

Threat Level Amber

Hiveforce Labs

THREAT ADVISORY

X ATTACK REPORT

XDSpy Expands Arsenal with New Tool: XDSpy.DSDownloader

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TA Number

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Summary

Attack Discovered: July 2024

Attack Region: Russia and Moldova Threat Actor: XDSpy (aka UAC-0033) Malware: XDSpy.DSDownloader

Attack: A phishing campaign orchestrated by the obscure cyber espionage group XDSpy has been targeting entities in Russia. The campaign's victims include a tech company specializing in software for cash registers and an unidentified organization in Transnistria, the Russian-controlled breakaway region in Moldova. The infection chains from this campaign led to the

discovery of novel malware known as XDSpy.DSDownloader.

X Attack Regions



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Attack Details

- In July 2024, the XDSpy cyber espionage group initiated a new series of attacks targeting Russian companies. The attackers employed email spoofing to impersonate legitimate senders, increasing the likelihood that recipients would open the phishing emails. These emails contained links that, when clicked, downloaded a RAR archive presumed to contain the XDSpy.DSDownloader malware.
- Inside the RAR archive were two executable files in PE32+ format: a legitimate executable and a malicious dynamic link library (DLL) named msi.dll. The attackers used the DLL Side-Loading technique, leveraging the legitimate executable to load and execute the malicious DLL, classified as XDSpy.DSDownloader. This malware is a previously unknown tool used by XDSpy in these attacks.
- XDSpy.DSDownloader is a sophisticated piece of malware used by the XDSpy cyber espionage group. It operates by extracting a decoy document from the RCDATA resource and copying both the msi.dll file and a legitimate executable to the "C:\Users\Public" directory. To ensure persistence, it creates a parameter named "{legit_exe_filename}" in the registry key, attaching the malware to system startup.
- XDSpy.DSDownloader malware facilitates the download of a next-stage malware payload from a malicious server via a specific link. In previous campaigns, XDSpy has utilized XDDown, a related tool that drops additional plugins for various malicious activities. These plugins are designed to gather system information, enumerate the C: drive, monitor external drives, exfiltrate local files, and collect passwords.
- XDSpy is a cyberespionage group that remained largely undetected for more than nine years, despite its recent surge in activity over the past few months. The group primarily focuses on stealing documents from government entities in Eastern Europe and the Balkans. This specific targeting makes XDSpy particularly intriguing and warrants close monitoring. Its long period of stealth, combined with its intensified operations, indicates a sophisticated and persistent threat actor.

Recommendations



Exercise Caution with Unsolicited Emails: Always exercise caution when receiving unexpected or urgent emails, especially those from unknown sources. Avoid downloading attachments from unsolicited emails to mitigate the risk of malware infections.



Robust Endpoint Security: Deploy advanced endpoint security solutions that include real-time malware detection and behavioral analysis. Regularly update antivirus and anti-malware software to ensure the latest threat definitions are in place. A multi-layered approach to endpoint security can prevent malwares from infiltrating the network through vulnerable endpoints and can detect and block malicious activities effectively.



Implement Behavioral Analysis: Deploy advanced security solutions that employ behavioral analysis and anomaly detection to identify unusual patterns of activity indicative of malware presence. This proactive approach can help catch sophisticated threats before they fully compromise your systems.

Potential MITRE ATT&CK TTPs

TA0001 Initial Access	TA0002 Execution	TA0003 Persistence	TA0005 Defense Evasion
TA0010 Exfiltration	T1566 Phishing	T1566.002 Spearphishing Link	T1574 Hijack Execution Flow
T1574.002 DLL Side-Loading	T1204 User Execution	T1204.001 Malicious Link	T1140 Deobfuscate/Decode Files or Information
T1547 Boot or Logon Autostart Execution	T1547.001 Registry Run Keys / Startup Folder		

№ Indicators of Compromise (IOCs)

