

Lazarus covets COVID-19-related intelligence

APT REPORTS

23 DEC 2020



// AUTHORS



SEONGSU PARK

As the COVID-19 crisis grinds on, some threat actors are trying to speed up vaccine development by any means available. We have found evidence that actors, such as the Lazarus group, are going after intelligence that could help these efforts by attacking entities related to COVID-19 research.



MITRE ATT&CK Mapping.

While tracking the Lazarus group's continuous campaigns targeting various industries, we discovered that they recently went after COVID-19-related entities. They attacked a pharmaceutical company at the end of September, and during our investigation we discovered that they had also attacked a government ministry related to the COVID-19 response. Each attack used different tactics, techniques and procedures (TTPs), but we found connections between the two cases and evidence linking those attacks to the notorious Lazarus group.

Relationship of recent Lazarus group attack

In this blog, we describe two separate incidents. The first one is an attack against a government health ministry: on October 27, 2020, two Windows servers were compromised at the ministry. We were unable to identify the infection vector, but the threat actor was able to install a sophisticated malware cluster on these servers. We already knew this malware as 'wAgent'. It's main component only works in memory and it fetches additional payloads from a remote server.

The second incident involves a pharmaceutical company. According to our telemetry, this company was breached on September 25, 2020. This time, the Lazarus group deployed the Bookcode malware, previously <u>reported</u> by ESET, in a supply chain attack through a South Korean software company. We were also able to observe post-exploitation commands run by Lazarus on this target.

Both attacks leveraged different malware clusters that do not overlap much. However, we can confirm that both of them are connected to the Lazarus group, and we also found overlaps in the post-exploitation process.

wAgent malware cluster

The malware cluster has a complex infection scheme:

Infection scheme of the wAgent malware cluster

Unfortunately, we were unable to obtain the starter module used in this attack. The module seems to have a trivial role: executing wAgent with specific parameters. One of the wAgent samples we collected has fake metadata in order to make it look like the legitimate compression utility XZ Utils.

According to our telemetry, this malware was directly executed on the victim machine from the command line shell by calling the Thumbs export function with the parameter:

1 c:\windows\system32\rundll32.exe C:\Programdata\Oracle\javac.dat

The 16-byte string parameter is used as an AES key to decrypt an embedded payload – a Windows DLL. When the embedded payload is loaded in memory, it decrypts configuration information using the given decryption key. The configuration contains various information including C2 server addresses, as well as a file path used later on. Although the configuration specifies two C2 servers, it contains the same C2 server twice. Interestingly, the configuration has several

URL paths separated with an '@' symbol. The malware attempts to connect to each URL path randomly.

C2 address in the configuration

When the malware is executed for the first time, it generates identifiers to distinguish each victim using the hash of a random value. It also generates a 16-byte random value and reverses its order. Next, the malware concatenates this random 16-byte value and the hash using '@' as a delimiter. i.e.:

82UKx3vnjQ791PL2@29312663988969

POST parameter names (shown below) are decrypted at runtime and chosen randomly at each C2 connection. We've previously seen and reported to our Threat Intelligence Report customers that a very similar technique was used when the Lazarus group attacked cryptocurrency businesses with an evolved downloader malware. It is worth noting that <u>Tistory</u> is a South Korean blog posting service, which means the malware author is familiar with the South Korean internet environment:

plugin course property **tistory** tag vacon slide parent manual themes product notice portal articles category doc entry isbn tb idx tab maincode level bbs method thesis content blogdata tname

The malware encodes the generated identifier as base64 and POSTs it to the C2. Finally, the agent fetches the next payload from the C2 server and loads it in memory directly. Unfortunately, we couldn't obtain a copy of it, but according to our telemetry, the

