	Dark Red	Estonia	Dark Red	Latvia	Dark Red	Isle of Man	Dark Red	Austria
Dark Red	Jordan	Dark Red	South Korea	Dark Red	Bulgaria	Dark Red	Faroe Islands	Dark Red	Uzbekistan
Dark Red	Saudi Arabia	Dark Red	Finland	Dark Red	Senegal	Dark Red	Aruba	Dark Red	Lesotho
Dark Red	France	Dark Red	Thailand	Dark Red	Vietnam	Dark Red	Central African Republic	Dark Red	Brazil
Dark Red	Belgium	Dark Red	Georgia	Dark Red	Switzerland	Dark Red	Burkina Faso	Dark Red	Liberia
Dark Red	Bahrain	Dark Red	Luxembourg	Dark Red	Guinea	Dark Red	Barbados	Dark Red	Pakistan
Dark Red	United Kingdom	Dark Red	Germany	Dark Red	Bangladesh	Dark Red	Ivory Coast	Dark Red	Libya
Dark Red	Palestine	Dark Red	Montenegro	Dark Red	Guinea-Bissau	Dark Red	São Tomé and Príncipe	Dark Red	Philippines
Dark Red		Dark Red		Dark Red	Chad	Dark Red		Dark Red	Liechtenstein

Targeted Industries

Most



Government



Tele-communications



Healthcare



Manufacturing



Professional Services



Construction



Defence



Education



NGOs



Aviation



Energy



Retail



Technology



Think-Tanks



Engineering



Transportation



Financial



Embassies



Utilities



Research Organizations



Gaming



Automotive



Hotels



Chemical



Oil & Gas



Food products



Real Estate

Least

TOP 25 MITRE ATT&CK TTPS

T1059

Command and Scripting Interpreter

T1566

Phishing

T1027

Obfuscated Files or Information

T1082

System Information Discovery

T1059.001

PowerShell

T1588

Obtain Capabilities

T1036

Masquerading

T1071

Application Layer Protocol

T1588.006

Vulnerabilities

T1055

Process Injection

T1053.005

Scheduled Task

T1140

Deobfuscate/Decode Files or Information

T1204

User Execution

T1041

Exfiltration Over C2 Channel

T1566.001

Spearphishing Attachment

T1053

Scheduled Task/Job

T1203

Exploitation for Client Execution

T1071.001

Web Protocols

T1083

File and Directory Discovery

T1105

Ingress Tool Transfer

T1560

Archive Collected Data

T1547

Boot or Logon Autostart Execution

T1070

Indicator Removal

T1204.002

Malicious File

T1588.005

Exploits



Top Indicators of Compromise (IOCs)

Attack Name	TYPE	VALUE
<u>Cactus</u>	SHA256	0933f23c466188e0a7c6fab661bdb8487cf7028c5cec557efb75fde9879a6af8, 09e7e3f23bac60ce7a4024ed7972981865f030c3edba9cda760d055f0a46e448, 0a8088e2ba539541f476836c6f4e5812c4ae5c52133801faa1bc3806a4ade683, 1ea49714b2ff515922e3b606da7a9f01732b207a877bcdd1908f733eb3c98af3, 21d7ad955dbc5732be90f3d6dbb4e161ef9cf511a7989e72c4ea1c5e44744167, 4b0a5d6a176317437978211a423a7c1cdf832baa7984bba09aeeb5a1e4d07aa3, 509a533ade43406eb50fa9cb8984b2e10d008ad0ea8c22d0652f3ee101125bb7, 6642d79f4d1044b756e2c3221ace37a71b4a671e18847f2940e2ea349dc6cb67, 69b6b447ce63c98acc9569fdcc3780ced1e22ebd50c5cad9ee1ea7a4d42e62cc, 70a580e734c2331098fa3ecf3f1c928e17ddb92f99f75956c3f805b065222685, 729f0ff446c0aa04fdae3529ef02cf552e63782e841c24f3c4cb481b4b947859, 78c16de9fc07f1d0375a093903f86583a4e32037a7da8aa2f90ecb15c4862c17, 7a8c7166ebdae96e7adceaf50c064bf1cf85d3c360a6ff513414dc3078a6aa54, 9ec6d3bc07743d96b723174379620dd56c167c58a1e04dbfb7a392319647441a, a5296d07dabb3d7b53fce4cf803190bfa57e062abeb11a6d801250acb7005c5f, c52ad663ff29e146de6b7b20d834304202de7120e93a93de1de1cb1d56190bfd, d1db583aad156dc4edd093a64aade4180a77477cb247347e3fc97cae401d061f, d455264bbb253a659149ba186f872920d83e3c6a0cab13965aa52a6b49406019, d7429c7ecea552403d8e9b420578f954f5bf5407996afaa36db723a0c070c4de, e9ac9436b5d61dd85e87e0fcd11b729a91466fe2f55f1f32501202d9ed98d562
<u>NineRAT</u>	SHA256	534f5612954db99c86baa67ef51a3ad88bc21735bce7bb591afa8a4317c35433, ba8cd92cc059232203bcadee260ddbae273fc4c89b18424974955607476982c4,

Attack Name	TYPE	VALUE
<u>NineRAT</u>	SHA256	47e017b40d418374c0889e4d22aa48633b1d41b16b61b1f2897a39112a435d30, f91188d23b14526676706a5c9ead05c1a91ea0b9d6ac902623bc565e1c200a59, 5b02fc3cfb5d74c09cab724b5b54c53a7c07e5766bffe5b1adf782c9e86a8541, 82d4a0fef550af4f01a07041c16d851f262d859a3352475c62630e2c16a21def
<u>DLRAT</u>	SHA256	e615ea30dd37644526060689544c1a1d263b6bb77fe3084aa7883669c1fde12f, 9a48357c06758217b3a99cdf4ab83263c04bdea98c347dd14b254cab6c81b13a
<u>Bottom Loader</u>	SHA256	0e416e3cc1673d8fc3e7b2469e491c005152b9328515ea9bbd7cf96f1d23a99f
<u>HazyLoad</u>	SHA256	000752074544950ae9020a35ccd77de277f1cd5026b4b9559279dc3b86965eee
<u>LuaDream</u>	Domains	mode.encagil[.]com, ssl.explorecell[.]com
	SHA1	fc8fdf58cd945619cbfede40ba06aada10de9459
	IPv4	185.82.218[.]230
<u>KEYPLUG</u>	Domains	dan.det-ploshadka[.]com, ssl.e-novauto[.]com, yum.luxyries[.]com
	SHA1	a7932112b7880c95d77bc36c6fced977f4a5889, b6d759c9ea5d2136bacb1b2289a31c33500c8de8
	IPv4	172.67.216[.]63, 185.38.142[.]129, 37.120.140[.]205, 45.129.199[.]122, 45.90.59[.]17, 5.2.67[.]176, 5.2.72[.]130, 5.255.88[.]188, 79.110.52[.]160
<u>GraphicalProtodn</u>	SHA256	01b5f7094de0b2c6f8e28aa9a2ded678c166d615530e595621e692a9c0240732, 34c8f155601a3948ddb0d60b582cfe87de970d443cc0e05df48b1a1ad2e42b5e, 620d2bf14fe345eef618fdd1dac242b3a0bb65ccb75699fe00f7c671f2c1d869, 773f0102720af2957859d6930cd09693824d87db705b3303cef9ee794375ce13,




Attack Name	TYPE	VALUE
<u>GraphicalProtocols</u>	SHA256	7b666b978dbbe7c032cef19a90993e8e4922b743ee839632bfa6d99314ea6c53, 8afb71b7ce511b0bce642f46d6fc5dd79fad86a58223061b684313966efef9c7, 971f0ced6c42dd2b6e3ea3e6c54d0081cf9b06e79a38c2ede3a2c5228c27a6dc, cb83e5cb264161c28de76a44d0edb450745e773d24bec5869d85f69633e44dcf, cd3584d61c2724f927553770924149bb51811742a461146b15b34a26c92cad43, ebe231c90fad02590fc56d5840acc63b90312b0e2fee7da3c7606027ed92600e, f1b40e6e5a7cbc22f7a0bd34607b13e7e3493b8aad7431c47f1366f0256e23eb, c7b01242d2e15c3da0f45b8adec4e6913e534849cde16a2a6c480045e03fbee4, 4bf1915785d7c6e0987eb9c15857f7ac67dc365177a1707b14822131d43a6166, 18101518eae3eec6ebe453de4c4c380160774d7c3ed5c79e1813013ac1bb0b93, 19f1ef66e449cf2a2b0283dbb756850cca396114286e1485e35e6c672c9c3641, 1e74cf0223d57fd846e171f4a58790280d4593df1f23132044076560a5455ff8, 219fb90d2e88a2197a9e08b0e7811e2e0bd23d59233287587ccc4642c2cf3d67, 92c7693e82a90d08249edeafbca6533fed81b62e9e056dec34c24756e0a130a6, b53e27c79eed8531b1e05827ace2362603fb9f77f53cee2e34940d570217cbf7, c37c109171f32456bbe57b8676cc533091e387e6ba733fbaa01175c43cfb6ebd, c40a8006a7b1f10b1b42fdd8d6d0f434be503fb3400fb948ac9ab8dffa5b78a0, c832462c15c8041191f190f7a88d25089d57f78e97161c3003d68d0cc2c4baa3, f6194121e1540c3553273709127dfa1daab96b0acfab6e92548bf4059913c69
<u>Play Ransomware</u>	MD5	09f341874f72a5cfcedbca707bfd1b3b, 57bcb8cfad510109f7ddedf045e86a70
	SHA256	453257c3494addafb39cb6815862403e827947a1e7737eb8168cd10522465deb, 47c7cee3d76106279c4c28ad1de3c833c1ba0a2ec56b0150586c7e8480ccae57, 75404543de25513b376f097ceb383e8efb9c9b95da8945fd4aa37c7b2f226212, 7a42f96599df8090cf89d6e3ce4316d24c6c00e499c8557a2e09d61c00c11986









Vulnerabilities Exploited




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2023-41266		Qlik Sense Enterprise for Windows	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:qlik:qlik_sense:august_2022::-*:*:enterprise:windows:*:*	Cactus ransomware
Qlik Sense Enterprise path traversal vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-20	T1202: Indirect Command Execution, T1059: Command and Scripting Interpreter,	https://community.qlik.com/t5/Product-Downloads/tkb-p/Downloads




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2023-41265		Qlik Sense Enterprise for Windows	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:qlik:qlik_sense:august_2022::-*:*:enterprise:windows:*:*	Cactus ransomware
Qlik Sense Enterprise Privilege escalation vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-444	T1068: Exploitation for Privilege Escalation	https://community.qlik.com/t5/Product-Downloads/tkb-p/Downloads




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2023-48365		Qlik Sense Enterprise for Windows	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEV	cpe:2.3:a:qlik:qlik_sense:august_2022:-:*:*:enterprise:windows:*:*	Cactus ransomware
Qlik Sense Enterprise remote code execution vulnerability			ASSOCIATED TTPs
	CWE ID	T1059: Command and Scripting Interpreter	https://community.qlik.com/t5/Product-Downloads/tkb-p/Downloads
	CWE-444		




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2023-26360		ColdFusion: 2016 update 15 and earlier versions ColdFusion: 2021 Update 5 and earlier versions	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEV	cpe:2.3:a:adobe:coldfusion:2021:Update 5:*:*:*:*:*	-
Adobe ColdFusion Improper Access Control Vulnerability			ASSOCIATED TTPs
	CWE ID	T1190: Exploit Public-Facing Application; T1588.006: Vulnerabilities	https://coldfusion.adobe.com/2023/03/released-coldfusion-2021-and-2018-march-2023-security-updates/
	CWE-284		




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2023-27350</u>		PaperCut MF: before22.0.9 PaperCut NG: before22.0.9	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEV	cpe:2.3:a:papercut: papercut_ng:*:*:* :*:*:*	BlueSky Ransomware, Tor2Mine
PaperCut MF/NG Improper Access Control Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH DETAILS
	CWE-284	T1190: Exploit Public-Facing Application; T1588.006: Vulnerabilities	https://www.papercut.com/kb/Main/PO-1216-and-PO-1219




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2023-23397</u>		Microsoft Windows	APT28
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEV	cpe:2.3:a:microsoft:365_apps:*:*:* :enterprise:*:*	-
Microsoft Office Outlook Privilege Escalation Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-294	T1068: Exploitation for Privilege Escalation	https://msrc.microsoft.com/update-guide/vulnerability/CVE-2023-23397




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2023-38831</u>		WinRAR version 6.22 and older versions	APT28, <u>UAC-0099</u>
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEV	cpe:2.3:a:rarlab:winrar:6.23:beta 1:*:*:*:*:*	<u>LONEPAGE</u>
RARLAB WinRAR Code Execution Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH DETAILS
	CWE-20	T1059: Command and Scripting Interpreter	Update WinRAR version to 6.23 or later versions




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2021-40444</u>		Windows Server & Microsoft Internet Explorer	APT28
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEV	cpe:2.3:o:microsoft:windows_10:-:*:*:*:*:*	-
Microsoft MSHTML Remote Code Execution Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH DETAILS
	CWE-22	T1059: Command and Scripting Interpreter	https://msrc.microsoft.com/update-guide/en-US/advisory/CVE-2021-40444




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2021-42292		Microsoft Office & Excel	APT28
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSO MWARE
NAME	CISA KEV	cpe:2.3:a:microsoft:excel:2013:sp1:*:*:*:*:*	
Microsoft Excel Security Feature Bypass		cpe:2.3:a:microsoft:office:2013:sp1:*:*:*:*:*	-
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-20	T1566.001: Spearphishing Attachment; T1059: Command and Scripting Interpreter	https://msrc.microsoft.com/update-guide/en-US/advisory/CVE-2021-42292



CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2021-42321		Microsoft Exchange Server	APT28
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSO MWARE
NAME	CISA KEV	cpe:2.3:a:microsoft:exchange_server:2016:cumulative_update_21:*:*:*:*:*	
Microsoft Exchange Server Remote Code Execution Vulnerability		cpe:2.3:a:microsoft:exchange_server:2016:cumulative_update_22:*:*:*:*:*	-
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-20	T1059: Command and Scripting Interpreter	https://msrc.microsoft.com/update-guide/en-US/advisory/CVE-2021-42321




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2020-17144		Microsoft Exchange Server	APT28
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSO MWARE
NAME	CISA KEV	cpe:2.3:a:microsoft:exchange_server:2010:sp3_rollup_31:*:*:*:*:*	-
Microsoft Exchange Server Remote Code Execution Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-502	T1059:Command and Scripting Interpreter	https://msrc.microsoft.com/update-guide/en-US/advisory/CVE-2020-17144




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2023-23752		Joomla! 4.0.0 through 4.2.7	GambleForce (aka EagleStrike)
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSO MWARE
NAME	CISA KEV	cpe:2.3:a:joomla:joomla\!*:*:*:*:*:*:*	-
Joomla Improper Access Control Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-284	T1059:Command and Scripting Interpreter, T1005: Data from Local System	https://developer.joomla.org/security-centre/894-20230201-core-improper-access-check-in-webservice-endpoints.html




