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Hiveforce Labs THREAT ADVISORY

並 VULNERABILITY REPORT

Microsoft's April 2024 Patch Tuesday Addresses Two Zero-day Vulnerabilities

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Summary

First Seen: April 9, 2024

Affected Platforms: Microsoft Windows, Microsoft Azure Kubernetes, Microsoft Windows SmartScreen Prompt, Microsoft Windows Proxy Driver, Microsoft Defender for

IoT, and Microsoft Windows DHCP Server

Impact: Denial of Service (DoS), Elevation of Privilege (EoP), Information Disclosure,

Remote Code Execution (RCE), Spoofing, and Security Feature Bypass

☆ CVEs

CVE	NAME	AFFECTED PRODUCT	ZERO -DAY	CISA KEV	PATCH
CVE-2024- 26234	Microsoft Windows Proxy Driver Spoofing Vulnerability	Microsoft Windows Proxy Driver	⊘	8	⊘
CVE-2024- 29988	Microsoft Windows SmartScreen Prompt Security Feature Bypass Vulnerability	Microsoft Windows SmartScreen Prompt	(8	⊘
CVE-2024- 29053	Microsoft Defender for IoT Remote Code Execution Vulnerability	Microsoft Defender for IoT	8	8	⊘
CVE-2024- 21323	Microsoft Defender for IoT Remote Code Execution Vulnerability	Microsoft Defender for IoT	8	8	⊘
CVE-2024- 21322	Microsoft Defender for IoT Remote Code Execution Vulnerability	Microsoft Defender for loT	8	8	⊘

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CVE	NAME	AFFECTED PRODUCT	ZERO -DAY	CISA KEV	РАТСН
CVE-2024- 29990	Microsoft Azure Kubernetes Service Confidential Container Elevation of Privilege Vulnerability	Microsoft Azure Kubernetes	8	8	⊘
CVE-2024- 26158	Microsoft Install Service Elevation of Privilege Vulnerability	Microsoft Install Service	8	8	⊘
CVE-2024- 26209	Microsoft Local Security Authority Subsystem Service Information Disclosure Vulnerability	Microsoft Local Security Authority Subsystem Service	8	8	⊘
CVE-2024- 26211	Microsoft Windows Remote Access Connection Manager Elevation of Privilege Vulnerability	Microsoft Windows	8	8	⊘
CVE-2024- 26212	Microsoft Windows DHCP Server Service Denial of Service Vulnerability	Microsoft Windows DHCP Server	8	8	⊘
CVE-2024- 26218	Windows Kernel Elevation of Privilege Vulnerability	Microsoft Windows	8	8	⊘
CVE-2024- 26230	Windows Telephony Server Elevation of Privilege Vulnerability	Microsoft Windows	8	8	⊘
CVE-2024- 26256	Microsoft Windows libarchive Remote Code Execution Vulnerability	Microsoft Windows	8	8	⊘

