

Threat Level Amber

Hiveforce Labs

THREAT ADVISORY

X ATTACK REPORT

HTTPSnoop and PipeSnoop Malware Target Telecoms in the Middle East

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Summary

First Seen: April 17, 2023

Actor Name: ShroudedSnooper Attack Region: Middle East

Targated Industry: Telecommunications Malware: HTTPSnoop and PipeSnoop

Attack: HTTPSnoop and PipeSnoop malware targeting Middle East telecom providers, part of the ShroudedSnooper intrusion set, masquerading as legitimate components

while executing shellcode via HTTP and IPC pipes, posing a threat to critical

infrastructure.

X Attack Regions



Attack Details

- A new malware family called "HTTPSnoop" targeting telecommunications providers in the Middle East. This malware acts as a backdoor and uses novel techniques to interact with Windows HTTP kernel drivers, allowing it to listen for specific HTTP(S) URLs and execute content on infected endpoints. Additionally, a related implant called "PipeSnoop" can accept and execute arbitrary shellcode.
- Both HTTPSnoop and PipeSnoop can masquerade as legitimate security software components, making them hard to detect. Cisco Talos attributes these implants to a new intrusion set called "ShroudedSnooper" and believes they are used to gain initial access through internet-facing servers, particularly those mimicking Microsoft's Exchange Web Services.
- This activity is part of a broader trend of sophisticated actors targeting telecoms, which are crucial due to their control over critical infrastructure assets. Cisco Talos' findings align with reports from other cybersecurity firms detailing attacks on telecom companies worldwide. HTTPSnoop relies on low-level Windows APIs to bind to specific HTTP(S) URL patterns and execute shellcode received from incoming requests.
- specific URL patterns. It can masquerade as a legitimate security component, such as Palo Alto Networks' Cortex XDR application. PipeSnoop, on the other hand, is designed to work within compromised enterprises and communicates through Windows IPC pipes.

HTTPSnoop comes in several variants, each configured to listen to

Both HTTPSnoop and PipeSnoop attempt to blend in with benign network traffic, using URL patterns that mimic Microsoft Exchange Web Services, OfficeTrack, and other telecommunications-related services.

Recommendations



Network Segmentation: Isolate critical infrastructure and sensitive systems from the rest of the network to limit lateral movement in case of a breach. Implement network segmentation to reduce the potential impact of a successful attack.



Endpoint Protection: Deploy reputable endpoint protection software that includes anti-malware and behavior-based detection capabilities to identify and block suspicious activities. Regularly update antivirus and anti-malware software to ensure the latest threat definitions by the malware.



Regular Patching and Updates: Keep all operating systems, applications, and security software up-to-date with the latest patches and updates to address vulnerabilities.

Potential MITRE ATT&CK TTPs

TA0001	TA0042	<u>TA0005</u>	<u>TA0002</u>
Initial Access	Resource Development	Defense Evasion	Execution
<u>TA0004</u>	<u>TA0011</u>	<u>T1059</u>	<u>T1584</u>
Privilege Escalation	Command and Control	Command and Scripting Interpreter	Compromise Infrastructure
<u>T1036</u>	<u>T1574.001</u>	<u>T1190</u>	<u>T1106</u>
Masquerading	DLL Search Order Hijacking	Exploit Public-Facing Application	Native API
<u>T1140</u>	<u>T1027</u>		
Deobfuscate/Decode Files or Information	Obfuscated Files or Information		

№ Indicators of Compromise (IOCs)

TYPE	VALUE		
SHA256	c5b4542d61af74cf7454d7f1c8d96218d709de38f94ccfa7c16b15f726d c08c0, 04cf425e57e7d511f03189749c8c0a95483eeeb4c423e9ee1a6a766d2f e0094c, 3875ed58c0d42e05c83843b32ed33d6ba5e94e18ffe8fb1bf34fd7dedf 3f82a7, 7495c1ea421063845eb8f4599a1c17c105f700ca0671ca874c5aa5aef3 764c1c, 1146b1f38e420936b7c5f6b22212f3aa93515f3738c861f499ed104786 5549cb, 9117bd328e37be121fb497596a2d0619a0eaca44752a1854523b8af46 a5b0ceb, e1ad173e49eee1194f2a55afa681cef7c3b8f6c26572f474dec7a42e9f0 cdc9d		
URLs	http[:]//+[:]80/Temporary_Listen_Addresses/, https[:]//+[:]443/Temporary_Listen_Addresses/, https[:]//+[:]443/autodiscover/autodiscovers/, https[:]//+[:]444/autodiscover/autodiscovers/, https[:]//+[:]443/ews/exchange/, https[:]//+[:]443/autodiscover/autodiscover/, https[:]//+[:]444/autodiscover/autodiscover/, https[:]//+[:]444/ews/exchanges/, https[:]//+[:]443/ews/exchanges/, https[:]//+[:]443/ews/exchange/, https[:]//+[:]443/ews/exchange/, https[:]//+[:]444/ews/, https[:]//+[:]444/ews/, https[:]//+[:]444/ews/autodiscovers/, https[:]//+[:]443/ews/autodiscovers/, https[:]//+[:]443/autodiscover/autodiscoverrs/, https[:]//+[:]443/autodiscover/course/, https[:]//+[:]443/autodiscover/because/, https[:]//+[:]443/autodiscover/oppose/, https[:]//+[:]443/autodiscover/surprise/, https[:]//+[:]443/autodiscover/surprise/, https[:]//+[:]443/autodiscover/surprise/, https[:]//+[:]443/autodiscover/surprise/, https[:]//+[:]443/autodiscover/surprise/, https[:]//+[:]443/autodiscover/surprise/, https[:]//+[:]443/autodiscover/surprise/, https[:]//+[:]443/autodiscover/make/,		