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2020-0688</u>		Microsoft Exchange Server	APT28
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:microsoft:exchange_server:2010:sp3_rollup_30:*:*:*:*:* cpe:2.3:a:microsoft:exchange_server:2013:cumulative_update_23:*:*:*:*:* cpe:2.3:a:microsoft:exchange_server:2016:cumulative_update_14:*:*:*:*:* cpe:2.3:a:microsoft:exchange_server:2016:cumulative_update_15:*:*:*:*:* cpe:2.3:a:microsoft:exchange_server:2019:cumulative_update_3:*:*:*:*:* cpe:2.3:a:microsoft:exchange_server:2019:cumulative_update_4:*:*:*:*:*	-
Microsoft Exchange Server Validation Key Remote Code Execution Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-287	T1059:Command and Scripting Interpreter	https://msrc.microsoft.com/update-guide/en-US/advisory/CVE-2020-0688




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2019-1068</u>		Microsoft SQL Server	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:microsoft:sql_server:-:*:*:*:*:*	Mallox Ransomware
Microsoft SQL Server Remote Code Execution Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-119	T1059:Command and Scripting Interpreter	https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-1068




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2023-42916</u>		iPhone XS and later, iPad Pro 12.9-inch 2nd generation and later, iPad Pro 10.5-inch, iPad Pro 11-inch 1st generation and later, iPad Air 3rd generation and later, iPad 6th generation and later, iPad mini 5th generation and later, Macs running macOS Monterey, Ventura, Sonoma	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:apple:safari:*:*:*:*:*:* cpe:2.3:o:apple:ipados:*:*:*:*:*:* cpe:2.3:o:apple:iphone_os:*:*:*:*:*:* cpe:2.3:o:apple:macos:*:*:*:*:**	-
Apple WebKit Out-of-Bounds Read Vulnerability	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-125	T1059: Command and Scripting Interpreter	https://support.apple.com/en-us/HT214031 ; https://support.apple.com/en-us/HT214032 ; https://support.apple.com/en-us/HT214033




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2023-42917</u>		iPhone XS and later, iPad Pro 12.9-inch 2nd generation and later, iPad Pro 10.5-inch, iPad Pro 11-inch 1st generation and later, iPad Air 3rd generation and later, iPad 6th generation and later, iPad mini 5th generation and later, Macs running macOS Monterey, Ventura, Sonoma	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:apple:safari:*:*:*:*:*:*:* cpe:2.3:o:apple:ipados:*:*:*:*:*:* cpe:2.3:o:apple:iphone_os:*:*:*:*:*:* cpe:2.3:o:apple:macos:*:*:*:*:*:*	-
Apple WebKit Memory Corruption Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-787	T1059: Command and Scripting Interpreter	https://support.apple.com/en-us/HT214031 ; https://support.apple.com/en-us/HT214032 ; https://support.apple.com/en-us/HT214033




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2023-20588		Windows Server: 2008 - 2022 23H2 Windows: 10 - 11 23H2	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:o:microsoft:windows_server:*:*:*:*:* cpe:2.3:o:microsoft:windows:*:*:*:*:*	-
AMD Speculative Execution information disclosure Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-369	T1082: System Information Discovery	https://msrc.microsoft.com/update-guide/en-US/advisory/CVE-2023-20588




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2023-42793		JetBrains TeamCity versions prior to 2023.05.4	APT 29
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:jetbrains:teamcity.*:*:*:*:*:*	GraphicalProton
JetBrains TeamCity Authentication Bypass Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-288	T1082: System Information Discovery	https://www.jetbrains.com/teamcity/download/other.html




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2017-5638		Apache Struts: 2.3.5 - 2.5.10	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:apache:struts:*:*:*:*:*	NKAbuse
Apache Struts Remote Code Execution Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-20	T1059: Command and Scripting Interpreter	https://struts.apache.org/download.cgi#struts-ga




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
CVE-2018-13379		FortiOS: 5.6.3 - 6.0.4	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:o:fortinet:fortios:*:*:*:*:*	Play Ransomware
Fortinet FortiOS SSL VPN Path Traversal Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-22	T1059: Command and Scripting Interpreter	https://fortiguard.com/advisory/FG-IR-18-384 http://www.fortiguard.com/psirt/FG-IR-20-233




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2020-12812</u>		FortiOS: 6.0.0 - 6.4.0	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:o:fortinet:fortios:*: *:*:*:*:*:*	Play Ransomware
Fortinet FortiOS SSL VPN Improper Authentication Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-178	T1082: System Information Discovery	https://fortiguard.com/psirt/FG-IR-19-283




CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2023-7024</u>		Google Chrome: 100.0.4896.60 - 120.0.6099.110	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:google:chrome: e:*:*:*:*:*:*	-
Google Chrome Heap buffer overflow in WebRTC Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-122	T1059: Command and Scripting Interpreter; T1203: Exploitation for Client Execution	https://www.google.com/intl/en/chrome/?standalone=1

CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2017-11882</u>		Microsoft Office 2007 - 2016	Cloud Atlas
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:microsoft:office:2007:sp3:*:*:*:*:* cpe:2.3:a:microsoft:office:2010:sp2:*:*:*:*:* cpe:2.3:a:microsoft:office:2013:sp1:*:*:*:*:* cpe:2.3:a:microsoft:office:2016:*:*:*:*:*	
Microsoft Office Memory Corruption Vulnerability			-
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-119	T1059: Command and Scripting Interpreter	https://msrc.microsoft.com/update-guide/vulnerability/CVE-2017-11882

CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2023-7101</u>		Spreadsheet::ParseExcel version 0.65	UNC4841
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:douglas_wilson:spreadsheet_parse_excel:0.65:*:*:*:*:* *	SEASPY and SALTWATER
Spreadsheet::ParseExcel Arbitrary Code Execution Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-95	T1059: Command and Scripting Interpreter	https://github.com/jmcnamara/spreadsheet-parseexcel/commit/bd3159277e745468e2c553417b35d5d7dc7405bc

CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2023-7102</u>		Barracuda's Email Security Gateway (ESG): 5.1.3 - 9.2.1.001	UNC4841
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEV	cpe:2.3:a:barracuda:esg_appliance:9.2.1.001:*.~*~*~*~*~*~*	SEASPY and SALTWATER
Barracuda ESG Arbitrary Code Execution Vulnerability			ASSOCIATED TTPs
	CWE ID	T1059: Command and Scripting Interpreter	https://www.barracuda.com/company/legal/esg-vulnerability
	CWE-1104		

CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2023-51467</u>		Apache OFBiz before 18.12.11	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEV	cpe:2.3:a:apache:ofbiz:~*~*~*~*~*~*~*~*~*	-
Apache OFBiz Pre-authentication Remote Code Execution Vulnerability			
	CWE ID	T1059: Command and Scripting Interpreter	https://ofbiz.apache.org/download.html
	CWE-918 CWE-287		

CVE ID	CELEBRITY VULNERABILITY	AFFECTED PRODUCTS	ASSOCIATED ACTOR
<u>CVE-2020-0618</u>		Microsoft SQL Server	-
	ZERO-DAY		
		AFFECTED CPE	ASSOCIATED ATTACKS/RANSOMWARE
NAME	CISA KEY	cpe:2.3:a:microsoft:sql_server:-:*:*:*:*:*	Mallox Ransomware
Microsoft SQL Server Remote Code Execution Vulnerability			
	CWE ID	ASSOCIATED TTPs	PATCH LINK
	CWE-502	T1059: Command and Scripting Interpreter	https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2020-0618

🔪 Attacks Executed

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Cactus</u>	<p>CACTUS ransomware targets large commercial entities, gains initial access to networks through Qlik Sense vulnerabilities, exfiltrates sensitive data, and communicates with victims through Tox. It employs a variety of tools and tactics to distribute the ransomware binary and maintain persistence within the environment, while also attempting to obtain credentials and escalate privileges through lateral movement.</p>	Exploiting critical Qlik Sense vulnerabilities	<p>CVE-2023-41266 CVE-2023-41265 CVE-2023-48365</p>
TYPE		IMPACT	AFFECTED PRODUCTS
Ransomware		Data loss, Compromised Systems	Qlik Sense Enterprise for Windows
ASSOCIATED ACTOR			PATCH LINK
-			https://community.qlik.com/t5/Product-Downloads/tkb-p/Downloads

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>SugarGh0st RAT</u>	<p>SugarGh0st is a customized variant of the Gh0st RAT. SugarGh0st is equipped with some customized features in its reconnaissance capability in looking for specific ODBC registry keys, loading library files with specific file extensions and function name, customized commands to facilitate the remote administration tasks directed by the C2, and to evade earlier detections.</p>	-	-
TYPE		IMPACT	AFFECTED PRODUCTS
RAT		System Compromise	-
ASSOCIATED ACTOR			PATCH LINK
-			-

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>Gh0st RAT</u>	Gh0st Rat is a Windows malware that can remotely control a computer to log keystrokes, take screenshots, execute arbitrary commands, download and install additional malware.	-	-
TYPE		IMPACT	AFFECTED PRODUCTS
RAT			-
ASSOCIATED ACTOR		System Compromise	PATCH LINK
-			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Crucio Ransomware</u>	It is a customized Ransomware designed to infiltrate and exfiltrate data from key Israeli targets.	-	-
TYPE		IMPACT	AFFECTED PRODUCTS
Ransomware			-
ASSOCIATED ACTOR		Data loss, Compromised Systems	PATCH LINK
CyberAv3ngers			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Agent Racoon</u>	Agent Racoon is a malicious program written using the .NET framework. This malware creates a communication channel with its C&C server by leveraging the DNS protocol.	-	-
TYPE		IMPACT	AFFECTED PRODUCTS
Backdoor			-
ASSOCIATED ACTOR		Execute commands and exfiltrate data	PATCH LINK
-			-

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>Ntospy</u>	This malware is a Network Provider DLL module designed to steal user credentials.	-	-
TYPE		IMPACT	AFFECTED PRODUCTS
Tool			-
ASSOCIATED ACTOR		Steal Credentials	PATCH LINK
-			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>BlueSky Ransomware</u>	BlueSky Ransomware is a modern malware using advanced techniques to evade security defenses. It predominantly targets Windows hosts and utilizes the Windows multi-threading model for fast encryption.	Phishing emails, phishing websites, and trojanized downloads	CVE-2023-27350
TYPE		IMPACT	AFFECTED PRODUCTS
Ransomware			PaperCut MF and NG
ASSOCIATED ACTOR		Encrypt data	PATCH LINK
-			https://www.papercut.com/kb/Main/PO-1216-and-PO-1219

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Tor2Mine</u>	Tor2Mine is based on XMRigCC and uses a script that attempts to disable malware protection, execute a miner payload, and harvest Windows credentials.	Exploiting Vulnerability	CVE-2023-27350
TYPE		IMPACT	AFFECTED PRODUCTS
Crypto Miner			PaperCut MF and NG
ASSOCIATED ACTOR		Harvest Credentials	PATCH LINK
-			https://www.papercut.com/kb/Main/PO-1216-and-PO-1219

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>DanaBot</u>	DanaBot is written in Delphi programming language, capable of stealing credentials and hijacking infected systems.	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
MaaS		Data theft for financial gain	-
ASSOCIATED ACTOR			PATCH LINK
-			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>AsyncRAT</u>	AsyncRAT is a malware known for stealing credentials and executing various malicious activities since 2019. Its recent variant, distributed through WSF script files, employs sophisticated fileless techniques. It can log keystrokes, transfer files, and gain remote desktop control, providing attackers with extensive access to the infected system.	distributed through WSF script files	-
TYPE		IMPACT	AFFECTED PRODUCTS
RAT		Steal Credentials	Windows
ASSOCIATED ACTOR			PATCH LINK
-			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>KrasueRAT</u>	The Krasue rootkit is a Linux Kernel Module (LKM) and targets Linux Kernel versions 2.6x/3.10.x. The rootkit masquerades as a VMware driver and does not contain a valid digital signature.	-	-
TYPE		IMPACT	AFFECTED PRODUCTS
RAT		Data theft for financial gain	Linux
ASSOCIATED ACTOR			PATCH LINK
-			-

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>XorDdos Trojan</u>	XOR DDoS is a Linux Trojan malware with rootkit capabilities that was used to launch large-scale DDoS attacks. Its name stems from the heavy usage of XOR encryption in both malware and network communication to the C&Cs. It is built for multiple Linux architectures like ARM, x86 and x64.	Launch brute force attack	-
TYPE		IMPACT	AFFECTED PRODUCTS
Trojan			
ASSOCIATED ACTOR		Collect data, execute commands, launch DDoS	Linux
-			PATCH LINK
		-	

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>MrAnon Stealer</u>	MrAnon Stealer is a infostealer malware currently being used in phishing malicious campaigns. This malicious software is designed to pilfer victims' credentials, system details, browser sessions, and cryptocurrency extensions.	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
Infostealer			
ASSOCIATED ACTOR		Data Theft	PATCH LINK
-			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>NineRAT</u>	NineRAT, part of Lazarus Group's Operation Blacksmith, is a D programming language-based remote access trojan. It steals sensitive information, including credentials, system data, and browser sessions.	Exploiting vulnerability	CVE-2021-44228
TYPE		IMPACT	AFFECTED PRODUCTS
RAT			
ASSOCIATED ACTOR		Data Theft	PATCH LINK
Lazarus Group			https://logging.apache.org/log4j/2.x/security.html

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
DLRAT TYPE RAT ASSOCIATED ACTOR Lazarus Group	DLRAT is a Remote Access Trojan (RAT), written in the D programming language. Linked to the Lazarus Group, it executes commands for extensive system reconnaissance upon activation.	Exploiting vulnerability	CVE-2021-44228
		IMPACT	AFFECTED PRODUCTS
		Data Theft	Apache Log4j2
			PATCH LINK
			https://logging.apache.org/log4j/2.x/security.html

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
BottomLoader TYPE Downloader ASSOCIATED ACTOR Lazarus Group	BottomLoader is a DLang-based malware downloader that acts as the initial stage of a cyber attack. Its primary function is to fetch and execute additional malicious payloads.	Exploiting vulnerability	CVE-2021-44228
		IMPACT	AFFECTED PRODUCTS
		Malware deployment	Apache Log4j2
			PATCH LINK
			https://logging.apache.org/log4j/2.x/security.html

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>HazyLoad</u>	HazyLoad is a specialized proxy tool identified in the Lazarus Group's Operation Blacksmith campaign. Its primary function is to create a lasting connection between the compromised host and infrastructure controlled by the attackers.	Exploiting vulnerability	CVE-2021-44228
		IMPACT	AFFECTED PRODUCTS
TYPE		Apache Log4j2	
Downloader			
ASSOCIATED ACTOR	Lazarus Group	Data theft	PATCH LINK
		https://logging.apache.org/log4j/2.x/security.html	

