

# Microsoft Defender Vulnerability Management

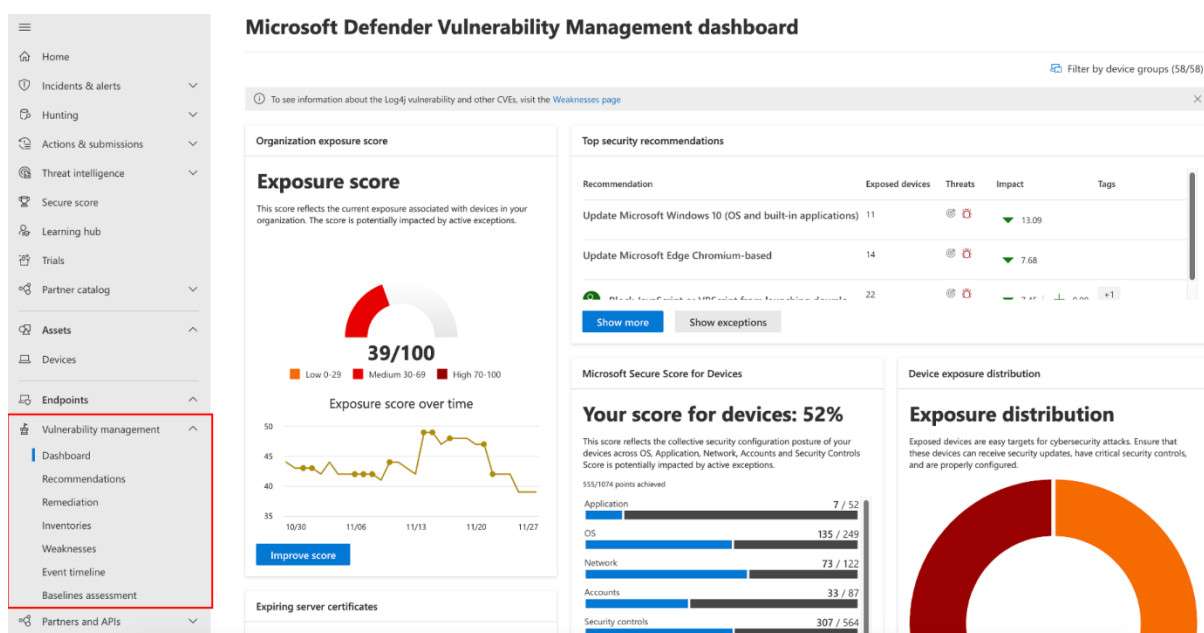
Vulnerability management is a proactive cybersecurity practice aimed at identifying, evaluating, treating, and reporting security vulnerabilities in systems and software. It involves a systematic approach to discovering potential weaknesses through various methods such as scanning and testing, followed by assessing the risks associated with each vulnerability. The process prioritizes vulnerabilities based on their severity and potential impact, allowing organizations to allocate resources effectively for remediation. This includes applying patches, reconfiguring systems, or implementing additional security measures. Continuous monitoring and periodic reviews are crucial to ensure that new vulnerabilities are promptly addressed, thereby maintaining a robust security posture and protecting sensitive data from potential threats.

Microsoft Defender Vulnerability Management is an advanced security solution integrated into Microsoft Defender for Endpoint, designed to enhance an organization's vulnerability management efforts. It provides comprehensive capabilities for identifying, assessing, and mitigating vulnerabilities across various endpoints and devices. Key features include continuous vulnerability scanning, real-time risk assessment, and actionable insights that prioritize vulnerabilities based on their potential impact.

The platform offers detailed remediation guidance, integrated patch management, and automated workflows to streamline the resolution process. Additionally, it provides in-depth visibility into the security posture of an organization's IT environment, allowing for proactive defense against emerging threats. With its seamless integration into the broader Microsoft 365 security ecosystem, Microsoft Defender Vulnerability Management helps organizations maintain a strong security posture and reduce the attack surface.

# Examples: -

1. **Dashboard:** Provides information about vulnerabilities, exposure, and recommendations. You can see recent remediation activities, exposed devices, and ways to improve your company's overall security. Each card in the dashboard includes a link to more detailed information or to a page where you can take a recommended action.



**2. Recommendations:** Lists current security recommendations and related threat information to review and consider. When you select an item in the list, a flyout panel opens with more details about threats and actions you can take.