Vulnerability Details

- Microsoft's April 2024 Patch Tuesday includes security updates for a total of 149 vulnerabilities, comprising three critical, 142 important, three moderate, and one low severity vulnerability. The breakdown of vulnerabilities includes 31 Elevation of Privilege, 27 Security Feature Bypass, 67 Remote Code Execution, 12 Information Disclosure, 7 Denial of Service, and 5 Spoofing vulnerabilities.
- The updates cover various Microsoft products such as Office, SQL Server, .NET, Azure, Defender for IoT, Windows Kernel, Windows Hyper-V, Windows DHCP Server, Windows DNS Server, and more. Notably, Microsoft patched six non-Microsoft vulnerabilities, which include three Chromium-based Microsoft Edge browser vulnerabilities, bringing the total number of CVEs to 155. This advisory pertains to 13 CVEs that could potentially be exploited.
- Two zero-day vulnerabilities have been fixed. The first one, CVE-2024-26234, is a proxy driver spoofing vulnerability linked to a malicious backdoor file within an Android screen mirroring app called LaiXi. Microsoft addressed this issue by revoking the relevant driver files.
- The second exploited zero-day vulnerability, CVE-2024-29988, is a SmartScreen prompt security feature bypass associated with Water Hydra attacks. Security researchers confirms its exploitation, enabling bypassing of the Mark of the Web security feature. This flaw is similar to CVE-2024-21412, previously exploited by Water Hydra to deliver DarkMe malware to financial traders, bypassing Microsoft Defender SmartScreen.
- Microsoft Defender for IoT has been updated to address three critical remote code execution (RCE) vulnerabilities, however requiring local foothold on system. One vulnerability (CVE-2024-21322) requires administrative access, limiting its potential impact. These vulnerabilities could allow attackers to upload malicious files or overwrite existing files on Defender for IoT devices.
- The Microsoft OLE DB Driver for SQL Server sees patches for 38 RCE vulnerabilities, possibly a record for a single component. Notably, there are no security patches for Exchange this month. Microsoft introduces Common Weakness Enumeration (CWE) assessments alongside CVSS data in advisories, providing deeper insights into vulnerabilities. The addition of CWE helps in understanding root causes, aiding developers in improving SDLC workflows and defenders in directing defense strategies effectively.

W Vulnerabilities

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2024- 26234	Windows: 10 - 11 23H2 Windows Server: 2008 - 2022 23H2	cpe:2.3:o:microsoft:win dows:*:*:*:*:*:* cpe:2.3:o:microsoft:win dows_server:*:*:*:*:*: :*:*	CWE-284
CVE-2024- 29988	Windows: 10 - 11 23H2 Windows Server: 2019 - 2022 23H2	cpe:2.3:o:microsoft:win dows:*:*:*:*:*:* cpe:2.3:o:microsoft:win dows_server:*:*:*:*:* :*:*	CWE-693
CVE-2024- 29053	Microsoft Defender for IoT: All versions	cpe:2.3:a:microsoft:defe nder_for_iot:*:*:*:*:* :*:*	CWE-36
CVE-2024- 21323	Microsoft Defender for IoT: All versions	cpe:2.3:a:microsoft:defe nder_for_iot:*:*:*:*:* :*:*	CWE-36
CVE-2024- 21322	Microsoft Defender for IoT: All versions	cpe:2.3:a:microsoft:defe nder_for_iot:*:*:*:*:* :*:*	CWE-77
CVE-2024- 29990	Azure Kubernetes Service Confidential Containers: All versions	cpe:2.3:a:microsoft:azur e_kubernetes_service_c onfidential_containers:* :*:*:*:*:*:*	CWE-284
 CVE-2024- 26158	Windows: 10 - 11 23H2 Windows Server: 2008 - 2022 23H2	cpe:2.3:o:microsoft:win dows:*:*:*:*:*:* cpe:2.3:o:microsoft:win dows_server:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*	CWE-59

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2024- 26209	Windows: 10 - 11 23H2 Windows Server: 2012 R2 - 2022 23H2	cpe:2.3:o:microsoft:win dows:*:*:*:*:*:* cpe:2.3:o:microsoft:win dows_server:*:*:*:*:*:*	CWE-908
CVE-2024- 26211	Windows: 10 - 11 23H2 Windows Server: 2012 R2 - 2022 23H2	cpe:2.3:o:microsoft:win dows:*:*:*:*:*:*:* cpe:2.3:o:microsoft:win dows_server:*:*:*:*:*:*:*	CWE-122
CVE-2024- 26212	Windows Server: 2008 R2 - 2022 23H2	cpe:2.3:o:microsoft:win dows_server:*:*:*:*:* :*:*	CWE-400
CVE-2024- 26218	Windows: 10 - 11 23H2 Windows Server: 2019 R2 - 2022 23H2	cpe:2.3:o:microsoft:win dows:*:*:*:*:*:* cpe:2.3:o:microsoft:win dows_server:*:*:*:*:*:*	CWE-367
CVE-2024- 26230	Windows: 10 - 11 23H2 Windows Server: 2008 R2 - 2022 23H2	cpe:2.3:o:microsoft:win dows:*:*:*:*:*:* cpe:2.3:o:microsoft:win dows_server:*:*:*:*:*:*	CWE-416
CVE-2024- 26256	Windows: 11 22H2 - 11 23H2 Windows Server: 2022 23H2	cpe:2.3:o:microsoft:win dows:*:*:*:*:*:*:* cpe:2.3:o:microsoft:win dows_server:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*	CWE-122