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>LuaDream</u>	LuaDream is a newly emerged backdoor malware with global reach. Functioning as an info-stealing malware, it has the capability to extract sensitive data, including credentials, system information, and user data, using various protocols.	DLL hijacking	-
		IMPACT	AFFECTED PRODUCTS
TYPE		Data theft	
Modular backdoor			
ASSOCIATED ACTOR	Sandman and Storm-0866		PATCH LINK
		-	

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>KEYPLUG</u>	KEYPLUG is a modular backdoor malware written in C++. It has the capability to steal sensitive data, assume control of a computer, and execute various other attacks.	-	-
TYPE		IMPACT	AFFECTED PRODUCTS
Modular backdoor		Data Theft	-
ASSOCIATED ACTOR			PATCH LINK
Sandman and Storm-0866			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Editbot Stealer</u>	Editbot Stealer is a malware that targets compromised networks, operated through a central command and control server. It specializes in stealing sensitive information such as browsing history, internet cookies, and login credentials.	-	-
TYPE		IMPACT	AFFECTED PRODUCTS
Infostealer		Data Theft	-
ASSOCIATED ACTOR			PATCH LINK
-			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>More_Eggs</u>	More_Eggs is a JScript backdoor employed by the TA4557. It possesses the capability to collect data on installed anti-malware programs, assess the existence of various antivirus tools, and download as well as execute additional payloads.	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
Backdoor		Data Theft	-
ASSOCIATED ACTOR			PATCH LINK
TA4557			-

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>GraphicalProton</u>	GraphicalProton, linked to APT29, is a backdoor (also known as BlueBravo) utilized in campaigns involving TeamCity exploitation. The malware acts as a loader, communicating through OneDrive or Dropbox.	Phishing	CVE-2023-42793
		IMPACT	AFFECTED PRODUCTS
TYPE		TeamCity	
Backdoor			
ASSOCIATED ACTOR		Data Theft, Lateral movement	PATCH LINK
APT29			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Rhadamanthys stealer</u>	Rhadamanthys, the information-stealing malware, has taken a significant leap with its v0.5.0 upgrade, introducing expanded stealing features, raw syscalls, and an enhanced loader design, showcasing advanced evasion techniques. Its modular architecture allows for continuous updates, showcasing improved loader design and enhanced spying functionalities.	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
Infostealer		Data Theft	-
ASSOCIATED ACTOR			PATCH LINK
-		-	

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>NKAbuse</u>	NKAbuse is a multiplatform malware that hides in blockchain networks, acts as a backdoor and flooder, and targets Linux systems and IoT devices. It infects through vulnerabilities and uses NKN to communicate with its command-and-control server.	Exploiting vulnerability	CVE-2017-5638
		IMPACT	AFFECTED PRODUCTS
TYPE		Data Theft, Launching DDoS attacks	Apache Struts Remote Code Execution Vulnerability
Backdoor			PATCH LINK
ASSOCIATED ACTOR			https://struts.apache.org/download.cgi#struts-ga
-			

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Pierogi++</u>	Pierogi++ is a backdoor malware targeting Palestinians, developed by Gaza Cyber Gang. It spies, executes commands, and uploads files. It's written in C++ for stealth and lacks Ukrainian clues.	-	-
		IMPACT	AFFECTED PRODUCTS
TYPE		Espionage, Disruption, Data exfiltration	-
Backdoor			PATCH LINK
ASSOCIATED ACTOR			-
Gaza Cyber Gang			

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>Micropsia</u>	Micropsia is stealthy Windows malware that steals passwords, credit card info, documents, records keystrokes, takes screenshots, spies on browsing, and sends data to attackers.	Phishing	-	
TYPE		IMPACT	AFFECTED PRODUCTS	
Infostealer				
ASSOCIATED ACTOR				PATCH LINK
Gaza Cybergang				

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs	
<u>BarbWire</u>	BarbWire, a potent malware developed by the APT-C-23 hacking group, has emerged as a significant threat to Israeli national security and private citizens alike.	-	-	
TYPE		IMPACT	AFFECTED PRODUCTS	
Backdoor				
ASSOCIATED ACTOR				PATCH LINK
Gaza Cybergang				

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs	
<u>SC5k</u>	SC5k, an Iran-linked OilRig downloader, grabs and runs hidden malware on your system. It hides in cloud APIs, targets Israel.	Phishing	-	
TYPE		IMPACT	AFFECTED PRODUCTS	
Downloader				
ASSOCIATED ACTOR				PATCH LINK
OilRig				

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>Play Ransomware</u>	The Play ransomware group, active since June 2022, employs a double-extortion model, impacting businesses globally. Utilizing legitimate tools for malicious activities, the group has affected approximately 300 entities.	Exploiting vulnerabilities	CVE-2018-13379 CVE-2020-12812 CVE-2022-41040 CVE-2022-41082
TYPE		IMPACT	AFFECTED PRODUCTS
Ransomware		data loss, Compromised Systems	Fortinet FortiOS, Microsoft Exchange Server
ASSOCIATED ACTOR			PATCH LINK
-			https://fortiguard.com/advisory/FG-IR-18-384 ; http://www.fortiguard.com/psirt/FG-IR-20-233 ; https://fortiguard.com/psirt/FG-IR-19-283 ; https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2022-41040 ; https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2022-41082

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>ODAgent</u>	ODAgent, an Iran-linked OilRig downloader, hides in cloud APIs to infect systems and fetch more malware. It targets Israel, especially healthcare, manufacturing, and government.	Unknown	-
TYPE		IMPACT	AFFECTED PRODUCTS
Downloader		Data Theft, Disruption	-
ASSOCIATED ACTOR			PATCH LINK
OilRig			-

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>OilCheck</u>	OilCheck, an OilRig reconnaissance malware, gathers system info and helps launch future attacks. It hides as Windows processes and targets Israel's government, military, and critical infrastructure.	Unknown	-
TYPE		IMPACT	AFFECTED PRODUCTS
Downloader		Data Theft, Disruption	-
ASSOCIATED ACTOR			PATCH LINK
OilRig			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>OilBooster</u>	OilBooster, linked to OilRig group, is a downloader that silently grabs more malware onto your system. It hides in cloud APIs, targets Israel.	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
Downloader		Data Theft, Disruption	-
ASSOCIATED ACTOR			PATCH LINK
OilRig			-

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>Kuiper ransomware</u>	The Kuiper ransomware, developed in Golang, is compatible with Windows, Linux, and OSX systems, and is associated with a suspected intrusion at a government financial department in Africa.	Exploiting vulnerability	CVE-2021-26855	
TYPE		IMPACT	AFFECTED PRODUCTS	
Ransomware				Microsoft Exchange Server
ASSOCIATED ACTOR				PATCH LINK
-				https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2021-26855
		Data Theft		

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs	
<u>PikaBot</u>	PikaBot, a versatile malware, downloads other threats like ransomware, gives attackers remote control, and hides on Windows systems.	Malvertising	-	
TYPE		IMPACT	AFFECTED PRODUCTS	
Loader and backdoor				-
ASSOCIATED ACTOR				PATCH LINK
TA577				
		Data Theft, Downloading other malware		

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs	
<u>JaskaGO</u>	JaskaGO is a new cross-platform information stealer malware. This malware is designed to target and compromise systems running both Windows and macOS operating systems.	Phishing	-	
TYPE		IMPACT	AFFECTED PRODUCTS	
Infostealer				-
ASSOCIATED ACTOR				PATCH LINK
-				
		Data Theft, Data exfiltration		

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>Mallox Ransomware</u>	<p>Mallox is a resilient Ransomware-as-a-Service (RaaS) threat, utilizing tactics like exploiting MS-SQL vulnerabilities and employing brute force attacks. Operating with a prolonged presence, Mallox's recent variant, "Mallox.Resurrection," exhibits consistent functionalities.</p>	Exploiting vulnerabilities	<p>CVE-2019-1068 CVE-2020-0618</p>
TYPE		IMPACT	AFFECTED PRODUCTS
Ransomware		Data Theft	Microsoft SQL Server
ASSOCIATED ACTOR			PATCH LINK
-			<p>https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-1068 https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2020-0618</p>

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>Bandoock RAT</u>	<p>The Bandoock malware is a persistent remote access trojan (RAT) that surfaced in 2007. Programmed in Delphi and C++, it has evolved through various iterations over the years and has historical associations with Dark Caracal. It featured prominently in a campaign dubbed 'Operation Manul'.</p>	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
Remote access trojan		Data exfiltration	Windows
ASSOCIATED ACTOR			PATCH LINK
-			-

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>MuddyC2Go</u>	MuddyC2Go, employed by the Iranian nation-state actor identified as MuddyWater, functions as a backdoor for carrying out cyber espionage attacks on the telecommunications sectors of Egypt, Sudan, and Tanzania.	Phishing	-
TYPE		IMPACT	AFFECTED PRODUCTS
Backdoor		Data Theft, data breaches, and financial losses	-
ASSOCIATED ACTOR			PATCH LINK
-			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>MetaStealer</u>	A new information-stealing malware, available for sale for USD125 per month or USD1000 for unlimited use. Crafted to stealthily infiltrate target systems, facilitating the potential theft of passwords, cryptocurrency wallets, banking information, identity compromise, and financial losses.	Emails	-
TYPE		IMPACT	AFFECTED PRODUCTS
Stealer		Theft of passwords, cryptocurrency wallets, banking information, identity compromise, and financial losses	-
ASSOCIATED ACTOR			PATCH LINK
-			-

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>LONEPAGE</u>	The VBS malware LONEPAGE, when executed, it creates a hidden PowerShell process that communicates with a hardcoded C2 URL to fetch a text file	-	CVE-2023-38831
TYPE		IMPACT	AFFECTED PRODUCTS
Backdoor		Deploying additional payloads like keyloggers, data stealers, and screenshot tools	WinRAR
ASSOCIATED ACTOR			PATCH LINK
UAC-0099			Update WinRAR version to 6.23 or later versions

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>SEASPY</u>	This malware is a persistent backdoor that masquerades as a legitimate network service. The malware is designed to listen to commands received from the Threat Actor's Command-and-Control through TCP packets.	Exploiting Vulnerabilities	CVE-2023-7102 CVE-2023-7101
		IMPACT	AFFECTED PRODUCTS
TYPE		Barracuda Email Security Gateway (ESG) Appliance, Spreadsheet::Parse Excel	
Backdoor			
ASSOCIATED ACTOR		Monitor Traffic, Execute commands	PATCH LINK
UNC4841	https://www.barracuda.com/company/legal/esg-vulnerability		

NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs
<u>SALTWATER</u>	SALTWATER is a module for the Barracuda SMTP daemon (bsmtpd) that has backdoor functionality. SALTWATER can upload or download arbitrary files, execute commands, and has proxy and tunneling capabilities	Exploiting Vulnerabilities	CVE-2023-7102 CVE-2023-7101
		IMPACT	AFFECTED PRODUCTS
TYPE		Barracuda Email Security Gateway (ESG) Appliance, Spreadsheet::Parse Excel	
Backdoor			
ASSOCIATED ACTOR		Upload and download files, execute commands	PATCH LINK
UNC4841	https://www.barracuda.com/company/legal/esg-vulnerability		


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>AppleSeed</u>	AppleSeed is a backdoor that can receive the threat actor's commands from the C&C server and execute the received commands. The threat actor can use AppleSeed to control the infected system.	Phishing	-	
TYPE		IMPACT	AFFECTED PRODUCTS	
Backdoor				
ASSOCIATED ACTOR				PATCH LINK
Kimsuky				


NAME	OVERVIEW	DELIVERY METHOD	TARGETED CVEs	
<u>AlphaSeed</u>	AlphaSeed is a malware developed in Golang and supports similar features to AppleSeed such as command execution and infostealing.	Phishing	-	
TYPE		IMPACT	AFFECTED PRODUCTS	
Backdoor				
ASSOCIATED ACTOR				PATCH LINK
Kimsuky				

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


Adversaries in Action

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <p><u>CyberAv3ngers (also known as CyberAveng3rs, Cyber Avengers)</u></p>	Iran	Critical Infrastructure (specifically, Water and Wastewater Systems), Energy, Food, Beverage, Manufacturing, Healthcare, and Shipping	United States of America and Israel
	MOTIVE		
	Information theft and espionage	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
		Crucio Ransomware	-
TTPs			
TA0042: Resource Development; TA0006: Credential Access; TA0007: Discovery; TA0001: Initial Access; TA0040: Impact; T1110: Brute Force; T1584: Compromise Infrastructure; T1552: Unsecured Credentials; T1190: Exploit Public-Facing Application; T1057: Process Discovery; T1486: Data Encrypted for Impact			

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <p><u>AeroBlade</u></p>	Unknown	Aerospace	United States
	MOTIVE Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	-	-	-
	TTPs		
TA0001: Initial Access; TA0002: Execution; TA0003: Persistence; TA0005: Defense Evasion; TA0007: Discovery; TA0011: Command and Control; TA0010: Exfiltration; T1001: Data Obfuscation; T1016: System Network Configuration Discovery; T1027: Obfuscated Files or Information; T1598.002: Spearphishing Attachment; T1029: Scheduled Transfer; T1033: System Owner/User Discovery; T1041: Exfiltration Over C2 Channel; T1053.005: Scheduled Task; T1059.003: Windows Command Shell; T1059.005: Visual Basic; T1071.001: Web Protocols; T1082: System Information Discovery; T1083: File and Directory Discovery; T1105: Ingress Tool Transfer; T1106: Native API; T1137.001: Office Template Macros; T1140: Deobfuscate/Decode Files or Information; T1203: Exploitation for Client Execution; T1204.002: Malicious File; T1221: Template Injection; T1559.002: Dynamic Data Exchange			


NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <p>Star Blizzard (aka Cold River, Nahr el bared, Nahr Elbard, Cobalt Edgewater, TA446, Seaborgium, TAG-53, BlueCharlie, Blue Callisto, Calisto)</p>	Russia	Academia, Defense, Governmental Organizations, NGOs, Think Tanks and Politicians	Canada, India, Lebanon, UAE, Ukraine, USA, NATO, UK
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
-	-	-	
TTPs			
TA0043: Reconnaissance; TA0042: Resource Development; TA0001: Initial Access; TA0005: Defense Evasion; TA0006: Credential Access; TA0009: Collection; T1593: Search Open Websites/Domains; T1078: Valid Accounts; T1585: Establish Accounts; T1585.001: Social Media Accounts; T1585.002: Email Accounts; T1583: Acquire Infrastructure; T1583.001: Domains; T1586: Compromise Accounts; T1586.002: Email Accounts; T1566: Phishing; T1566.001: Spearphishing Attachment; T1566.002: Spearphishing Link; T1550: Use Alternate Authentication Material; T1550.004: Web Session Cookie; T1539: Steal Web Session Cookie; T1114: Email Collection; T1114.002: Remote Email Collection; T1114.003: Email Forwarding Rule			