GREAT WEBINARS

13 MAY 2021. 1:00PM

GReAT Ideas. Balalaika Edition

BORIS LARIN, DENIS LEGEZO

26 FEB 2021, 12:00PM

GReAT Ideas. Green Tea Edition

JOHN HULTQUIST, BRIAN BARTHOLOMEW, SUGURU ISHIMARU, VITALY KAMLUK, SEONGSU PARK, YUSUKE NIWA, MOTOHIKO SATO

17 JUN 2020. 1:00PM

GReAT Ideas. Powered by SAS: malware attribution and next-gen

fetched payload is a Windows DLL containing backdoor functionalities. Using this in-memory backdoor, the malware operator executed numerous shell commands to gather victim information:

```
1 cmd.exe /c ping -n 1 -a 192.[redacted]
2 cmd.exe /c ping -n 1 -a 192.[redacted]
3 cmd.exe /c dir \\192.[redacted]\c$
4 cmd.exe /c query user
5 cmd.exe /c net user [redacted] /domain
6 cmd.exe /c whoami
```

Persistent wAgent deployed

Using the wAgent backdoor, the operator installed an additional wAgent payload that has a persistence mechanism. After fetching this DLL, an export called SagePlug was executed with the following command line parameters:

```
1 rundll32.exe c:\programdata\oracle\javac.io, SagePlug 4GO-R19-0T(
```

4GO-R19-OTQ-HL2A is used as a key and the file path indicates where debugging messages are saved. This wAgent installer works similarly to the wAgent loader malware described above. It is responsible for loading an embedded payload after decrypting it with the 16-byte key from the command line. In the decrypted payload, the malware generates a file path to proceed with the infection:

• C:\Windows\system32\[random 2 characters]svc.drv

This file is disguised as a legitimate tool named <u>SageThumbs Shell</u> <u>Extension</u>. This tool shows image files directly in Windows Explorer. However, inside it contains an additional malicious routine.

While creating this file, the installer module fills it with random data to increase its size. The malware also copies cmd.exe's creation time to the new file in order to make it less easy to spot.

IoT honeypots

MARCO PREUSS, DENIS LEGEZO, COSTIN RAIU, KURT BAUMGARTNER, DAN DEMETER, YAROSLAV SHMELEV

26 AUG 2020, 2:00PM

GReAT Ideas. Powered by SAS: threat actors advance on new fronts

IVAN KWIATKOWSKI, MAHER YAMOUT,
NOUSHIN SHABAB, PIERRE DELCHER, FÉLIX AIME,
GIAMPAOLO DEDOLA, SANTIAGO PONTIROLI

22 JUL 2020. 2:00PM

GReAT Ideas. Powered by SAS: threat hunting and new techniques

DMITRY BESTUZHEV, COSTIN RAIU, PIERRE DELCHER, BRIAN BARTHOLOMEW, BORIS LARIN, ARIEL JUNGHEIT, FABIO ASSOLINI For logging and debugging purposes, the malware stores information in the file provided as the second argument (c:\programdata\oracle\~TMP739.TMP in this case). This log file contains timestamps and information about the infection process. We observed that the malware operators were checking this file manually using Windows commands. These debugging messages have the same structure as previous malware used in attacks against cryptocurrency businesses involving the Lazarus group. More details are provided in the Attribution section.

After that, the malware decrypts its embedded configuration. This configuration data has a similar structure as the aforementioned wAgent malware. It also contains C2 addresses in the same format:

- hxxps://iski.silogica[.]net/events/serial.jsp@WFRForms.jsp@impo rt.jsp@view.jsp@cookie.jsp
- hxxp://sistema.celllab[.]com.br/webrun/Navbar/auth.jsp@cache.js p@legacy.jsp@chooselcon.jsp@customZoom.jsp
- hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@ helpform.jsp@masks.jsp@Functions.jsp
- hxxps://sac.najatelecom.com[.]br/sac/Dados/ntlm.jsp@loading.js p@access.jsp@local.jsp@default.jsp

The malware encrypts configuration data and stores it as a predefined registry key with its file name:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\
 eventlog\Application\Emulate - [random 2 characters]svc

It also takes advantage of the Custom Security Support Provider by registering the created file path to the end of the existing registry value. Thanks to this registry key, this DLL will be loaded by Isass.exe during the next startup.