Microsoft 365 Defender

Search

### Security recommendations

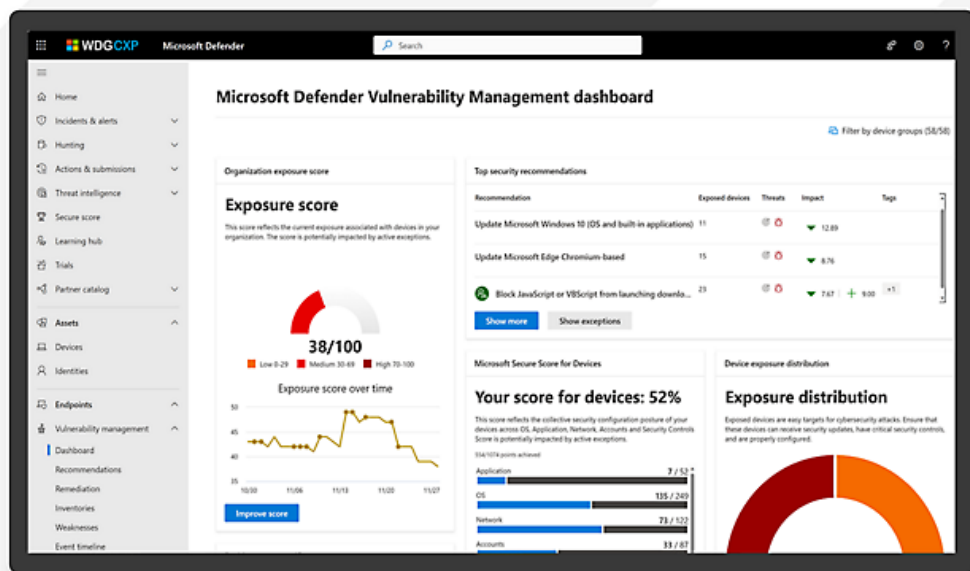
1.69k discovered devices are not protected  
Onboard them now

Export 854 items Search Filter Customize columns

Filters: Status: Active +1

Security recommendation	OS platform	Weaknesses	Related component	Threats	Exposed devices	Remediation type	Remediation activities	Impact	Tags
<input type="checkbox"/> Update Microsoft Windows Server 2022 (OS and built-in applications)	Windows	659	Microsoft Windows Server 2022		591 / 846	Software update	0	▼ 9.06	
<input type="checkbox"/> Update Microsoft Defender For Endpoint	Windows	1	Microsoft Defender For Endpoint		956 / 3.36k	Software update	0	▼ 6.76	
<input checked="" type="checkbox"/> Block executable files from running unless they meet a prevalence, age, o...	Windows	1	Security controls (Attack Surface Redu...		1.38k / 1.38k	Configuration cha...	0	▼ 5.39   +9.00	User impact assessment
<input checked="" type="checkbox"/> Block untrusted and unsigned processes that run from USB	Windows	1	Security controls (Attack Surface Redu...		1.38k / 1.38k	Configuration cha...	0	▼ 5.37   +8.97	User impact assessment
<input checked="" type="checkbox"/> Block persistence through WMI event subscription	Windows	1	Security controls (Attack Surface Redu...		1.36k / 1.36k	Configuration cha...	4	▼ 5.32   +8.97	User impact assessment
<input checked="" type="checkbox"/> Block Adobe Reader from creating child processes	Windows	1	Security controls (Attack Surface Redu...		1.36k / 1.38k	Configuration cha...	0	▼ 5.29   +8.83	User impact assessment
<input checked="" type="checkbox"/> Block all Office applications from creating child processes	Windows	1	Security controls (Attack Surface Redu...		1.36k / 1.38k	Configuration cha...	0	▼ 5.29   +8.84	Human operated ransomware +1
<input checked="" type="checkbox"/> Block Office applications from creating executable content	Windows	1	Security controls (Attack Surface Redu...		1.35k / 1.38k	Configuration cha...	0	▼ 5.28   +8.80	User impact assessment
<input checked="" type="checkbox"/> Block Office communication application from creating child processes	Windows	1	Security controls (Attack Surface Redu...		1.34k / 1.38k	Configuration cha...	0	▼ 5.25   +8.76	User impact assessment
<input checked="" type="checkbox"/> Block JavaScript or VBScript from launching downloaded executable cont...	Windows	1	Security controls (Attack Surface Redu...		1.37k / 1.38k	Configuration cha...	0	▼ 5.83   +8.97	User impact assessment
<input type="checkbox"/> Update Microsoft Windows Server 2019 (OS and built-in applications)	Windows	2192	Microsoft Windows Server 2019		161 / 562	Software update	0	▼ 2.19	

**3. Remediation:** Lists any remediation actions and their status. Remediation activities can include sending a file to quarantine, stopping a process from running, and blocking a detected threat from running. Remediation activities can also include updating a device, running an antivirus scan, and more.



## 4. Inventories: Lists software and apps currently in use in your organization. You'll see browsers, operating systems, and other software on devices, along with identified weaknesses and threats.

