

Threat Level

HiveForce Labs THREAT ADVISORY



APT28 Targets Government Agencies with BEARDSHELL and COVENANT

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Admiralty Code

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Summary

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- Attack Commenced: March 2024
- Targeted Country: Ukraine
- Malware: BeardShell, Covenant, and SlimAgent
- **Threat Actor:** APT28 (aka Sednit group, Sofacy, Fancy Bear, Group 74, TG-4127, Pawn Storm, Tsar Team, Strontium, Swallowtail, SIG40, Snakemackerel, Iron Twilight, ATK 5, T-APT-12, ITG05, TAG-0700, UAC-0028, FROZENLAKE, Grey-Cloud, Forest Blizzard, GruesomeLarch, BlueDelta, TA422, Fighting Ursa, Blue Athena, UAC-0063, TAG-110)
- Targeted Platforms: Windows
- Targeted Industry: Government

Attack: APT28 (UAC-0001), a Russian state-linked group, targeted government agencies with a sophisticated cyberattack using spear-phishing emails to deliver malicious documents via Signal. The attack deployed BEARDSHELL and COVENANT malware, enabling remote access and data exfiltration through trusted cloud services. By leveraging fileless techniques and legitimate platforms, the attackers evaded detection and maintained persistent control over compromised systems. This campaign highlights the evolving tactics of APT28 in targeting critical government infrastructure.

💥 Attack Regions



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Attack Details

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A recent cyberattack campaign attributed to the Russian statesponsored group APT28 (also known as UAC-0001 or Fancy Bear) has targeted government agencies using sophisticated malware tools, including BEARDSHELL and COVENANT. The attackers initiated the operation via spear-phishing, distributing malicious Microsoft Word documents through the encrypted messaging app Signal. These documents contained macros which, once enabled, triggered a multistage, fileless infection chain designed for stealth and persistence.

Upon execution, the macros dropped malicious DLLs and registry entries to hijack COM objects, specifically exploiting explorer.exe to stealthily launch shellcode hidden in image files. This shellcode loaded the COVENANT framework—a .NET-based command-and-control tool directly into memory. By leveraging legitimate services like Koofr for C2 communications, the attackers obscured their traffic and evaded detection.

COVENANT facilitated the delivery of further payloads, most notably BEARDSHELL, a custom backdoor written in C++ that decrypted and executed PowerShell scripts retrieved via the Icedrive API. BEARDSHELL used ChaCha20-Poly1305 encryption for its payloads and included features for full remote access. Another tool, SLIMAGENT, was used to capture and encrypt screenshots for exfiltration.

The campaign's notable use of trusted platforms, Signal, Koofr, and Icedrive, enabled the attackers to blend malicious activity with legitimate traffic. Combined with in-memory execution and COM hijacking, this significantly hindered detection efforts. Ukrainian authorities have underscored this as part of a broader strategy wherein Russian APTs, particularly <u>APT28</u>, pilot advanced cyberespionage techniques against Ukraine before potentially applying them elsewhere.

THREAT ADVISORY • ATTACK REPORT (Red)

Recommendations

Restrict Macro Execution: Disable or limit the use of Office macros, especially in documents from external sources. Use Group Policy or Office Trust Center settings to block macro-enabled documents by default.

Monitor for COM Hijacking: Audit registry keys commonly used for COM object hijacking (e.g., HKCU\Software\Classes\CLSID). Watch for DLLs loaded via non-standard COM paths, particularly under user-specific registry hives.

Enable Endpoint Protection and EDR/XDR Tools: Deploy modern Endpoint Detection and Response (EDR) or Extended Detection and Response (XDR) solutions. Ensure they are configured to detect scriptbased threats, registry modifications, privilege escalation, and persistence mechanisms.

Detect Abuse of Legitimate Cloud Services: Monitor outbound traffic to cloud platforms like Koofr and Icedrive, especially from systems that do not routinely use them. Use proxy or firewall rules to block access to unnecessary cloud storage services.

Potential <u>MITRE ATT&CK</u> TTPs

<u>TA0003</u>	<u>TA0001</u>	<u>TA0002</u>	<u>TA0004</u>	
Persistence	Initial Access	Execution	Privilege Escalation	
<u>TA0005</u>	<u>TA0010</u>	<u>TA0011</u>	<u>TA0040</u>	
Defense Evasion	Exfiltration	Command and Control	Impact	
<u>TA0007</u>	<u>T1546</u>	<u>T1564</u>	<u>T1059.005</u>	
Discovery	Event Triggered Execution	Hide Artifacts	Visual Basic	
<u>T1567.002</u>	<u>T1567</u>	<u>T1041</u>	<u>T1546.015</u>	
Exfiltration to Cloud Storage	Exfiltration Over Web Service	Exfiltration Over C2 Channel	Component Object Model Hijacking	