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Lsa - Security Packages: kerberos msv1_0 schannel wdigest
tspkg pku2u [random 2 characters]svc.drv

Finally, the starter module starts the [random 2 characters]svc.drv file in a remote process. It searches for the first svchost.exe process and performs DLL injection. The injected [random 2 characters]svc.drv malware contains a malicious routine for decrypting and loading its embedded payload. The final payload is wAgent, which is responsible for fetching additional payloads from the C2, possibly a fully featured backdoor, and loading it in the memory.

Bookcode malware cluster

The pharmaceutical company targeted by Lazarus group's Bookcode malware is developing a COVID-19 vaccine and is authorized to produce and distribute COVID-19 vaccines. We previously saw Lazarus attack a software company in South Korea with Bookcode malware, possibly targeting the source code or supply chain of that company. We have also witnessed the Lazarus group carry out spear phishing or strategic website compromise in order to deliver Bookcode malware in the past. However, we weren't able to identify the exact initial infection vector for this incident. The whole infection procedure confirmed by our telemetry is very similar to the one described in ESET's latest publication on the subject.

Bookcode infection procedure

Although we didn't find the piece of malware tasked with deploying the loader and its encrypted Bookcode payload, we were able to FROM THE SAME AUTHORS

A cascade of compromise: unveiling Lazarus' new campaign

identify a loader sample. This file is responsible for loading an encrypted payload named gmslogmgr.dat located in the system folder. After decrypting the payload, the loader finds the Service Host Process (svchost.exe) with winmgmt, ProfSvc or Appinfo parameters and injects the payload into it. Unfortunately, we couldn't acquire the encrypted payload file, but we were able to reconstruct the malware actions on the victim machine and identify it as the Bookcode malware we reported to our Threat Intelligence Report customers.

Upon execution, the Bookcode malware reads a configuration file. While previous Bookcode samples used the file *perf9Inc.inf* as a configuration file, this version reads its configuration from a file called *C_28705.NLS*. This Bookcode sample has almost identical functionality as the malware described in the comprehensive report recently published by Korea Internet & Security Agency (KISA). As described on page 57 of that report, once the malware is started it sends information about the victim to the attacker's infrastructure. After communicating with the C2 server, the malware provides standard backdoor functionalities.

Post-exploitation phase

The Lazarus group's campaign using the Bookcode cluster has its own unique TTPs, and the same modus operandi was used in this attack.

- Extracting infected host information, including password hashes, from the registry sam dump.
- Using Windows commands in order to check network connectivity.
- Using the WakeMeOnLan tool to scan hosts in the same network.

After installing Bookcode on September 25, 2020, the malware operator started gathering system and network information from the victim. The malware operator also collected a registry sam dump containing password hashes:

Following the Lazarus group by tracking DeathNote campaign

BlueNoroff introduces new methods bypassing MoTW

Kimsuky's GoldDragon cluster and its C2 operations

The BlueNoroff cryptocurrency hunt is still on

- exe /c "reg.exe save hklm\sam %temp%\~reg_sam.save > "%temp%\BD54EA8118AF46.TMP~" 2>&1"
- exe /c "reg.exe save hklm\system %temp%\~reg_system.save > "%temp%\405A758FA9C3DD.TMP~" 2>&1"

In the lateral movement phase, the malware operator used well-known methodologies. After acquiring account information, they connected to another host with the "net" command and executed a copied payload with the "wmic" command.

- exe /c "netstat -aon | find "ESTA" > %temp%\~431F.tmp
- exe /c "net use \\172.[redacted] "[redacted]" /u:[redacted] > %temp%\~D94.tmp" 2>&1"
- wmic /node:172.[redacted] /user:[redacted]
 /password:"[redacted]" process call create
 "%temp%\engtask.exe" > %temp%\~9DC9.tmp" 2>&1"

Moreover, Lazarus used <u>ADfind</u> in order to collect additional information from the Active Directory. Using this utility, the threat actor extracted a list of the victim's users and computers.

Infrastructure of Bookcode

As a result of closely working with the victim to help remediate this attack, we discovered an additional configuration file. It contains four C2 servers, all of which are compromised web servers located in South Korea.