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES	
 <p><u>APT28 (aka Fancy Bear, Forest Blizzard, ATK 5, BlueDelta, Fighting Ursa, FROZENLAKE, Grey-Cloud, Grizzly Steppe, Group 74, Iron Twilight, ITG05, Pawn Storm, Sednit, SIG40, Snakemackerel, Sofacy, Strontium, Swallowtail, TA422, TAG-0700, T-APT-12, TG-4127, Tsar Team, UAC-0028)</u></p>	Russia	Automotive, Aviation, Chemical, Construction, Defense, Diplomatic, Education, Electrical, Embassies, Energy, Engineering, Financial, Foreign Affairs, Government, Healthcare, Industrial, Information Technology, Intelligence organization, IT, Logistics, Media, NGOs, Oil and gas, Telecommunications, Think Tanks, Transit Pipeline, Transportation, Utilities	Afghanistan, Albania, Armenia, Australia, Azerbaijan, Belarus, Belgium, Brazil, Bulgaria, Canada, Chile, China, Croatia, Cyprus, Czech Republic, Czechia, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, India, Iran, Iraq, Italy, Japan, Jordan, Kazakhstan, Latvia, Lithuania, Luxembourg, Malaysia, Mexico, Mongolia, Montenegro, Netherlands, North Macedonia, Norway, Pakistan, Poland, Portugal, Romania, Slovakia, Slovenia, South Korea, SouthAfrica, Spain, Sweden, Switzerland, Tajikistan, Thailand, Turkey, United Arab Emirates, Uganda, United Kingdom, Ukraine, United States, Uzbekistan	
	MOTIVE			Information theft and espionage
	TARGETED CVEs			
	CVE-2022-30190 CVE-2023-23397 CVE-2023-38831 CVE-2021-40444 CVE-2021-42292 CVE-2021-42321 CVE-2021-34473 CVE-2020-17144 CVE-2020-0688	-	Microsoft Windows, RARLAB WinRAR, Windows Server & Microsoft Internet Explorer, Microsoft Office & Excel, Microsoft Exchange Server	
TTPs				
TA0001: Initial Access; TA0002: Execution; TA0003: Persistence; TA0004: Privilege Escalation;TA0005: Defense Evasion; TA0006: Credential Access;TA0007: Discovery; TA0009: Collection;T1583: Acquire Infrastructure; T1588.006: Vulnerabilities; T1588.005: Exploits;T1560: Archive Collected Data; T1110: Brute Force;T1140: Deobfuscate/Decode Files or Information; T1114: Email Collection;T1203: Exploitation for Client Execution;T1068: Exploitation for Privilege Escalation;T1498: Network Denial of Service;T1566.001: Spearphishing Attachment;T1566.002: Spearphishing Link;T1057: Process Discovery; T1221: Template Injection;T1204.001:Malicious Link; T1078:Valid Accounts				

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <p><u>Lazarus Group (aka Labyrinth Chollima, Guardians Of Peace, Zinc, Nickel Academy, Group 77, Hastati Group, Whois Hacking Team, Newromanic Cyber Army Team, Hidden Cobra, Appleworm, APT-C-26, Atk 3, Sectora01, ITG03, TA404, DEV-0139, Gods Apostles, Gods Disciples, UNC577, UNC2970, UNC4034, UNC4736, UNC4899, Diamond Sleet, Jade Sleet, TraderTraitor)</u></p>	North Korea	Manufacturing, Agricultural and Physical security companies	Worldwide
	MOTIVE		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	CVE-2021-44228	NineRAT, DLRAT, BottomLoader, HazyLoad	Apache Log4j2


TTPs

TA0043: Reconnaissance; TA0001: Initial Access; TA0003: Persistence; TA0004: Privilege Escalation; TA0005: Defense Evasion; TA0006: Credential Access; TA0007: Discovery; TA0011: Command and Control; T1574: Hijack Execution Flow; T1134: Access Token Manipulation; T1547: Boot or Logon Autostart: Execution; T1102: Web Service; T1082: System Information Discovery; T1003: OS Credential Dumping; T1003.005: Cached Domain Credentials; T1112: Modify Registry; T1518: Software Discovery; T1136: Create Account; T1098: Account Manipulation; T1033: System Owner/User: Discovery; T1105: Ingress Tool Transfer

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <u>Sandman</u>	Unknown	Telecommunication providers, and Government entities	The Middle East, and South Asia
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOM WARE	AFFECTED PRODUCTS
-	LuaDream, KEYPLUG (aka ELFSHELF)	-	

TTPs

TA0043: Reconnaissance; TA0042: Resource: Development; TA0001: Initial Access; TA0002: Execution; TA0005: Defense Evasion; TA0007: Discovery; TA0008: Lateral Movement; TA0009: Collection; T1190: Exploit Public-Facing Application; T1595.002: Vulnerability Scanning; T1584.004: Server; T1543: Create or Modify System Process; T1055: Process Injection; T1570: Lateral Tool Transfer; T1112: Modify Registry; T1588.001: Malware; T1007: System Service Discovery; T1560: Archive Collected Data; T1497: Virtualization/Sandbox Evasion; T1129: Shared Modules

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <u>Storm-0866 (aka Red Dev 40)</u>	China	Telecommunication providers, and Government entities	The Middle East, and South Asia
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOM WARE	AFFECTED PRODUCTS
-	LuaDream, KEYPLUG (aka ELFSHELF)	-	

TTPs

TA0043: Reconnaissance; TA0042: Resource: Development; TA0001: Initial Access; TA0002: Execution; TA0005: Defense Evasion; TA0007: Discovery; TA0008: Lateral Movement; TA0009: Collection; T1190: Exploit Public-Facing Application; T1595.002: Vulnerability Scanning; T1584.004: Server; T1543: Create or Modify System Process; T1055: Process Injection; T1570: Lateral Tool Transfer; T1112: Modify Registry; T1588.001: Malware; T1007: System Service: Discovery; T1560: Archive Collected Data; T1497: Virtualization/Sandbox Evasion; T1129: Shared Modules

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <u>TA4557</u>	Unknown	Recruiters	Philippines
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	-	More_Eggs	-


TTPs


TA0001: Initial Access; TA0002: Execution; TA0003: Persistence; TA0005: Defense Evasion; TA0007: Discovery; T1566: Phishing; T1566.001: Spearphishing: Attachment; T1566.002: Spearphishing Link; T1218: System Binary Proxy Execution; T1047: Windows Management Instrumentation; T1204: User Execution; T1204.001: Malicious Link; T1204.002: Malicious File; T1547: Boot or Logon Autostart Execution; T1497: Virtualization/Sandbox Evasion; T1070: Indicator Removal; T1070.004: File Deletion; T1622: Debugger Evasion; T1220: XSL Script Processing; T1082: System Information Discovery; T1105: Ingress Tool Transfer


NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <u>GambleForce (aka EagleStrike)</u>	Unknown	Government, Gambling, Retail, and Travel	Australia, Brazil, China, India, Indonesia, the Philippines, South Korea, Thailand and APAC region
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	CVE-2023-23752	-	Joomla!

TTPs

TA0043: Reconnaissance; TA0042: Resource: Development; TA0001: Initial Access; TA0011: Command and Control; TA0010: Exfiltration; T1595: Active Scanning; T1595.002: Vulnerability: Scanning; T1595.003: Wordlist Scanning; T1592: Gather Victim Host Information; T1592.002: Software; T1583: Acquire Infrastructure; T1583.001: Domains; T1583.004: Server; T1190: Exploit Public-Facing Application; T1071: Application Layer Protocol; T1041: Exfiltration Over C2 Channel


NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <p><u>APT 29 (aka Midnight Blizzard, Cozy Bear, The Dukes, Group 100, Yttrium, Iron Hemlock, Minidionis, CloudLook, ATK 7, ITG11, Grizzly Steppe, UNC2452, Dark Halo, SolarStorm, StellarParticle, SilverFish, Nobelium, Iron Ritual, Cloaked Ursa, BlueBravo)</u></p>	Russia	Government, Political, Diplomatic agencies, and Technology	Worldwide
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
CVE-2023-42793	GraphicalProton	JetBrains TeamCity versions prior to 2023.05.4	
TTPs			
<p>T1003 - OS Credential Dumping; T1020 - Automated Exfiltration; T1027 - Obfuscated Files or Information; T1033 - System Owner/User Discovery; T1036 - Masquerading; T1041 - Exfiltration Over C2 Channel; T1046 - Network Service Scanning; T1047 - Windows Management Instrumentation; T1049 - System Network Connections Discovery; T1053 - Scheduled Task/Job; T1055 - Process Injection; T1057 - Process Discovery; T1059 - Command and Scripting Interpreter; T1068 - Exploitation for Privilege Escalation; T1098 - Account Manipulation; T1190 - Exploit Public-Facing Application; T1203 - Exploitation for Client Execution; T1210 - Exploitation of Remote Services; T1505 - Server Software Component; T1547 - Boot or Logon Autostart Execution; T1555 - Credentials from Password Stores; T1558 - Steal or Forge Kerberos Tickets; T1562 - Impair Defenses; T1564 - Hide Artifacts; T1567 - Exfiltration Over Web Service; T1568 - Dynamic Resolution; T1572 - Protocol Tunneling; T1574 - Hijack Execution Flow; T1590 - Gather Victim Network Information; T1592 - Gather Victim Host Information; T1531 - Account Access Removal; T1140 - Deobfuscate/Decode Files or Information; T1550 - Use Alternate Authentication Material; T1195 - Supply Chain Compromise; T1102 - Web Service</p>			

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <p><u>Gaza Cybergang (aka TA402, Extreme Jackal, Molerats, Gaza Hackers Team, Aluminum Saratoga, ATK 89, TAG-CT5)</u></p>	Gaza	Manufacturing, Agricultural and Physical security companies	Middle East
	MOTIVE		
	Information theft and espionage	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	TARGETED CVEs		
TTPs			
<p>TA0043: Reconnaissance; TA0042: Resource Development; TA0001: Initial Access; TA0002: Execution; TA0005: Defense Evasion; TA0007: Discovery; TA0011: Command and Control; T1059: Command and Scripting Interpreter; T1083: File and Directory Discovery; T1082: System Information Discovery; T1204: User Execution; T1598: Phishing for Information; T1566.001: Spearphishing Attachment; T1105: Ingress Tool Transfer; T1041: Exfiltration Over C2 Channel; T1543: Create or Modify System Process; T1587: Develop Capabilities; T1587.001: Malware</p>			

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <u>OilRig (aka APT 34, Helix Kitten, Twisted Kitten, Crambus, Chrysene, Cobalt Gypsy, TA452, IRN2, ATK 40, ITG13, DEV-0861, EUROPIUM, Hazel Sandstorm, Scarred Manticore)</u>	Iran	Healthcare sector, Manufacturing company, Local government	Israel
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
-	ODAgent, OilCheck, OilBooster, SC5k downloader	-	


TTPs

TA0042: Resource Development; TA0002: Execution; TA0005: Defense Evasion; TA0007: Discovery; TA0009: Collection; TA0011: Command and Control; TA0010: Exfiltration; T1583: Acquire Infrastructure; T1583.001: Domains; T1583.004: Server; T1583.006: Web Services; T1587: Develop Capabilities; T1587.001: Malware; T1585: Establish Accounts; T1585.003: Cloud Accounts; T1585.002: Email Accounts; T1608: Stage Capabilities; T1059: Command and Scripting Interpreter; T1059.003: Windows Command Shell; T1106: Native API; T1140: Deobfuscate/Decode Files or Information; T1480: Execution Guardrails; T1564: Hide Artifacts; T1564.003: Hidden Window; T1070: Indicator Removal; T1070.004: File Deletion; T1202: Indirect Command: Execution; T1036: Masquerading; T1036.005: Match Legitimate Name or Location; T1027: Obfuscated Files or Information; T1082: System Information Discovery; T1033: System Owner/User Discovery; T1560: Archive Collected Data; T1560.003 : Archive via Custom Method; T1074: Data Staged; T1074.001: Local Data Staging; T1132: Data Encoding; T1132.001: Standard Encoding; T1573: Encrypted Channel; T1573.001: Symmetric Cryptography; T1008: Fallback Channels; T1105: Ingress Tool Transfer; T1102: Web Service; T1102.002: Bidirectional Communication; T1020: Automated Exfiltration; T1041: Exfiltration Over C2 Channel; T1567: Exfiltration Over Web Service; T1567.002: Exfiltration to Cloud Storage

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <u>TA577</u>	Unknown	-	Worldwide
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
-	PikaBot	-	


TTPs

TA0001: Initial Access; TA0002: Execution; TA0005: Defense Evasion; TA0042: Resource Development; T1583: Acquire Infrastructure; T1583.008: Malvertising; T1566: Phishing; T1566.002: Spearphishing Link; T1204.002: Malicious File; T1204: User Execution; T1036: Masquerading; T1059.007: JavaScript; T1059: Command and Scripting Interpreter ; T1218.011: Rundll32; T1218: System Binary Proxy Execution; T1218.007: Msiexec

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <u>MuddyWater (aka Seedworm, TEMP.Zagros, Static Kitten, Mercury, TA450, Cobalt Ulster, ATK 51, T-APT-14, ITG17, Mango Sandstorm)</u>	Iran	Telecommunications	Egypt, Sudan, and Tanzania
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
-	MuddyC2Go, Venom Proxy, SimpleHelp	-	


TTPs

TA0001: Initial Access; TA0002: Execution; TA0003: Persistence; TA0005: Defense Evasion; TA0009: Collection; TA0011: Command and Control; T1059: Command and Scripting Interpreter; T1059.001: PowerShell; T1047: Windows Management Instrumentation; T1189: Drive-by Compromise; T1105: Ingress Tool Transfer; T1056: Input Capture; T1566: Phishing; T1053: Scheduled Task/Job; T1053.005: Scheduled Task; T1027: Obfuscated Files or Information; T1574: Hijack Execution Flow; T1574.002: DLL Side-Loading

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES	
 <p><u>Cloud Atlas (aka Inception Framework, Oxygen, ATK 116, Blue Odin, The Rocra)</u></p>	Russia	Russian agro-industrial enterprise and a state-owned research company	Afghanistan, Armenia, Austria, Azerbaijan, Belarus, Belgium, Brazil, Congo, Cyprus, France, Georgia, Germany, Greece, India, Indonesia, Iran, Italy, Jordan, Kazakhstan, Kenya, Kyrgyzstan, Lebanon, Lithuania, Malaysia, Moldova, Morocco, Mozambique, Oman, Pakistan, Paraguay, Portugal, Qatar, Romania, Russia, Saudi Arabia, South Africa, Suriname, Switzerland, Tajikistan, Tanzania, Turkey, Turkmenistan, Uganda, Ukraine, UAE, USA, Uzbekistan, Venezuela, Vietnam	
	MOTIVE			Information theft and espionage
	TARGETED CVEs	ASSOCIATED ATTACKS/RANS OMWARE	AFFECTED PRODUCTS	
	CVE-2017-11882	-	Microsoft Office	