Recommendations



Conduct an extensive service exposure evaluation to identify any vulnerable services that may be publicly accessible. Take immediate and decisive action to address any identified vulnerabilities, either by installing essential <u>patches</u> or adopting security measures.



Keep your systems up to date by implementing the most recent security updates. To avoid the introduction of new vulnerabilities, follow security rules adapted to unique devices. Furthermore, to strengthen the resilience of devices and apps exposed to the internet, thoroughly review their configurations.



Prioritize critical vulnerabilities, especially CVE-2024-26234 (Microsoft Windows Proxy Driver Spoofing Vulnerability) and CVE-2024-29988 (Microsoft Windows SmartScreen Prompt Security Feature Bypass Vulnerability). These vulnerabilities have the potential for severe exploitation and should be addressed urgently.



Implement network segmentation to restrict unauthorized access and reduce the impact of potential attacks. This can be especially effective in scenarios where network adjacency is a factor.



Adhere to the idea of "least privilege" by giving users only the essential permissions they need for their tasks. This strategy reduces the effects of vulnerabilities related to privilege escalation.

⇔ Potential MITRE ATT&CK TTPs

<u>TA0004</u>	<u>TA0042</u>	<u>TA0007</u>	<u>TA0002</u>
Privilege Escalation	Resource Development	Discovery	Execution
<u>TA0003</u>	<u>TA0005</u>	<u>TA0040</u>	<u>T1588.005</u>
Persistence	Defense Evasion	Impact	Exploits
<u>T1059</u>	<u>T1588.006</u>	<u>T1068</u>	<u>T1203</u>
Command and Scripting Interpreter	Vulnerabilities	Exploitation for Privilege Escalation	Exploitation for Client Execution

<u>T1082</u>	<u>T1566</u>	<u>T1588</u>	<u>T1498</u>
System Information Discovery	Phishing	Obtain Capabilities	Network Denial of Service

<u>T1036</u>

Masquerading

Patch Details

https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-26234
https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-29988
https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-29053
https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-21323
https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-21322
https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-21322
https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-29990
https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-26158
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https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-26230
https://msrc.microsoft.com/update-guide/vulnerability/CVE-2024-26256

88 References

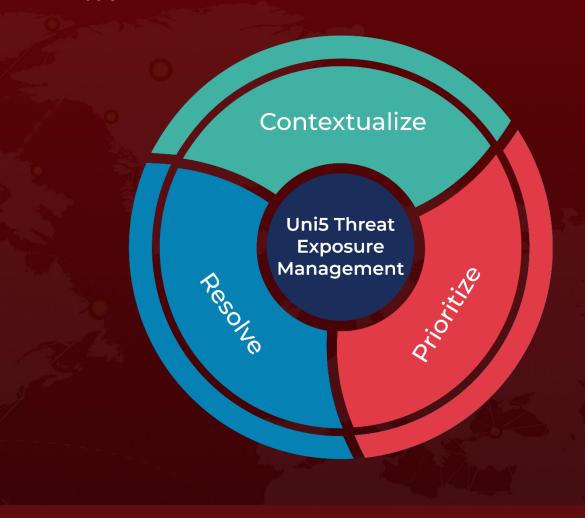
https://msrc.microsoft.com/update-guide/releaseNote/2024-apr

https://www.hivepro.com/threat-advisory/water-hydra-exploits-cve-2024-21412-to-target-financial-traders/

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.

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