- hxxps://www.kne.co[.]kr/upload/Customer/BBS.asp
- hxxp://www.k-kiosk[.]com/bbs/notice_write.asp
- hxxps://www.gongim[.]com/board/ajax_Write.asp
- hxxp://www.cometnet[.]biz/framework/common/common.asp

One of those C2 servers had directory listing enabled, so we were able to gain insights as to how the attackers manage their C2 server:

Attacker files listed on a compromised website

We discovered several log files and a script from the compromised server, which is a "first-stage" C2 server. It receives connections from the backdoor, but only serves as a proxy to a "second-stage" server where the operators actually store orders.

File name	Description
_ICEBIRD007.dat	A log file containing the identifier of victims and timestamps.
~F05990302ERA.jpg	Second-stage C2 server address:
	hxxps://www.locknlockmall[.]com/common/popup_left.asp
Customer_Session.asp	Malware control script.

Customer_Session.asp is a first-stage C2 script responsible for delivering commands from the next-stage C2 server and command execution results from the implant. In order to deliver proper commands to each victim, the <code>bbs_code</code> parameter from the implants is used as an identifier. The script uses this identifier to assign commands to the correct victims. Here is how the process of sending an order for a particular victim works:

- 1 The malware operator sets the corresponding flag([id]_208) of a specific implant and saves the command to the variable([id]_210).
- 2 The implant checks the corresponding flag([id]_208) and retrieves the command from the variable([id]_210) if it is set.

- **3** After executing the command, the implant sends the result to the C2 server and sets the corresponding flag.
- 4 The malware operator checks the flag and retrieves the result if the flag is set.

Logic of the C2 script

Besides implant control features, the C2 script has additional capabilities such as updating the next-stage C2 server address, sending the identifier of the implant to the next-stage server or removing a log file.

Function name	Description
qnaview	Set [id]_209 variable to TRUE and save the "content" parameter value to [id]_211.
recuritview	If [id]_209 is SET, send contents of [id]_211 and reset it, and set [ID]_209 to FALSE.
notcieview	Set [id]_208 and save the "content" parameter value to [id]_210.
	qnaview

Subscribe to our weekly e-mails

The hottest research right in your inbox

Email(Required)

I agree to provide my email address to "AO Kaspersky Lab" to receive information about new posts on the site. I understand that I can withdraw this consent at any time via e-mail by clicking the "unsubscribe" link that I find at the bottom of any e-mail sent to me for the purposes mentioned above.

Subscribe

table_bVoice	voiceview	If [id]_208 is SET, send contents of [id]_210 and reset it, and set [id]_208 to FALSE.
table_bProduct	productview	Update the ~F05990302ERA.jpg file with the URL passed as the "target_url" parameter.
table_community	communityview	Save the identifier of the implant to the log file. Read the second-stage URL from ~F05990302ERA.jpg and send the current server URL and identifier to the next hop server using the following format: bbs_type=qnaboard&table_id= [base64ed identifier] &accept_identity=[base64 encoded current server IP]&redirect_info= [base64ed current server URL]
table_free	freeview	Read _ICEBIRD007.dat and send its contents, and delete it.

Attribution

We assess with high confidence that the activity analyzed in this post is attributable to the Lazarus group. In our previous research, we already attributed the malware clusters used in both incidents described here to the Lazarus group. First of all, we observe that the wAgent malware used against the health ministry has the same infection scheme as the malware that the Lazarus group used previously in attacks on cryptocurrency businesses.

 Both cases used a similar malware naming scheme, generating two characters randomly and appending "svc" to it to generate the path where the payload is dropped.

- Both malicious programs use a Security Support Provider as a persistence mechanism.
- Both malicious programs have almost identical debugging messages.

Here is a side-by-side comparison of the malware used in the ministry of health incident, and the malware (4088946632e75498d9c478da782aa880) used in the cryptocurrency business attack:

Debugging log from ministry of health case	Debugging log of cryptocurrency business case
15:18:20 Extracted DII : [random 2bytes]svc.drv	Extracted DII: [random 2bytes]svc.dll
	Extracted Injecter : [random
15:59:32 Reg Config Success!	2bytes]proc.exe
16:08:45 Register Svc Success!	Reg Config Success!
16:24:53 Injection Success, Process ID: 544	Register Svc Success!
	Start Injecter Success!