TTPs

TA0043: Reconnaissance; TA0042: Resource Development; TA0001: Initial Access; TA0002: Execution; TA0003: Persistence; TA0004: Privilege Escalation; TA0005: Defense Evasion; TA0007: Discovery; TA0011: Command and Control; T1589: Gather Victim Identity Information; T1589.002: Email Addresses; T1583: Acquire Infrastructure; T1583.001: Domains; T1585: Establish Accounts; T1585.002: Email Accounts; T1587: Develop Capabilities; T1587.001: Malware; T1587.004: Exploits; T1608: Stage Capabilities; T1608.001: Upload Malware; T1566: Phishing; T1566.001: Spearphishing Attachment; T1559: Inter-Process Communication; T1559.001: Component Object Model; T1203: Exploitation for Client Execution; T1204: User Execution; T1204.002: Malicious File; T1059: Command and Scripting Interpreter; T1059.005: Visual Basic; T1547: Boot or Logon Autostart Execution; T1547.001: Registry Run Keys / Startup Folder; T1027: Obfuscated Files or Information; T1140: Deobfuscate/Decode Files or Information; T1070: Indicator Removal; T1070.004: File Deletion; T1564: Hide Artifacts; T1564.004: NTFS File Attributes; T1221: Template Injection; T1218: System Binary Proxy Execution; T1218.005: Mshta; T1082: System Information Discovery; T1071: Application Layer Protocol; T1071.001: Web Protocols; T1105: Ingress Tool Transfer

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <u>UAC-0099</u>	-	-	Ukraine
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	CVE-2023-38831	LONEPAGE	WinRAR


TTPs

TA0042: Resource Development; TA0001: Initial Access; TA0002: Execution; TA0003: Persistence; TA0004: Privilege Escalation; TA0005: Defense Evasion; TA0009: Collection; TA0010: Exfiltration; TA0011: Command and Control; T1547: Boot or Logon Autostart Execution; T1053: Scheduled Task/Job; T1059: Command and Scripting Interpreter; T1059.001: PowerShell; T1059.005: Visual Basic; T1560: Archive Collected Data; T1106: Native API; T1176: Browser Extensions; T1566: Phishing; T1566.001: Spearphishing Attachment; T1036: Masquerading; T1041: Exfiltration Over C2 Channel; T1588: Obtain Capabilities; T1588.006: Vulnerabilities; T1071: Application Layer Protocol; T1071.001: Web Protocols;

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <u>UNC4841</u>	China	-	-
	MOTIVE		
	Information theft and espionage		
	TARGETED CVEs	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	CVE-2023-7102 CVE-2023-7101	SEASPY and SALTWATER	Barracuda Email Security Gateway (ESG) Appliance, Spreadsheet::Parse Excel

TTPs

TA0002: Execution; TA0042: Resource Development; T1588: Obtain Capabilities; T1588.006: Vulnerabilities; T1204.002: Malicious File; T1203: Exploitation for Client Execution; T1588.005: Exploits; T1659: Content Injection

NAME	ORIGIN	TARGETED INDUSTRIES	TARGETED COUNTRIES
 <p><u>Kimsuky (aka Velvet Chollima, Thallium, Black Banshee, SharpTongue, ITG16, TA406, APT 43, ARCHIPELAGO, Emerald Sleet)</u></p>	North Korea	Defense, Education, Energy, Government, Healthcare, Manufacturing, Think Tanks and Ministry of Unification, Sejong Institute and Korea Institute for Defense Analyses	Worldwide
	MOTIVE		
	Information theft and espionage	ASSOCIATED ATTACKS/RANSOMWARE	AFFECTED PRODUCTS
	TARGETED CVEs	AppleSeed, AlphaSeed, Meterpreter, TinyNuke	-

TTPs

TA0001: Initial Access; TA0002: Execution; TA0003: Persistence; TA0004: Privilege Escalation; TA0005: Defense Evasion; TA0008: Lateral Movement; TA0009: Collection; TA0011: Command and Control; T1547: Boot or Logon Autostart Execution; T1056: Input Capture; T1036: Masquerading; T1543: Create or Modify System Process; T1071: Application Layer Protocol; T1102: Web Service; T1113: Screen Capture; T1059: Command and Scripting Interpreter; T1059.007: JavaScript; T1021: Remote Services; T1566: Phishing; T1566.002: Spearphishing Link

MITRE ATT&CK TTPS

Tactic	Technique	Sub-technique
TA0043: Reconnaissance	T1598: Phishing for Information	T1598.002: Spearphishing Attachment
	T1592: Gather Victim Host Information	
	T1593: Search Open Websites/Domains	
	T1595: Active Scanning	T1595.002: Vulnerability Scanning
	T1590: Gather Victim Network Information	T1590.004: Network Topology
	T1592: Gather Victim Host Information	T1592.002: Software
	T1590: Gather Victim Network Information	
	T1595: Active Scanning	T1595.003: Wordlist Scanning
	T1589: Gather Victim Identity Information	T1589.002: Email Addresses
TA0042: Resource Development	T1608: Stage Capabilities	T1608.001: Upload Malware T1608.005: Link Target
	T1584: Compromise Infrastructure	T1584.004: Server
	T1585: Establish Accounts	T1585.001: Social Media Accounts T1585.003: Cloud Accounts T1585.002: Email Accounts
	T1587: Develop Capabilities	T1587.001: Malware T1587.004: Exploits
	T1583: Acquire Infrastructure	T1583.001: Domains T1583.002: DNS Server T1583.005: Botnet T1583.008: Malvertising T1583.004: Server T1583.006: Web Services
	T1588: Obtain Capabilities	T1588.006: Vulnerabilities T1588.005: Exploits T1588.002: Tool T1588.001: Malware
	T1586: Compromise Accounts	T1586.002: Email Accounts
	T1078: Valid Accounts	T1078.002: Domain Accounts
	T1659: Content Injection	
	T1133: External Remote Services	
	T1189: Drive-by Compromise	
	T1190: Exploit Public-Facing Application	
	T1566: Phishing	T1566.001: Spearphishing Attachment T1566.002: Spearphishing Link
	T1106: Native API	
	T1059: Command and Scripting Interpreter	T1059.001: PowerShell T1059.003: Windows Command Shell T1059.004: Unix Shell T1059.005: Visual Basic T1059.007: JavaScript
T1053: Scheduled Task/Job	T1053.005: Scheduled Task	

Tactic	Technique	Sub-technique
TA0002: Execution	T1047: Windows Management Instrumentation	
	T1203: Exploitation for Client Execution	
	T1129: Shared Modules	
	T1569: System Services	T1569.002: Service Execution
	T1204: User Execution	T1204.002: Malicious File
		T1204.001: Malicious Link
T1559: Inter-Process Communication	T1559.001: Component Object Model	
	T1559.002: Dynamic Data Exchange	
TA0003: Persistence	T1053: Scheduled Task/Job	T1053.005: Scheduled Task
	T1547: Boot or Logon Autostart Execution	T1547.001: Registry Run Keys / Startup Folder
	T1574: Hijack Execution Flow	T1574.002: DLL Side-Loading
	T1078: Valid Accounts	T1078.002: Domain Accounts
	T1098: Account Manipulation	
	T1176: Browser Extensions	
	T1133: External Remote Services	
	T1136.002: Create Account	T1136.002: Domain Account
	T1505: Server Software Component	T1505.003: Web Shell
	T1556: Modify Authentication Process	T1556.008: Network Provider DLL
	T1137: Office Application Startup	T1137.001: Office Template Macros
	T1543: Create or Modify System Process	T1543.003: Windows Service
		T1543.001: Launch Agent
	T1543.004: Launch Daemon	
TA0004: Privilege Escalation	T1098: Account Manipulation	
	T1543: Create or Modify System Process	T1543.003: Windows Service
		T1543.001: Launch Agent
		T1543.004: Launch Daemon
	T1547: Boot or Logon Autostart Execution	T1547.001: Registry Run Keys / Startup Folder
	T1053: Scheduled Task/Job	T1053.005: Scheduled Task
	T1055: Process Injection	
	T1134: Access Token Manipulation	
	T1068: Exploitation for Privilege Escalation	
	T1574: Hijack Execution Flow	T1574.002: DLL Side-Loading
T1078: Valid Accounts	T1078.002: Domain Accounts	
T1484: Domain Policy Modification	T1484.001: Group Policy Modification	
TA0005: Defense Evasion	T1070: Indicator Removal	T1070.001: Clear Windows Event Logs
	T1036: Masquerading	T1036.007: Double File Extension
		T1036.008: Masquerade File Type
		T1036.005: Match Legitimate Name or Location
	T1070: Indicator Removal	T1070.004: File Deletion
	T1218: System Binary Proxy Execution	T1218.011: Rundll32
	T1574: Hijack Execution Flow	T1574.002: DLL Side-Loading
T1027: Obfuscated Files or Information	T1027.009: Embedded Payloads	

Tactic	Technique	Sub-technique
TA0005: Defense Evasion	T1484: Domain Policy Modification	T1484.001: Group Policy Modification
	T1562: Impair Defenses	
	T1221: Template Injection	
	T1202: Indirect Command Execution	
	T1480: Execution Guardrails	
	T1218: System Binary Proxy Execution	T1218.007: Msiexec T1218.005: Mshta
	T1070: Indicator Removal	T1070.006: Timestamp
	T1078: Valid Accounts	T1078.002: Domain Accounts
	T1556: Modify Authentication Process	T1556.008: Network Provider DLL
	T1600: Weaken Encryption	
	T1564: Hide Artifacts	T1564.002: Hidden Users
	T1622: Debugger Evasion	
	T1550: Use Alternate Authentication Material	
	T1014: Rootkit	
	T1134: Access Token Manipulation	
	T1220: XSL Script Processing	
	TA0006: Credential Access	T1003: OS Credential Dumping
T1110: Brute Force		
T1552: Unsecured Credentials		
T1539: Steal Web Session Cookie		
T1040: Network Sniffing		
T1056: Input Capture		T1056.001: Keylogging
T1556: Modify Authentication Process		T1556.008: Network Provider DLL
T1555: Credentials from Password Stores		T1555.003: Credentials from Web Browsers T1555.004: Windows Credential Manager
T1558: Steal or Forge Kerberos Tickets		T1558.001: Golden Ticket
T1606: Forge Web Credentials		
T1557: Adversary-in-the-Middle		
TA0007: Discovery	T1018: Remote System Discovery	
	T1082: System Information Discovery	
	T1083: File and Directory Discovery	
	T1057: Process Discovery	
	T1046: Network Service Discovery	
	T1087: Account Discovery	
	T1016: System Network Configuration Discovery	
	T1482: Domain Trust Discovery	
	T1518: Software Discovery	
	T1135: Network Share Discovery	
	T1217: Browser Information Discovery	
	T1622: Debugger Evasion	

Tactic	Technique	Sub-technique
TA0007: Discovery	T1007: System Service Discovery	
	T1497: Virtualization/Sandbox Evasion	
	T1040: Network Sniffing	
	T1518: Software Discovery	T1518.001: Security Software Discovery
TA0008: Lateral Movement	T1021: Remote Services	T1021.006: Windows Remote Management
		T1021.002: SMB/Windows Admin Shares
	T1570: Lateral Tool Transfer	
	T1210: Exploitation of Remote Services	
	T1550: Use Alternate Authentication Material	T1550.004: Web Session Cookie
TA0009: Collection	T1056: Input Capture	T1056.001: Keylogging
	T1560: Archive Collected Data	T1560.001: Archive via Utility
	T1074: Data Staged	T1074.001: Local Data Staging
	T1114: Email Collection	T1114.002: Remote Email Collection
		T1114.003: Email Forwarding Rule
	T1005: Data from Local System	
	T1119: Automated Collection	
	T1557: Adversary-in-the-Middle	
TA0011: Command and Control	T1071: Application Layer Protocol	T1071.001: Web Protocols
		T1071.002: File Transfer Protocols
		T1071.004: DNS
	T1659: Content Injection	
	T1105: Ingress Tool Transfer	
	T1104: Multi-Stage Channels	
	T1572: Protocol Tunneling	
	T1132: Data Encoding	T1132.001: Standard Encoding
	T1573: Encrypted Channel	T1573.001: Symmetric Cryptography
	T1102: Web Service	T1102.002: Bidirectional Communication
	T1568: Dynamic Resolution	
T1008: Fallback Channels		
T1571: Non-Standard Port		
TA0010: Exfiltration	T1030: Data Transfer Size Limits	
	T1041: Exfiltration Over C2 Channel	
	T1020: Automated Exfiltration	
	T1029: Scheduled Transfer	
	T1567: Exfiltration Over Web Service	T1567.002: Exfiltration to Cloud Storage
T1048: Exfiltration Over Alternative Protocol		
TA0040: Impact	T1657: Financial Theft	
	T1486: Data Encrypted for Impact	
	T1490: Inhibit System Recovery	
	T1498: Network Denial of Service	
	T1565: Data Manipulation	T1565.002: Transmitted Data Manipulation
T1489: Service Stop		

Top 5 Takeaways

#1

In **December**, there were **nineteen zero-day vulnerabilities**, with the **'Five Celebrity Vulnerabilities'** taking center stage. These featured flaws such as **FOLLINA**, **PROXYHELL**, **LOG4J**, **ProxyNotShell**, and **ProxyLogon**.

#2

Throughout the month, ransomware strains including **Cactus**, **Crucio**, **BlueSky**, **Play**, and **Mallox** actively targeted victims.

#3

Numerous malware families have been observed targeting victims in the wild. These include **NineRAT**, **DLRAT**, **BottomLoader**, **HazyLoad**, and **LockBit Ransomware**

#4

There were a total of **18 active adversaries** identified across multiple campaigns. Their focus was directed toward the following key industries: **Government**, **Telecommunications**, **Healthcare**, and **Manufacturing**

#5

Finally, **APT28**, renowned for sophisticated phishing activities, exploited **nine vulnerabilities** for initial access. Their primary objectives included extracting user credentials and initiating subsequent malicious activities.

Recommendations

Security Teams

This digest can be used as a guide to help security teams prioritize the **33 significant vulnerabilities** and block the indicators related to the **18 active threat actors**, **46 active malware**, and **251 potential MITRE TTPs**.

Uni5 Users

This is an actionable threat digest for HivePro Uni5 customers, who can get comprehensive insights into their threat exposure and take action easily through the HivePro Uni5 dashboard by:

- Running a scan to discover the assets impacted by the **33 significant vulnerabilities**
- Testing the efficacy of their security controls by simulating the attacks related to **active threat actors**, **active malware**, and **potential MITRE TTPs** in Breach and Attack Simulation(BAS).

