

HiveForce Labs

THREAT ADVISORY

**ATTACK REPORT**

New Exploit Method Bypasses ProxyNotShell Mitigations

Date of Publication

December 21, 2022

Admiralty Code

A1

TA Number

TA2022309





Summary

First appeared: September 2022

Impacted Products: Microsoft Exchange servers

Attack: Bypassing Microsoft Exchange bug ProxyNotShell mitigations with a new exploit method

CVEs

CVE	NAME	PATCH
CVE-2022-41080	Microsoft Exchange Server Elevation of Privilege Vulnerability	
CVE-2022-41082	Microsoft Exchange Server Remote Code Execution Vulnerability	
CVE-2022-41040	Microsoft Exchange Server Server-Side Request Forgery Vulnerability	
CVE-2022-41123	Microsoft Exchange Server Elevation of Privilege Vulnerability	

Attack Details

#1

A new exploit method has been found in the mitigations of the Microsoft Exchange vulnerability ProxyNotShell URL rewrite that allows for remote code execution (RCE) on compromised servers through Outlook Web Access (OWA). The threat actors responsible for this new exploit have been identified as members of the Play ransomware group.

#2

As their common entry vectors, the threat actors used the CVE-2022-41040 and CVE-2022-41082 (ProxyNotShell) vulnerabilities, as well as the CVE-2022-41080 privilege escalation vulnerability on Microsoft Exchange servers. Upon gaining access through these exploits, they leveraged Plink and AnyDesk (remote access tools) to maintain persistence and evade detection on the server.

Recommendations



Security Leaders

Phishing simulations and routine education and awareness training and communications rarely account for MFA fatigue and web browser hygiene. Integrate and communicate all lessons learned.



Security Engineers

- **Uni5 Users:** This is an actionable threat advisory in HivePro Uni5. Prioritize and block all indicators attributed to the threat actors and attacks through your Command Center. Test your controls with Uni5's Breach & Attack Simulation.
- **All Engineers:** Refer to and action upon the 'Potential MITRE ATT&CK TTPs' & 'Indicators of Compromise (IoC)' on the following pages.

Potential MITRE ATT&CK TTPs

<u>TA0042</u> Resource Development	<u>TA0001</u> Initial Access	<u>TA0002</u> Execution	<u>TA0003</u> Persistence
<u>TA0005</u> Defense Evasion	<u>T1059</u> Command and Scripting Interpreter	<u>T1059.003</u> Windows Command Shell	<u>T1574.001</u> Hijack Execution Flow: DLL Search Order Hijacking
<u>T1059.001</u> Powershell	<u>T1588.006</u> Vulnerabilities	<u>T1587</u> Develop Capabilities	<u>T1588</u> Obtain Capabilities
<u>T1068</u> Exploitation for Privilege Escalation			

Indicator of Compromise (IOCs)

TYPE	VALUE
URLs	http://179.60.149.28:4427/ http://instance-cmjrnri-relay.screenconnect.com

Patch Link

<https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2022-41082>

<https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2022-41080>

<https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2022-41040>

<https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2022-41123>

References

<https://twitter.com/Purp1eW0lf/status/1602989967776808961?s=20>

<https://www.crowdstrike.com/blog/owassrf-exploit-analysis-and-recommendations/>

What Next?

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