Regarding the pharmaceutical company incident, we previously concluded that Bookcode is exclusively used by the Lazarus group. According to our Kaspersky Threat Attribution Engine (KTAE), one of the Bookcode malware samples (MD5 <a href="https://doi.org/10.2016/journal.org/10.2016/jour

Kaspersky Threat Attribution Engine results for Bookcode

Moreover, the same strategy was used in the post-exploitation phase, for example, the usage of ADFind in the attack against the health ministry to collect further information on the victim's environment. The same tool was deployed during the pharmaceutical company case in order to extract the list of employees and computers from the Active Directory. Although ADfind is a common tool for the post-exploitation process, it is an additional data point that indicates that the attackers use shared tools and methodologies.

Conclusions

These two incidents reveal the Lazarus group's interest in intelligence related to COVID-19. While the group is mostly known for its financial activities, it is a good reminder that it can go after strategic research as well. We believe that all entities currently involved in activities such as vaccine research or crisis handling should be on high alert for cyberattacks.

Indicators of compromise

wAgent

IN THE SAME CATEGORY

Beyond the Surface: the evolution and expansion of the SideWinder APT group

BlindEagle flying high in Latin America

EastWind campaign: new CloudSorcerer attacks on government organizations in Russia

APT trends report Q2 2024

CloudSorcerer – A new APT targeting Russian government entities

dc3c2663bd9a991e0fbec791c20cbf92

%programdata%\oracle\javac.dat

26545f5abb70fc32ac62fdab6d0ea5b2

%programdata%\oracle\javac.dat

9c6ba9678ff986bcf858de18a3114ef3

%programdata%\grouppolicy\Policy.DAT

wAgent Installer

4814b06d056950749d07be2c799e8dc2

%programdata%\oracle\javac.io, %appdata%\ntuser.dat

wAgent compromised C2 servers

```
1 http://client.livesistemas[.]com/Live/posto/system.jsp@public.jsr
```

- hxxps://iski.silogica[.]net/events/serial.jsp@WFRForms.jsp@import
- 3 hxxp://sistema.celllab[.]com.br/webrun/Navbar/auth.jsp@cache.jsp@
- 4 hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@exit.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp@hxxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.ghxp://www.bytecortex.com[.]br/eletronicos/digital.jsp.gh
- 5 hxxps://sac.najatelecom.com[.]br/sac/Dados/ntlm.jsp@loading.jsp@d

wAgent file path

1 %SystemRoot%\system32\[random 2 characters]svc.drv

wAgent registry path

1 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\eventlog\Apr

Bookcode injector

Bookcode file path

```
1 %SystemRoot%\system32\C_28705.NLS
2
3 %SystemRoot%\system32\gmslogmgr.dat
```

Bookcode compromised C2 servers

```
1 hxxps://www.kne.co[.]kr/upload/Customer/BBS.asp
2 hxxp://www.k-kiosk[.]com/bbs/notice_write.asp
3 hxxps://www.gongim[.]com/board/ajax_Write.asp
4 hxxp://www.cometnet[.]biz/framework/common/common.asp
5 hxxps://www.locknlockmall[.]com/common/popup_left.asp
```

MITRE ATT&CK Mapping.