Hive Pro Threat Advisories (DECEMBER 2023)

MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY		SUNDAY	
									1		2		3
	4		5		6		7		8		9		10
													
	11		12		13		14		15		16		17
													
	18		19		20		21		22		23		24
													
	25		26		27		28		29		30		31
													

Click on any of the icons to get directed to the advisory

	Red Vulnerability Report		Amber Attack Report
	Amber Vulnerability Report		Red Actor Report
	Green Vulnerability Report		Amber Actor Report
	Red Attack Report		

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 have been branded with catchy names and logos due to their profound and multifaceted impact. These vulnerabilities provide malicious actors with opportunities to breach sensitive systems, potentially resulting in unauthorized access and the compromise of critical information.

Social engineering: is an attack that relies on human interaction to persuade people into compromising security. It involves various strategies aimed at extracting specific information or performing illicit activities from a target.

Supply chain attack: Also known as a value-chain or third-party attack, occurs when an outside partner or provider with access to your systems and data infiltrates your system. The purpose is to gain access to source codes, development processes, or update mechanisms in order to distribute malware by infecting legitimate programs.

Eavesdropping: Often known as sniffing or spying, is a significant risk in cybersecurity. Passwords, credit card information, and other sensitive data are easily stolen during these attacks as they are transmitted from one device to another. This type of network attack often occurs when unsecured networks, such as public Wi-Fi connections or shared electronic devices, are used.

Glossary:

CISA KEV - Cybersecurity & Infrastructure Security Agency Known Exploited Vulnerabilities

CVE - Common Vulnerabilities and Exposures

CPE - Common Platform Enumeration

CWE - Common Weakness Enumeration

✂ Indicators of Compromise (IOCs)

Attack Name	TYPE	VALUE
<u>Cactus</u>	SHA256	0933f23c466188e0a7c6fab661bdb8487cf7028c5cec557efb75fde9 879a6af8, 09e7e3f23bac60ce7a4024ed7972981865f030c3edba9cda760d055 f0a46e448, 0a8088e2ba539541f476836c6f4e5812c4ae5c52133801faa1bc380 6a4ade683, 1ea49714b2ff515922e3b606da7a9f01732b207a877bcdd1908f733 eb3c98af3, 21d7ad955dbc5732be90f3d6dbb4e161ef9cf511a7989e72c4ea1c5 e44744167, 4b0a5d6a176317437978211a423a7c1cdf832baa7984bba09aeeb5 a1e4d07aa3, 509a533ade43406eb50fa9cb8984b2e10d008ad0ea8c22d0652f3ee 101125bb7, 6642d79f4d1044b756e2c3221ace37a71b4a671e18847f2940e2ea3 49dc6cb67, 69b6b447ce63c98acc9569fdcc3780ced1e22ebd50c5cad9ee1ea7a 4d42e62cc, 70a580e734c2331098fa3ecf3f1c928e17ddb92f99f75956c3f805b0 65222685, 729f0ff446c0aa04fdae3529ef02cf552e63782e841c24f3c4cb481b4 b947859, 78c16de9fc07f1d0375a093903f86583a4e32037a7da8aa2f90ecb15 c4862c17, 7a8c7166ebdae96e7adceaf50c064bf1cf85d3c360a6ff513414dc30 78a6aa54, 9ec6d3bc07743d96b723174379620dd56c167c58a1e04dbfb7a392 319647441a, a5296d07dabb3d7b53fce4cf803190bfa57e062abeb11a6d801250a cb7005c5f, c52ad663ff29e146de6b7b20d834304202de7120e93a93de1de1cb 1d56190bfd, d1db583aad156dc4edd093a64aade4180a77477cb247347e3fc97ca e401d061f, d455264bbb253a659149ba186f872920d83e3c6a0cab13965aa52a 6b49406019, d7429c7ecea552403d8e9b420578f954f5bf5407996afaa36db723a 0c070c4de, e9ac9436b5d61dd85e87e0fcd11b729a91466fe2f55f1f32501202d 9ed98d562

Attack Name	TYPE	VALUE
SugarGh0st RAT	IPv4	103[.]148[.]245[.]235, 103[.]108[.]67[.]191
	Hostname	account[.]drive-google-com[.]tk, login[.]drive-google-com[.]tk
	SHA256	8584094f79fce97321ee82ca5da41b6830ecc6a0921bcaddb8d d337827cd7d1a, 3436135bb3839521e7712882f0f6548aff78db66a1064408c49 f820a0b85d980, c758eed6660786097b63ac6748236b5b6084783703ea7ee21 11e8f0bcaa3652e, 6dff111b6adc9e33bed20eae99bec779f1c29dd55895a71125c fbe3c90950eb2, 7c87451261dfce64fda987eb395694b5330fd958466c46c9314 40cd9dc227505, ddac61f918ed87b49ef15d05873e7f52b919758aef713145f6a 7d538c714fa2e, f3ea4611c72d57eabf381d5639c3c8d1840cb005ed811f30384 10fb2e04978c1, 9d9a0af09fc9065bacabf1a193cad4386b5e8e5101639e07efa 82992b723f3b0, 5ad182c913f0b5cb6a34126137c335110d4c9472f5c745cb7a4 38d108b03b27c, 38c815729f34aef6af531edf3f0c3f09635686dbe7e5db5cb97e ca5b2b5b7712, adb4eb33213fa81c8b6cc013a6f4a43fa8b70eb8027433cf433 9b532cb6e84cf, 2e543adb701afd40affcb4c51bd8246398b0210bee641ca9aef cca893c9e4a5, 7cacdc84a0d690564c8471a4f58ab192ef7d9091ab0809933f6 16010bbf6846a, 66982ebd5ebb75633723c7057a1e948ac3aafe3ff808397eb0c 55c853c82f9e6, 21f19d87d2169c82efd76ddb1baa024a1e59b93f82d28f276de 853fc3ef8b20e, 362fde3362e307af3787b9bf0b5c71f87b659a3217e054c4d0a cea8b9e6d74b0, ee5982a71268c84a5c062095ce135780b8c2ffb1f266c279917 3fb0f7bfdd33e, 9783c0eee31ce6c5f795ecf387025af5d55208ff2713c470af20 42721ab38606, 410d7dc973d188cd0d962a59f48deb1cfc73adf37857765e901 94f6e878d4488, bd0a1efe07fcb4af4bec1b2881a0711f0be34044680ad8cff958 a68a70d4a914, ff0f28f96bbb6c80fc3823fe71d5e07e1a05b06986e82a2fbe32 4d68ba5ab2ea

Attack Name	TYPE	VALUE
<u>Gh0st RAT</u>	SHA256	83fbbd31e43ad25a8921c98d97b287ebc8902451f7647c2266e5f0688471e8b6
<u>Crucio Ransomware</u>	MD5	BA284A4B508A7ABD8070A427386E93E0
	SHA1	66AE21571FAEE1E258549078144325DC9DD60303
	SHA256	440b5385d3838e3f6bc21220caa83b65cd5f3618daea676f271c3671650ce9a3
<u>Agent Racoan</u>	SHA256	4351911f266eea8e62da380151a54d5c3fbbc7b08502f28d3224f689f55bffba, e0748ce315037253f278f7f8f2820c7dd8827a93b6d22d37dafc287c934083c4, baed169ce874f6fe721e0d32128484b3048e9bf58b2c75db88d1a8b7d6bb938d, 3a2d0e5e4bfd6db9c45f094a638d1f1b9d07110b9f6eb8874b75d968401ad69c, 4351911f266eea8e62da380151a54d5c3fbbc7b08502f28d3224f689f55bffba, 354048e6006ec9625e3e5e3056790afe018e70da916c2c1a9cb4499f83888a47, dee7321085737da53646b1f2d58838ece97c81e3f2319a29f7629d62395dbfd1
	File Path	c:/windows/temp/onedriveupdater.exe, c:/windows/system32/msmdlb.exe, c:/windows/temp/onedriveupdater.exe, c:/program files (x86)/google/update/googleupdate.exe, c:\windows\temp\mslb.ps1
<u>Ntospy</u>	SHA256	e30f8596f1bed8254cbe1ac7a75839f5fe6c332f45ebabff88aadbce3938a19, 1a4301019bdf42e7b2df801e04066a738d184deb22afcad9542127b0a31d5cfa, e7682a61b6c5b0487593f880a09d6123f18f8c6da9c13ed43b43866960b7aa8e, 58e87c0d9c9b190d1e6e44eae64e9a66de93d8de6cbd005e2562798462d05b45, 7eb901a6dbf41bcb2e0cdccb67c53ab722604d6c985317cb2b479f4c4de7cf90, f45ea12579f636026d29009190221864f432dbc3e26e73d8f3ab7835fa595b86, bcd2bdea2bfecd09e258b8777e3825c4a1d98af220e7b045ee7b6c30bf19d6df
<u>BlueSky Ransomware</u>	MD5	7b68bc3dd393c2e5273f180e361f178a
	SHA1	07610f11d3b8ccb7b60cc8ad033dda6c7d3940c4
	SHA256	e6b413c8b8b2dfc4d8879acf85981a64020f094dcff27aa95f500f4be600bc67, b7147a76c6695b750a84de55d4569f71f694b33aeefeef5daa09318ebabd9a24,

Attack Name	TYPE	VALUE
<p>BlueSky Ransomware</p>	<p>SHA256</p>	<p>5cda02a670505a523a18df8cbb216b77dc3f69f3ec22d7ee90f1d1da e1eddf10, 40bf3b2f344995352d9a9703c4e0fb12a752c105b9fb133d6cce7e9 e5e99df4a, 2ee6dfbfb2afd7442c9f2212eb142876698851c3ffb552ee420c0281 e35a836e, e32fc8ad818d2ef217aaa4f467c7a8af1dad88fdd5166186f732b2e2 33c90148, 11e409f8b0799cd64c53d40ff10cbc639a1f85cd5ba6544fe42689a9 6302cc2e, c72e5ff7858844e335fafdd54395be85d708cfb9a91ade6f398fc0f1c 9b50919, 38478119e3344e735cf60442e7528db63046a543a5f422db8f946b2 c2693d19a, 4fd0c22d92f8bf7a062497867a802bdbab4c802ac10c8b529fe7f896 e7517492, 1b44b3e401f26547ee820bc0fe90904c55ec59d74e4385fe5bdd182 6738fa9e6, 22a020af0e4be83dea45c0700d065d9ae64630748c02b58397f6c6d 91c3efb0d, 4c752131e47710d47dd0084a22ac03cd5924eb617e97cf895159ae 03d86f561e, 6e1057e52d296655f932b8a9da7302b31379ce5b9ba4cc32ed3af4c 15c7adcf0, 905de085d2a9ebf553e3325eb9c878b9855f85c10f77e80c4651905 6658d6bab, d401be3ec0699cfdc1a16a9243ebc25181385e428122b0b1a283b7 a8d47dd0bc, 99828018b3af892707985f6a3f8c3d34ae1d1575fdefd7a05f1e6861 181ec1b2, afccc93c4122d7e63543fc342a4ba9319c4969797c0c3ed32b944b0 7c83aea16, 2176a3cdf5db56f5dcaab475f362d459d4b2b3dafc3c146caaf310000 9d0c8a5f, 11ae63b3a7caac549374aaa3c7fea9cba7f23ae83118745fee0a4157 f61156f2, 18329783ad51783d679aec6111ca171eb1176f8fa866949a5267009 c14605aa6, 9e302bb7d1031c0b2a4ad6ec955e7d2c0ab9c0d18d56132029c4c6 198b91384f, 8dfd7ee796dd98daefbc1458a34f0460ebd8508df319d44ab48f4cbc 579a7f09, baaa0e49398ef681ef71e84a7a86dd2b78f36ac83785e0d9a061067 ebaf8b006, c0514cd580275b54f5b1d69086c9f415e7afb805479bfea50251e82 dc2e60e12, 376fdb43699c90fd6cca2706c14827791137b3a753c7368a202de63 f588fdb2f, 94733075d7ccdc9d770f71200e11f84c00b8a529182b504fb997e9b 331470f9a,</p>

Attack Name	TYPE	VALUE
<u>BlueSky Ransomware</u>	SHA256	c3d5248230230e33565c04019801892174a6e5d8f688d61002e369b0b9e441ff, 311dc38f619f40f06bee5157119ab4b93684924f53e4ff2da34412f9dac111a4, 3e035f2d7d30869ce53171ef5a0f761bfb9c14d94d9fe6da385e20b8d96dc2fb, 840af927adbfdeb7070e1cf73ed195cf48c8d5f35b6de12f58b73898d7056d3d, 47971a5a44f487f341d482fdb91271a2aea4d3eee7191c69568690d2fe9f251, 91795d3e8925e647444eb383e52cdc5046db10fa320afc817fab29b085e7d76f, 06ad123df8f3fcc6ca4785c0b52fc57e6e54f44e403fca2fdbd339580d3c53b0, d6386b2747335f7b0d13b1f69d995944ad8e9b71e09b036dbc0b907e583d857a, c75748dc544629a8a5d08c0d8ba7fda3508a3efdaed905ad800ffddbc8d3b8df, b5b105751a2bf965a6b78eeff100fe4c75282ad6f37f98b9adcd15d8c64283ec, 2280898cb29faf1785e782596d8029cb471537ec38352e5c17cc263f1f52b8ef, e75717be1633b5e3602827dc3b5788ff691dd325b0eddd2d0d9ddce29de364f, 1c99798c7aaabba3c0af8e75b7af7bfde290448b7570c7fac43e02f2690e1248, b39fcf37d9019cc92127ee82c03df5e37aa8238cd76cc6eca2e3d1e7e977fc26, D4f4069b1c40a5b27ba0bc15c09dceb7035d054a022bb5d558850edfba0b9534
<u>Tor2Mine</u>	MD5	9e88c287eb376f3c319a5cb13f980d36, 08bdf000031bbad1a836381f73adace5
	SHA1	3dff4ae3c421c9143978f8fc9499dca4aed0eac5, 501af977080d56a55ff0aeba66b58e7f3d1404ea
	SHA256	f955eeb3a464685eaac96744964134e49e849a03fc910454faaff2109c378b0b, 74b6d14e35ff51fe47e169e76b4732b9f157cd7e537a2ca587c58dbdb15c624f
<u>DanaBot</u>	SHA256	8ffd4fd0e29d6888e9eaf78a6f698436f8a4477cdba8b6271015f7b012d1f8e0, 67540a00b6fa011944ba222eb8b83f877aa75328204dbd02b242ad9a678d1a83, e7351978a0011be925a7831e37a82750c51b2ef5e913b42d69b3d509fe8e6b8a, 2cf2d35802c12f09cc2700baf30816c6155a6095651dad6bfff440d1c772e0d9, 7a3996fdfa138ac0d4692820c82e1ae23fd5874c8c7bd89c11b56d5cd31480dd, a41d5274599dfe60823b477ea0dc20b9c8e9b398d8b287701f8cb02ea605ad84,