ТҮРЕ	VALUE
URLs	https[:]/+[:]443/autodiscover/tiger/, https[:]/+[:]443/autodiscover/verb/, https[:]/+[:]443/autodiscover/palace/, https[:]/+[:]443/autodiscover/congress/, https[:]/+[:]443/autodiscover/expire/, https[:]/+[:]443/ews/often/, https[:]/+[:]443/ews/often/, https[:]/+[:]443/ews/evoke/, https[:]/+[:]443/ews/pitch/, https[:]/+[:]443/ews/sense/, https[:]/+[:]443/ews/sense/, https[:]/+[:]443/ews/feature/, https[:]/+[:]443/ews/feature/, https[:]/+[:]443/ews/fitp/, https[:]/+[:]443/ews/fazz/, https[:]/+[:]443/ews/gazz/, https[:]/+[:]443/ews/powder/, https[:]/+[:]444/autodiscover/verb/, https[:]/+[:]444/autodiscover/verb/, https[:]/+[:]444/autodiscover/congress/, https[:]/+[:]444/autodiscover/congress/, https[:]/+[:]444/ews/feature/, https::]/+[:]444/ews/feature/, https::]//*[:]80/orasaagrumm/, https::]//*[:]80/vixmvmvbvrzhoo/, https::]//*[:]80/vixmvmvbvrzhoo/, https::]//*[:]443/ela/, https::]//*[:]443/ela/, https::]//*[:]443/ela/, https::]//*[:]443/ela/, https::]//*[:]443/ela/, https::]//*[:]443/ela/, https::]//*[:]443/ela/, https::]//*[:]443/ela/, https::]//*[:]443/ela/, https:://*[:]443/ela/,

ТҮРЕ	VALUE
URLs	https[:]//*[:]443/ofasdaqgrumm/, https[:]//*[:]443/utkvvxwkwgseowps/, https[:]//*[:]443/xewnsfqdcxmhwb/, https[:]//*[:]443/vzixmvmvbvrzhoo/, https[:]//+[:]80/test_srv/, https[:]//+[:]443/test_srv/

References

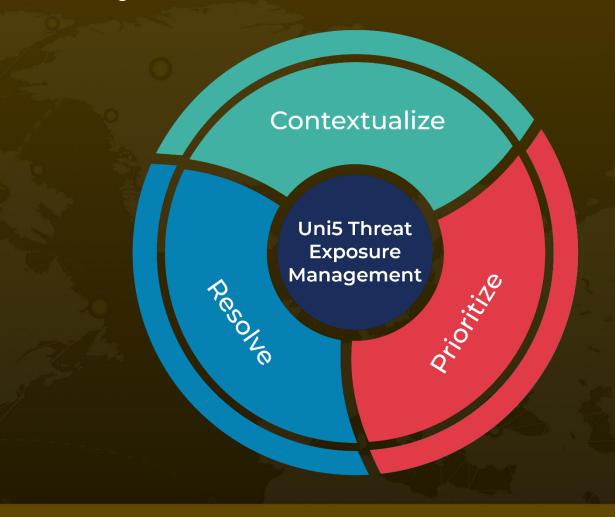
 $\underline{https://blog.talosintelligence.com/introducing-shrouded-snooper/}$

https://github.com/Cisco-Talos/IOCs/blob/main/2023/09/introducing-shrouded-snooper.txt

What Next?

At <u>Hive Pro</u>, 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 <u>HivePro Uni5</u>: Threat Exposure Management Platform.



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