Tactic	Technique	Technique Name.
Execution	T1059.003	Command and Scripting Interpreter: Windows Command Shell System Services: Service Execution
Persistence	T1547.005 T1543.003	Boot or Logon Autostart Execution: Security Support Provider Create or Modify System Process: Windows Service
Privilege Escalation	T1547.005 T1543.003 T1055.001	Boot or Logon Autostart Execution: Security Support Provider Create or Modify System Process: Windows Service Process Injection: Dynamic-link Library Injection
Defense Evasion	T1070.006 T1055.001 T1140 T1027.001	Indicator Removal on Host: Timestomp Process Injection: Dynamic-link Library Injection Deobfuscate/Decode Files or Information Obfuscated Files or Information: Binary Padding
Credential Access	T1003.002	OS Credential Dumping: Security Account Manager
Discovery	T1082	System Information Discovery

	T1033	System Owner/User Discovery System Network Connections Discovery
Lateral	T1021.002	SMB/Windows Admin Shares
Movement	110211002	one, while the rail in order
Command and Control	T1071.001	Application Layer Protocol: Web Protocols
	T1132.001	Data Encoding: Standard Encoding
Exfiltration	T1041	Exfiltration Over C2 Channel

BACKDOOR LAZARUS MALWARE DESCRIPTIONS

MALWARE TECHNOLOGIES MEDICAL THREATS

TARGETED ATTACKS

Lazarus covets COVID-19-related intelligence

Your email address will not be published. Required fields are marked

Type your comment here

Name * Email *



Comment

// LATEST POSTS

SAS

The Crypto Game of Lazarus APT: Investors vs. Zero-days

BORIS LARIN, VASILY BERDNIKOV

MALWARE DESCRIPTIONS

Grandoreiro, the global trojan with grandiose goals

GREAT

CRIMEWARE REPORTS

Stealer here, stealer there, stealers everywhere!

GREAT

CRIMEWARE REPORTS

Analysis of the Crypt Ghouls group: continuing the investigation into a series of attacks on Russia

KASPERSKY

// LATEST WEBINARS



04 SEP 2024, 5:00PM 60 MIN

Inside the Dark Web: exploring the human side of cybercriminals

ANNA PAVLOVSKAYA



13 AUG 2024, 5:00PM 60 MIN

The Cybersecurity
Buyer's Dilemma: Hype
vs (True) Expertise

OLEG GOROBETS,
ALEXANDER LISKIN

CYBERTHREAT TALKS

16 JUL 2024, 5:00PM 60 MIN

Cybersecurity's human factor – more than an unpatched vulnerability

OLEG GOROBETS



09 JUL 2024, 4:00PM

Building and prioritizing detection engineering backlogs with MITRE ATT&CK

ANDREY TAMOYKIN

// REPORTS

Beyond the Surface: the evolution and expansion of the SideWinder APT group

Kaspersky analyzes SideWinder APT's recent activity: new targets in the MiddleEast and Africa, post-exploitation tools and techniques.

EastWind campaign: new CloudSorcerer attacks on government organizations in Russia

Kaspersky has identified a new EastWind campaign targeting Russian organizations and using CloudSorcerer as well as APT31 and APT27 tools.

BlindEagle flying high in Latin America

Kaspersky shares insights into the activity and TTPs of the BlindEagle APT, which targets organizations and individuals in Colombia, Ecuador, Chile, Panama and other Latin American countries.

APT trends report Q2 2024

The report features the most significant developments relating to APT groups in Q2 2024, including the new backdoor in Linux utility XZ, a new RAT called SalmonQT, and hacktivist activity.



// SUBSCRIBE TO OUR WEEKLY E-MAILS

The hottest research right in your inbox

Email

Subscribe

I agree to provide my email address to "AO Kaspersky Lab" to receive information about new posts on the site. I understand that I can withdraw this consent at any time via e-mail by clicking the "unsubscribe" link that I find at the bottom of any e-mail sent to me for the purposes mentioned above.

kaspersky

THREATS

APT (Targeted attacks)

Secure environment

(loT)

Mobile threats

Financial threats

Spam and phishing

Industrial threats

Web threats

Vulnerabilities and

exploits

All threats

CATEGORIES

APT reports

Malware descriptions

Security Bulletin

Malware reports

Spam and phishing

reports

Security technologies

Research

Publications

All categories

OTHER SECTIONS

Archive

All tags

Webinars

APT Logbook

Statistics

Encyclopedia

Threats descriptions

KSB 2023

© 2024 AO Kaspersky Lab. All Rights Reserved.

Registered trademarks and service marks are the property of their respective owners.

Privacy Policy | License Agreement | Cookies