Attack Name	TYPE	VALUE
<u>DanaBot</u>	SHA256	6eba004a9ea73c873bd66739431db34ebc3eb3928b9ecf0b89132ad473ef20b3
<u>AsyncRAT</u>	IPv4	185[.]81[.]157[.]242
	MD5	0a80a592d407a2a8b8b318286dc30769, 61b7507a6814e81cda6b57850f9f31da, 750dc2354b0454eafd66900687a0f7d6, 790562cefbb2c6b9d890b6d2b4adc548, a31191ca8fe50b0a70eb48b82c4d6f39, ac12d457d3ee177af8824cdc1de47f2a, b98e76816350a6a527fc311dae62b85e, c09266666ee71ade24e0e5f889cc8199
	SHA1	316b99a2bf664ccd94eb050005975c52806d2163, 3b10e9a10fc90e2a0a28f13a84c9b58eeb382dfc, 921bd5cb08b5c6a77a28e2864417bb8cdefafbf0
	SHA256	621cd690c8225dc2471fa2d94f6b568d4212baddc1a05a96a0edc9a1bbe6f29c, 70029e8693a7a5608b442b1944a3f6c11fe2ff1949f26e3f6178472b87837d75, a0064bdcf92b7c1a55a8e88fd4ecb38d27c4d602f7bf5feb18c2304d775d7387
	Hostname	drippmedsot[.]mywire[.]org
	URL	hxxp://drippmedsot[.]mywire[.]org:6606, hxxp://drippmedsot[.]mywire[.]org:7707, hxxp://drippmedsot[.]mywire[.]org:8808, hxxp://za[.]com/Order_ed333c91f0fd[.]zip
	Hostname	drippmedsot[.]mywire[.]org
<u>KrasueRAT</u>	IPv4	128.199.226[.]11
	MD5	100a5f3875e430f6de03d99752fbb6a7, 5055925b5bcd715d5b70b57fbedada66b
	SHA1	051bc3273a20a53d730a3beaff2fadcd38d6bb85, eddb4476ca610f3c5e895f4811c9744704552d2f
	SHA256	38ba7790697da0a736c80fd9a04731b8b0bac675cca065cfd42a56dde644e353, 3e37c7b65c1e46b2eb132f98f65c711b4169c6caeeaec99abbda122c0c4a59, 4428d7bd7ae613ff68d3b1b8e80d564e2f69208695f7ab6e5fdb6946cc46b5e1, 8a58dce7b57411441ac1fbff3062f5eb43a432304b2ba34ead60e9dd4dc94831, 902013bc59be545fb70407e8883717453fb423a7a7209e119f112ff6771e44cc, 97f08424b14594a5a39d214bb97823690f1086c78fd877558761afe0a032b772,

Attack Name	TYPE	VALUE
<u>KrasueRAT</u>	SHA256	afbc79dfc4c7c4fd9b71b5fea23ef12adf0b84b1af22a993ecf91f3d829967a4, b6db6702ca85bc80599d7f1d8b1a9b6dd56a8e87c55fc831dc9c689e54b8205d, c9552ba602d204571b9f98bd16f60b6f4534b3ad32b4fc8b3b4ab79f2bf371e5, e0748b32d0569dfafef6a8ffd3259edc6785902e73434e4b914e68fea86e6632, Ed38a61a6b7af436120465d352baa4cdf4ed8f01a7db7245b6254353e52f818f
<u>XorDdos Trojan</u>	SHA256	ce0f1914e0f0748f85ecc18d8470de2a0b2b60be7eaab7a459899f77993e82e6, 664fd170b1d07e372b3daa91aab78a8151d3f0b0361a2b3157b405314dd219a2, c0b0225201fd3a4c08245e58bbb4b844e0d3426e89b9ac3fc34db37d994fb182, 44046ce4a3a47b4d22ac7697817bfc16e18d835a33f0898c3e4df359c33d158c, 2154547c69bf8bee7f296bd8ce56ffa4115da65c2308e9fc6d5079b2eb9dec93, c9bd6d01eb7258fef88ec5c9276431c1db45f063b316f83943e45b6a40a76783, 4616bc3ba5c245946819c55db573b552ba1c0cc5e0c54c433ffb1824452fc609, a40d947d6a1d92c2789968ce0d2e6eb1734e248e2d30828c61a41f4ac840e8a0, 311c93575efd4eeeb9c6674d0ab8de263b72a8fb060d04450dacc78ec095151
<u>MrAnon Stealer</u>	SHA256	29ca95ce3eca818872a7ad47e4fafa3f9582836e0b24c5a6486df76397344521, 075e40be20b4bc5826aa0b031c0ba8355711c66c947bbaf926b92edb2844cb0, 48e09b8043c0d5dfc2047b573112ead889b112108507d400d2ce3db18987f6c9, 0efba3964f4b760965e94b4d1a597e6cd16241b8c8bf77a664d6216d1420b312, 8a8c9acf09c84ab5ea4c098eace93888a88b82a1485255073c93ce6080d05ec7, 96ec8ef2338d36b7122a76b0398d97e8d0ed55c85e31649ea00e57d6b1f53628, 8b71525ca378463784ce2d81a8371714580c58f0d305a2aa4630dc964c8c0ee0, 45ee224e571d0fd3a72af1d7a7718e61a1aad03b449cf85377411d51c135bb22

Attack Name	TYPE	VALUE
<u>NineRAT</u>	SHA256	534f5612954db99c86baa67ef51a3ad88bc21735bce7bb591afa8a4317c35433, ba8cd92cc059232203bcadee260ddbae273fc4c89b18424974955607476982c4, 47e017b40d418374c0889e4d22aa48633b1d41b16b61b1f2897a39112a435d30, f91188d23b14526676706a5c9ead05c1a91ea0b9d6ac902623bc565e1c200a59, 5b02fc3cfb5d74c09cab724b5b54c53a7c07e5766bffe5b1adf782c9e86a8541, 82d4a0fef550af4f01a07041c16d851f262d859a3352475c62630e2c16a21def
<u>DLRAT</u>	SHA256	e615ea30dd37644526060689544c1a1d263b6bb77fe3084aa7883669c1fde12f, 9a48357c06758217b3a99cdf4ab83263c04bdea98c347dd14b254cab6c81b13a
<u>Bottom Loader</u>	SHA256	0e416e3cc1673d8fc3e7b2469e491c005152b9328515ea9bbd7cf96f1d23a99f
<u>HazyLoad</u>	SHA256	000752074544950ae9020a35ccd77de277f1cd5026b4b9559279dc3b86965eee
<u>LuaDream</u>	Domains	mode.encagil[.]com, ssl.explorecell[.]com
	SHA1	fc8fdf58cd945619cbfede40ba06aada10de9459
	IPv4	185.82.218[.]230
<u>KEYPLUG</u>	Domains	dan.det-ploshadka[.]com, ssl.e-novauto[.]com, yum.luxyries[.]com
	SHA1	a7932112b7880c95d77bc36c6fced977f4a5889, b6d759c9ea5d2136bacb1b2289a31c33500c8de8
	IPv4	172.67.216[.]63, 185.38.142[.]129, 37.120.140[.]205, 45.129.199[.]122, 45.90.59[.]17, 5.2.67[.]176, 5.2.72[.]130, 5.255.88[.]188, 79.110.52[.]160

Attack Name	TYPE	VALUE
<u>Editbot Stealer</u>	SHA256	3f7bd47fbbf1fb0a63ba955c8f9139d6500b6737e5baf5fdb783f0ce dae94d6d
	SHA1	eed59a282588778ffbc772085b03d229a5d99e35
	MD5	669e7ac187fb57c4d90b07d9a6bb1d42
<u>GraphicalProton</u>	SHA256	01B5F7094DE0B2C6F8E28AA9A2DED678C166D615530E595621E6 92A9C0240732, 34C8F155601A3948DDB0D60B582CFE87DE970D443CC0E05DF48 B1A1AD2E42B5E, 620D2BF14FE345EEF618FDD1DAC242B3A0BB65CCB75699FE00F7 C671F2C1D869, 773F0102720AF2957859D6930CD09693824D87DB705B3303CEF9 EE794375CE13, 7B666B978DBBE7C032CEF19A90993E8E4922B743EE839632BFA6 D99314EA6C53, 8AFB71B7CE511B0BCE642F46D6FC5DD79FAD86A58223061B684 313966EF9C7, 971F0CED6C42DD2B6E3EA3E6C54D0081CF9B06E79A38C2EDE3A 2C5228C27A6DC, CB83E5CB264161C28DE76A44D0EDB450745E773D24BEC5869D8 5F69633E44DCF, CD3584D61C2724F927553770924149BB51811742A461146B15B3 4A26C92CAD43, EBE231C90FAD02590FC56D5840ACC63B90312B0E2FEE7DA3C760 6027ED92600E, F1B40E6E5A7CBC22F7A0BD34607B13E7E3493B8AAD7431C47F13 66F0256E23EB, C7B01242D2E15C3DA0F45B8ADEC4E6913E534849CDE16A2A6C4 80045E03FBEE4, 4BF1915785D7C6E0987EB9C15857F7AC67DC365177A1707B1482 2131D43A6166, 18101518EAE3EEC6EBE453DE4C4C380160774D7C3ED5C79E1813 013AC1BB0B93, 19F1EF66E449CF2A2B0283DBB756850CCA396114286E1485E35E 6C672C9C3641, 1E74CF0223D57FD846E171F4A58790280D4593DF1F2313204407 6560A5455FF8, 219FB90D2E88A2197A9E08B0E7811E2E0BD23D59233287587CCC 4642C2CF3D67, 92C7693E82A90D08249EDEFBCA6533FED81B62E9E056DEC34C2 4756E0A130A6, B53E27C79EED8531B1E05827ACE2362603FB9F77F53CEE2E34940 D570217CBF7,

Attack Name	TYPE	VALUE
<u>GraphicalProtos</u>	SHA256	C37C109171F32456BBE57B8676CC533091E387E6BA733FBAA0175C43CFB6EBD, C40A8006A7B1F10B1B42FDD8D6D0F434BE503FB3400FB948AC9AB8DDFA5B78A0, C832462C15C8041191F190F7A88D25089D57F78E97161C3003D68D0CC2C4BAA3, F6194121E1540C3553273709127DFA1DAAB96B0ACFAB6E92548BFB4059913C69
<u>Rhadamanthys stealer</u>	SHA256	bb8bbcc948e8dca2e5a0270c41c062a29994a2d9b51e820ed74d9b6e2a01ddcf, 22a67f510dfb7ca822b5720b89cd81abfa5e63fefaf1cdc7e266fbcbb0698db33, 6ed3ac428961b350d4c8094a10d7685578ce02c6cd41cc7f98d8eeb361f0ee38, 4fd469d08c051d6997f0471d91ccf96c173d27c8cff5bd70c3f2c5008faa786f, 633b0fe4f3d2bfb18d4ad648ff223fe6763397daa033e9c5d79f2cae89a6c3b2, 50b1f29ccdf727805a793a9dac61371981334c4a99f8fae85613b3ee57b186d2, 01609701a3ea751dc2323bec8018e11742714dc1b1c2dcb39282f3c4a4537c7d, a905226a2486ccc158d44cf4c1728e103472825fb189e05c17d998b9f5534d63, ed713454c20844522304c49cfe25fe1490418c300e5ab0c9fca431ede1e91d7b, f82ec2246dde81ca9edb69fb9c7ce3f7101f5ffcdc3bdb86fea2a5373fb026fb, ee4a487e78f23f5dfffc35e73aeb9602514ebd885eb97460dd26635f67847bd16, fcb00beaa88f7827999856ba12302086cadbc1252261d64379172f2927a6760e, a87032195e38892b351641e08c81b92a1ea888c3c74a0c7464160e86613c4476, 3d010e3fce1b2c9ab5b8cc125be812e63b661ddcbde40509a49118c2330ef9d0, ecab35dfa6b03fed96bb69ffcecd11a29113278f53c6a84adced1167b66abe62, 5890b47df83b992e2bd8617d0ae4d492663ca870ed63ce47bb82f00fa3b82cf9, 2b6faa98a7617db2bd9e70c0ce050588c8b856484d97d46b50ed3bb94bdd62f7, f1f33618bbb8551b183304ddb18e0a8b8200642ec52d5b72d3c75a00cdb99fd4

Attack Name	TYPE	VALUE
<u>Pierogi++</u>	SHA1	32d0073b8297cc8350969fd4b844d80620e2273a, 3ae41f7a84ca750a774f777766ccf4fd38f7725a, 42cb16fc35cfc30995e5c6a63e32e2f9522c2a77, 5128d0af7d700241f227dd3f546b4af0ee420bbc, 5e46151df994b7b71f58556c84eeb90de0776609, 60480323f0e6efa3ec08282650106820b1f35d2f, 75a63321938463b8416d500b34a73ce543a9d54d, ae44444447becaa646789c5ee6df2a6e18f1d25228, da96a8c04edf8c39d9f9a98381d0d549d1a887e8, f3e99ec389e6108e8fda6896fa28a4d7237995be
	Domians	aracaravan[.]com, beatricewarner[.]com, swsan-lina-soso[.]info, zakaria-chotzen[.]info
<u>Micropsia</u>	SHA1	003bb055758a7d687f12b65fc802bac07368335e, 19026b6eb5c1c272d33bda3eab8197bec692abab, 2a45843cab0241cce3541781e4e19428dcf9d949, 5619e476392c195ba318a5ff20e40212528729ba, 745657b4902a451c72b4aab6cf00d05895bbc02f, 95fc3fb692874f7415203a819543b1e0dd495a57, c3038d7b01813b365fd9c5fd98cd67053ed22371
	Domains	bruce-ess[.]com, claire-conway[.]com, delooy[.]com, izocraft[.]com, jane-chapman[.]com, porthopeminorhockey[.]net, wayne-lashley[.]com
<u>BarbWire</u>	SHA1	4dcdcb7095da34b3cef73ad721d27002c5f65f47b, 694fa6436302d55c544cfb4bc9f853d3b29888ef
	Domain	wanda-bell[.]website
<u>Kuiper Ransomware</u>	SHA1	90dd8718560a23faddf99e64b52175d1d765397c
	MD5	84820f3eb491a2fde1f52435cd29646c
	IPv4	91.92.251[.]25
<u>Play Ransomware</u>	MD5	09f341874f72a5cfcedbca707bfd1b3b, 57bcb8cfad510109f7ddedf045e86a70
	SHA256	453257c3494addafb39cb6815862403e827947a1e7737eb816 8cd10522465deb, 47c7cee3d76106279c4c28ad1de3c833c1ba0a2ec56b015058 6c7e8480ccae57, 75404543de25513b376f097ceb383e8efb9c9b95da8945fd4a a37c7b2f226212,