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<u>T1566.003</u>	<u>T1566</u>	<u>T1204</u>	<u>T1059.001</u>	
Spearphishing via Service	Phishing	User Execution	PowerShell	
<u>T1059</u>	<u>T1574.001</u>	<u>T1204.002</u>	<u>T1574</u>	
Command and Scripting Interpreter	DLL	Malicious File	Hijack Execution Flow	
<u>T1053.005</u>	<u>T1218</u>	<u>T1562</u>	<u>T1053</u>	
Scheduled Task	System Binary Proxy Execution	Impair Defenses	Scheduled Task/Job	
<u>T1071.001</u>	<u>T1071</u>	<u>T1573</u>	<u>T1027</u>	
Web Protocols	Application Layer Protocol	Encrypted Channel	Obfuscated Files or Information	
<u>T1021</u>	<u>T1003</u>	<u>T1036</u>	<u>T1102</u>	
Remote Services	OS Credential Dumping	Masquerading	Web Service	
<u>T1082</u>	<u>T1113</u>			
System Information	Screen Capture			

X Indicators of Compromise (IOCs)

ТҮРЕ	VALUE	10101
MD5	915179579ab7dc358c41ea99e4fcab52, 2cae8dc37baf5216a3e7342aac755894, b52c71318815836126f1257a180a74e7, 5171e84d59fd2bbef9235dfa6459ad8a, 99f2fd309b88b8ec3a9c9c50dddb08b5, bd76f54d26bf00686da42f3664e3f2ae, b859f38bfa8bba05d7c0eb4207b95037, b6e3894c17fb05db754a61ac9a0e5925, d802290cb9e5c3fed1ba1a8daf827882, 8e0143a6fd791c859d79445768af44d1, 5d938b4316421a2caf7e2e0121b36459, 889b83d375a0fb00670af5276816080e	00001 00101 00101 00101 00101 00101

ТҮРЕ	VALUE		
	c49d4acad68955692c32d5fa924eb5bb3f95a192d2c70ff6b0b2ce6 3c6afe985, be588c14f7ed3252e36c7db623c09cde8e01fa850c5431d9d621ac9		
	42695804d, 0a0fefb509a85c069539003c03c4f9c292d415fb27d18aef750446b6 3533b432,		
	84e9eb9615f16316adac6c261fe427905bf1a3d36161e2e4f7658cd 177a2c460, 206b204a5fad820a2ff1fac0ab261a2d665b70f2f27188b502b5d140		
	296b294a5fed830c2ffffac9cb36fa2d665b70f2f37f88b593b5d140 1cd6ca28, 225b7abe861375141f6cfebde4981f615cb2aa4d913faf85172666fa		
SHA256	4b4b320b, d1deeaf0f1807720b11d0f235e3c134a1384054e4c3700eabab26b3 a39d2c19a		
	20987f7163c8fe466930ece075cd051273530dfcbe8893600fd21fcf b58b5b08,		
	88e28107fbf171fdbcf4abbc0c731295549923e82ce19d5b6f6fefa3c 9f497c9, 29c1f28d0bdc70o50588964ccf3o62dabb871dca82282205a0c6414		
	4c7860155, 2eabe990f91bfc480c09db02a4de43116b40da2d6eaad00a034adf4		
	214dac4d1, 9faeb1c8a4b9827f025a63c086d87c409a369825428634b2b01314 460a332c6c		
	tcpiphlpsvc.dll, eapphost.dll,		
	Act.doc, ctec.dll,		
	windows.png, ksmgsyck.dx4.exe,		
File Name	PlaySndSrv.dll,		
	BeardShell.dll,		
	tmsnrb41da2y867.tmp, cache_ertf5gw56iikh5dwe		
	WordIllustration.png		
File Path	%APPDATA%\microsoft\protect\ctec.dll,		
	%LOCALAPPDATA%\Packages\PlayShdSrv.dil, %LOCALAPPDATA%\windows.png,		
	%TEMP%\cache_d3qf5gw56jikh5tb6, %TEMP%\io1sprb41da2gp5_tmp		
	%USERPROFILE%\Music\Samples\sample-03.wav,		
	%TEMP%\cache_ertf5gw56jikh5dwe, %PUBLIC%\Pictures\WordIllustration.ppg		
	for oblice a ministration.phg,		

ТҮРЕ	VALUE	
File Path	HKEY_CURRENT_USER\Software\Classes\CLSID\{2227A280-3AEA- 1069-A2DE-08002B30309D}\InProcServer32, HKEY_CURRENT_USER\Software\Classes\CLSID\{2DEA658F-54C1- 4227-AF9B-260AB5FC3543}\InProcServer32, Microsoft\Windows\Multimedia\SystemSoundsService, C:\Windows\System32\tcpiphlpsvc.dll, C:\Windows\System32\wbem\eapphost.dll	011
Host Name	Api[.]icedrive[.]net, App[.]koofr[.]net	011
Domains	icedrive[.]net, koofr[.]net	001
URLs	hxxps[://]api.icedrive[.]net, hxxps[://]app.koofr[.]net	1.0.1

S References

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https://hivepro.com/threat-advisory/operation-roundpress-apt28s-webmailespionage-exposed/

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