	ТҮРЕ	VALUE
AND THE RESIDENCE OF THE PERSON OF THE PERSO	SHA1	a84d557cc726f521354a308436b0620fbe1a051f. 7741436dcaf11e16e330cc52a133b6ef59a12812, 00bde6ad42ef3cbef9f0f0cc054014435432b17c, 02760b55fa69392d99633c271e43108c64c21807, 68d83a5d25d62f0b15912fb70474dd371db1947d
A STATE OF THE PARTY OF THE PAR	Domains	protej[.]org, nashtab[.]org, general-resources[.]com, sbordokumentov[.]com
The state of the	IPv4	89[.]114[.]69[.]65, 89[.]114[.]69[.]48, 82[.]221[.]129[.]24, 185[.]56[.]136[.]50, 159[.]100[.]6[.]5
	URLs	hxxps://protej[.]org/zpwidnydav/?e&n=bVq7NwlXhjYOMT, hxxps://protej[.]org/zpwidnydav/?e&n=bVq7NwlXhjYOMT, hxxps://protej[.]org/zpwidnydav/?n=wHFbIDNW9YutX, hxxps://nashtab[.]org/biyasqbuk4/?e&n=GuVZoipdl2Ulxk, hxxps://nashtab[.]org/pqwebyug3/?n=PDVXCGFwWnCaNv, hxxps://obshchiye-resursy[.]com/zpwidnydav/?e&n=V1Z82iODc5twdu, hxxps://obshchiye-resursy[.]com/zpwidnydav/?n=Jo9EDoZiYATO77, hxxps://sbordokumentov[.]com/snirboubd/?n=vAR1Xp9BG2nStq, hxxps://sbordokumentov[.]com/snirboubd/?n=ygTQMPQdzlcZ9E
	File Path	C:\Users\Public\pdf_20240615_00003645.exe, C:\Users\Public\pismo-22-07-2024_0001.exe, C:\Users\Public\msi.dll, %USERPROFILE%\pdf_20240615_00003645.pdf, %USERPROFILE%\pismo-22-07-2024_0001.pdf, C\Users\Public\zwrdntjl.exe, C:\Users\Public\spbbpzmq.exe, C:\Users\Public\yvpxqixd.exe
X	Registry	[HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run] pdf_20240615_00003645.exe = "C:\Users\Public\pdf_20240615_00003645.exe", [HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run] pismo-22- 07-2024_0001.exe = "C:\Users\Public\pismo-22-07-2024_0001.exe"

ТҮРЕ	VALUE
SHA256	45bbe6950cabe649513edbe819440935d6be5a6ef715c01f7a958622252 62da0, 03ea832f0b7531026f1d87dc84ec03f65fe11f3e9de032e5e862b70d8cf0d 2d8, 65a953a80a0accd3b9a5b0f5c6978dad223273bd4d5ec892737e569c864f c73c, 01d092290e410617eb3369bf3682af186ae8da0937ee90acadba75ee5d4 e17e4, 78ba21a60241da65cf65e951773bbfd606402a3bf43acc5201e95220d13e 8817
MD5	1c34280a2228793aad681089179ec0b3, 94aab070678e6d84f0287cfedc037300, 2982ac131e49354ec51e645f9db53b40, 0fd1128bc81eca818909d50f9806fd85, 3bd819440fbc91a530c3c659d99564e3

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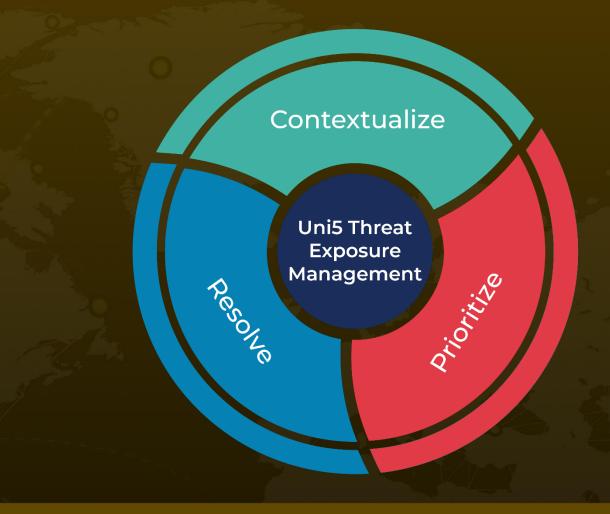
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