Attack Name	TYPE	VALUE
<u>Play Ransomware</u>	SHA256	7a42f96599df8090cf89d6e3ce4316d24c6c00e499c8557a2e09d61c00c11986, 7a6df63d883bbccb315986c2cfb76570335abf84fafbefce047d126b32234af8, 7dea671be77a2ca5772b86cf8831b02bff0567bce6a3ae023825aa40354f8aca, c59f3c8d61d940b56436c14bc148c1fe98862921b8f7bad97fbc96b31d71193c, e652051fe47d784f6f85dc00adca1c15a8c7a40f1e5772e6a95281d8bf3d5c74, e8d5ad0bf292c42a9185bb1251c7e763d16614c180071b01da742972999b95da
	SHA1	6e8582faeaf34f63fbe0083a811bcce1aa6c31de, e6c381859f53d0c0db9fcd30fa601ecb935b93e0
	IPv4	85.203.44[.]5, 85.203.44[.]8
<u>MuddyC2Go</u>	SHA256	1a0827082d4b517b643c86ee678eaa53f85f1b33ad409a23c50164c3909fdaca, 25b985ce5d7bf15015553e30927691e7673a68ad071693bf6d0284b069ca6d6a
	IPv4	94.131.109[.]65, 95.164.38[.]99, 45.67.230[.]91, 45.150.64(.)39 , 95.164.46[.]199, 94.131.98[.]14
<u>ODAgent</u>	SHA1	7E498B3366F54E936CB0AF767BFC3D1F92D80687
<u>OilCheck</u>	SHA1	8D84D32DF5768B0D4D2AB8B1327C43F17F182001, DDF0B7B509B240AAB6D4AB096284A21D9A3CB910
<u>OilBooster</u>	SHA1	1B2FEDD5F2A37A0152231AE4099A13C8D4B73C9E
<u>PikaBot</u>	SHA256	0e81a36141d196401c46f6ce293a370e8f21c5e074db5442ff2ba6f223c435f5, da81259f341b83842bf52325a22db28af0bc752e703a93f1027fa8d38d3495ff, 69281eea10f5bfcfd8bc0481f0da9e648d1bd4d519fe57da82f2a9a452d60320
	Domains	anadesky[.]ovmv[.]net, cxtensones[.]top

Attack Name	TYPE	VALUE
<u>PikaBot</u>	IPv4	172[.]232[.]186[.]251, 57[.]128[.]83[.]129, 57[.]128[.]164[.]11, 57[.]128[.]108[.]132, 139[.]99[.]222[.]29, 172[.]232[.]164[.]77, 54[.]37[.]79[.]82, 172[.]232[.]162[.]198, 57[.]128[.]109[.]221
<u>JaskaGO</u>	SHA256	7bc872896748f346fdb2426c774477c4f6dcedc9789a44bd9d3 c889f778d5c4b, f38a29d96eee9655b537fee8663d78b0c410521e1b88885650 a695aad89dbe3f, 6efa29a0f9d112cfbb982f7d9c0ddfe395b0b0edb885c2d5409 b33ad60ce1435, f2809656e675e9025f4845016f539b88c6887fa247113ff60642 bd802e8a15d2, 85bffa4587801b863de62b8ab4b048714c5303a1129d621ce9 7750d2a9a989f9, 37f07cc207160109b94693f6e095780bea23e163f788882cc02 63cbddac37320, e347d1833f82dc88e28b1baaa2657fe7ecbfe41b265c769cce2 5f1c0e181d7e0, c714f3985668865594784dba3aeda1d961acc4ea7f59a178851 e609966ca5fa6, 9b23091e5e0bd973822da1ce9bf1f081987daa3ad8d2924ddc 87eee6d1b4570d, 1c0e66e2ea354c745aebda07c116f869c6f17d205940bf4f19e 0fdf78d5dec26, e69017e410aa185b34e713b658a5aa64bff9992ec1dbd27432 7a5d4173f6e559, 6cdda60ffbc0e767596eb27dc4597ad31b5f5b4ade066f72701 2de9e510fc186, 44d2d0e47071b96a2bd160aead12239d4114b7ec6c15fd4515 01c008d53783cf, 8ad4f7e14b36ffa6eb7ab4834268a7c4651b1b44c2fc5b94024 6a7382897c98e, 888623644d722f35e4dcc6df83693eab38c1af88ae03e68fd30 a96d4f8cbcc01, 3f139c3fcad8bd15a714a17d22895389b92852118687f62d7b4 c9e57763a8867, 207b5ee9d8cbff6db8282bc89c63f85e0ccc164a6229c882ccdf 6143ccefdcbc

Attack Name	TYPE	VALUE
<u>Mallox Ransomware</u>	SHA1	3d434b7cc9589c43d986bf0e1cadb956391b5f9a, 9295a02c49aa50475aa7876ca80b3081a361ff7d, 3fa79012dfdac626a19017ed6974316df13bc6ff, 7e7957d7e7fd7c27b9fb903a0828b09cbb44c196, 08a236455490d5246a880821ba33108c4ef00047, 0d2711c5f8eb84bd9915a4191999afd46abca67a, 0e45e8a5b25c756f743445f0317c6352d3c8040a, 11d7779e77531eb27831e65c32798405746ccea1, 246e7f798c3bfba81639384a58fa94174a08be80, 273e40d0925af9ad6ca6d1c6a9d8e669a3bdc376, 2a6f632ab771e7da8c551111e2df786979fd895d, 2c49fa21b0a8415994412fe30e023907f8a7b46e, 33c24486f41c3948fbd761e6f55210807af59a1f, 4c863df8ea7446cb7fba6e582959bc3097f92b5c, 4fcfb65cb757c83ed91bc01b3f663072a52da54b, 5229a5d56836c3d3fc7fb12a43a431b5c90f771d, 552862af77b204ac1f69b9e25937cc60e30e6c0f, 5d0b9521cca0c911d49162e7f416a1463fbaefae, 5d9cc0bc652b1d21858d2e4ddd35303cd9aeb2a3, 63408c84c5d642cf1c5b643a97b84e22e18323c0, 643918830b87691422d6d7bd669c408679411303, 65d7cb5f1770b77b047baf376bd6b4cf86c5d42c, 88eef50d85157f2e0552aab07cac7e7ec21680f5, 88f8629423efe84e2935eb71d292e194be951a16, 9d182e17f88e26cb0928e8d07d6544c2d17e99f5, a8886c9417b648944d2afd6b6c4941588d670e3c, db3fd39fc826e87fa70840e86d5c12eef0fe0566, ee15c76e07051c10059a14e03d18a6358966e290, fb05a6fafc28194d011a909d946b3efa64cdb4cf
	IPv4	104[.]21.76.77, 104[.]237.62.211, 172[.]67.191.103, 64[.]185.227.155, 80[.]66.75.37
<u>MuddyC2Go</u>	SHA256	1a0827082d4b517b643c86ee678eaa53f85f1b33ad409a23c50164c3909fdaca, 25b985ce5d7bf15015553e30927691e7673a68ad071693bf6d0284b069ca6d6a
	IPv4	94.131.109[.]65, 95.164.38[.]99, 45.67.230[.]91, 45.150.64(.)39 , 95.164.46[.]199, 94.131.98[.]14

Attack Name	TYPE	VALUE
<u>Bandook RAT</u>	SHA256	8904ce99827280e447cb19cf226f814b24b0b4eec18dd758e7fb93476b7bf8b8, d3e7b5be903eb9a596b9b2b78e5dd28390c6aad8bdd4ea1ba3d896d99fa0057, 3169171e671315e18949b2ff334db83f81a3962b8389253561c813f01974670b, e87c338d926cc32c966fce2e968cf6a20c088dc6aedf0467224725ce36c9a525, 2e7998a8df9491dad978dee76c63cb1493945b9cf198d856a395ba0fae5c265a, 430b9e91a0936978757eb8c493d06cbd2869f4e332ae00be0b759f2f229ca8ce, cd78f0f4869d986cf129a6c108264a3517dbcf16ecfc7c88ff3654a6c9be2bca
	IPv4	77.91.100[.]237, 45.67.34[.]219
<u>MetaStealer</u>	Domains	wgcuwgcociewewoo[.]xyz, ockimqekmwecocug[.]xyz, kiqewcsyeyaeusag[.]xyz, cewgwsyookogmmki[.]xyz, startworkremotely[.]com, csyeywqwyikqaiim[.]xyz, iqaeaoeueeqouweo[.]xyz, mmswgeewswyyywqk[.]xyz, accounts[.]google[.]com, iqwgwsigmigiqgoa[.]xyz
	SHA256	949c5ae4827a3b642132faf73275fb01c26e9dce151d6c5467d3014f208f77ca, 99123063690e244f95b89d96759ec7dbc28d4079a56817f3152834047ab047eb, c5597da40dee419696ef2b32cb937a11fcad40f4f79f9a80f6e326a94e81a90f
<u>LONEPAGE</u>	SHA256	8aca535047a3a38a57f80a64d9282ace7a33c54336cd08662409352c23507602, 4e8de351db362c519504509df309c7b58b891baf9cb99a3500b92fe0ef772924, a10209c10bf373ed682a13dad4ff3aea95f0fdcd48b62168c6441a1c9f06be37, 39d56eab8adfe9eb244914dde42ec7f12f48836d3ba56c479ab21bdbc41025fe, 96ab977f8763762af26bad2b6c501185b25916775b4ed2d18ad66b4c38bd5f0d,

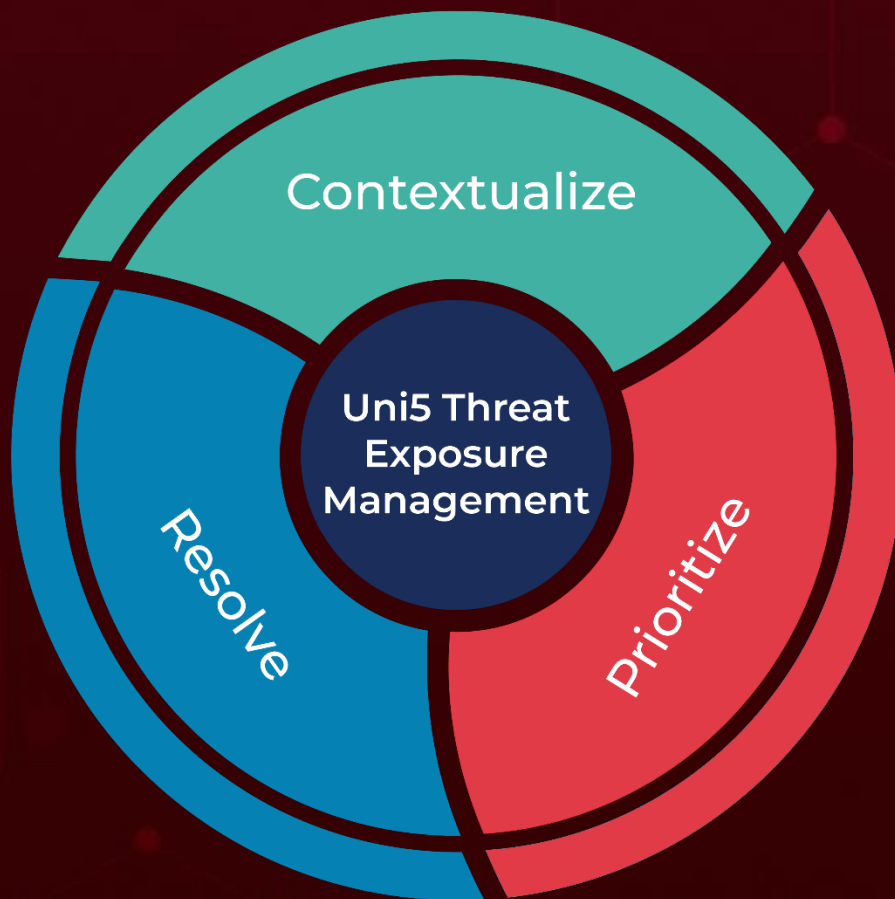
Attack Name	TYPE	VALUE
<u>LONEPAGE</u>	SHA256	e34fc4910458e9378ea357baf045e9c0c21515a0b8818a5b36daceb2af464ea0,6f5f265110490158df91ca8ad429a96f8af69ca30b9e3b0d9c11d4fef74091e8
<u>SEASPY</u>	MD5	7b83e4bd880bb9d7904e8f553c2736e3
<u>SALTWATER</u>	MD5	d493aab1319f10c633f6d223da232a27
<u>AppleSeed</u>	MD5	db5fc5cf50f8c1e19141eb238e57658c,6a968fd1608bca7255c329a0701dbf58,cafc26b215550521a12b38de38fa802b,76831271eb117b77a57869c80bfd6ba6,b5d3e0c3c470d2d41967229e17259c87,4511e57ae1eacdf1c2922bf1a94bfb8d,02843206001cd952472abf5ae2b981b2,8aeacd58d371f57774e63d217b6b6f98,cacf04cd560b70eaaf0e75f3da9a5e8f,7a7937f8d4dcb335e96db05b2fb64a1b,f3a55d49562e41c7d339fb52457513ba,5d3ab2baacf2ad986ed7542eeabf3dab,d4ad31f316dc4ca0e7170109174827cf,1f7d2cbfc75d6eb2c4f2b8b7a3eec1bf,ae9593c0c80e55ff49c28e28bf8bc887,b6f17d59f38aba69d6da55ce36406729,153383634ee35b7db6ab59cde68bf526,c560d3371a16ef17dd79412f6ea99d3a,0cce02d2d835a996ad5dfc0406b44b01
	URL	hxxp://bitburny.kro[.]kr/aha/, hxxp://bitthum.kro[.]kr/hu/, hxxp://doma2.o-r[.]kr//, hxxp://my.topton.r-e[.]kr/address/, hxxp://nobtwoseb1.n-e[.]kr//, hxxp://octseven1.p-e[.]kr//, hxxp://tehyeran1.r-e[.]kr//, hxxp://update.ahnlaib.kro[.]kr/aha/, hxxp://update.doumi.kro[.]kr/aha/, hxxp://update.onedrive.p-e[.]kr/aha/, hxxp://yes24.r-e[.]kr/aha/
<u>AlphaSeed</u>	MD5	d94c6323c3f77965451c0b7eb32e13,52ff761212eeaadcd3a95a1f8c3e4030,4cb843f2a5b6ed7e806c69e6c25a1025,b6ab96dc4778c6704b6def5db448a020
<u>Meterpreter</u>	MD5	232046aff635f1a5d81e415ef64649b7,58fafabd6ae8360c9d604cd314a27159,e582bd909800e87952eb1f206a279e47,ac99b5c1d66b5f0ddb4423c627ca8333

Attack Name	TYPE	VALUE
<u>Meterpreter</u>	IPv4	104.168.145[.]83:993, 159.100.6[.]137:993, 38.110.1[.]69:993, 107.148.71[.]88:993
<u>TinyNuke</u>	MD5	e34669d56a13d607da1f76618eb4b27e
	IPv4	45.114.129[.]138:33890

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.



REPORT GENERATED ON

January 11, 2024 • 10:00 PM

© 2024 All Rights are Reserved by Hive Pro®



More at www.hivepro.com