**Microsoft 365 Defender**

**Device Inventory**

1.66k discovered devices are not protected  
Onboard them now

Computers & Mobile | **Network devices**

Total: 36 | High risk: 3 | High exposure: 0 | Newly discovered: 3

Export | Scan network devices | Search | 30 Days | Customize columns | Filter

IP	Vendor	Model	Name	Risk level	Exposure level	OS distribution	OS version	Last device update	Tags
192.168.1.1	Arista Networks			No known ri...	No data available	Linux	Other	Dec 13, 2022 1:56 PM	tag_value   matantag_nottest
192.168.1.2	Arista Networks			No known ri...	No data available	Linux	Other	Dec 19, 2022 12:36 AM	tag_value   matantag_nottest
192.168.1.3	Arista Networks			No known ri...	No data available	Linux	Other	Dec 11, 2022 11:59 PM	tag_value   matantag_nottest
192.168.1.4	Arista Networks			No known ri...	No data available	Linux	Other	Dec 6, 2022 7:18 AM	tag_value   matantag_nottest
192.168.1.5	D-Link International			No known ri...	▲ Medium	Linux	Other	Dec 14, 2022 6:46 PM	tag_value   matantag_nottest
192.168.1.6	Arista Networks			No known ri...	No data available	Linux	Other	Dec 19, 2022 6:13 AM	matantag_nottest
192.168.1.7	Arista Networks			No known ri...	No data available	Linux	Other	Dec 19, 2022 3:30 AM	tag_value   matantag_nottest

**5. Weaknesses:** Lists vulnerabilities along with the number of exposed devices in your organization. If you see "0" in the Exposed devices column, you do not have to take any immediate action. However, you can learn more about each vulnerability listed on this page. Select an item to learn more about it and what you can do to mitigate the potential threat to your company.

Microsoft Defender

Search

Endpoints

Vulnerability management

Dashboard

Recommendations

Remediation

Inventories

Weaknesses

Event timeline

Baselines assessment

Partners and APIs

Evaluation & tutorials

Configuration management

Identities

Dashboard

Health issues

Tools

Email & collaboration

Investigations

Explorer

Review

Campaigns

Weaknesses

Email notifications settings

Filter by device groups (78/78)

CVEs

Vulnerabilities in my organization

Exploitable vulnerabilities

Critical vulnerabilities

Zero-day vulnerabilities

Vulnerabilities with no security update

Vulnerabilities with some security updates

Export

5105 items

Search

Filter

Customize columns

Filters: Exposed devices: Affects my organization

	Name	Severity	CVSS	Affected Software	Age	Published on	First detected	Updated on	Threats	Exposed ...	Tags
<input type="checkbox"/>	CVE-2024-0518	High	8.8	Microsoft Edge Chromium-based (+ 6...)	9 days	Jan 16, 2024 12:00 AM	Jan 16, 2024 7:41 PM	Jan 23, 2024 12:00 AM		8	
<input type="checkbox"/>	CVE-2024-0517	High	8.8	Microsoft Edge Chromium-based (+ 1...)	9 days	Jan 16, 2024 12:00 AM	Jan 16, 2024 7:41 PM	Jan 23, 2024 12:00 AM		8	
<input type="checkbox"/>	CVE-2024-0519	High	8.8	Microsoft Edge Chromium-based (+ 6...)	9 days	Jan 16, 2024 12:00 AM	Jan 16, 2024 7:41 PM	Jan 23, 2024 12:00 AM		8	
<input type="checkbox"/>	CVE-2024-20721	Medium	4.0	Microsoft Edge Chromium-based	14 days	Jan 11, 2024 8:00 AM	Jan 18, 2024 1:35 AM	Jan 18, 2024 8:00 AM		50	
<input type="checkbox"/>	CVE-2024-21337	Medium	5.2	Microsoft Edge Chromium-based	14 days	Jan 11, 2024 5:00 AM	Jan 12, 2024 1:49 AM	Jan 18, 2024 7:13 PM		50	
<input type="checkbox"/>	CVE-2024-20675	Medium	6.3	Microsoft Edge Chromium-based	14 days	Jan 11, 2024 5:00 AM	Jan 18, 2024 1:47 AM	Jan 18, 2024 7:14 PM		50	
<input type="checkbox"/>	CVE-2024-20709	Low	3.7	Microsoft Edge Chromium-based	15 days	Jan 10, 2024 4:00 PM	Jan 12, 2024 1:49 AM	Jan 18, 2024 8:00 AM		50	
<input type="checkbox"/>	CVE-2024-21320	Medium	6.5	Microsoft Windows 10 (+ 6 more)	16 days	Jan 9, 2024 12:00 AM	Jan 9, 2024 6:30 PM	Jan 12, 2024 5:14 PM		283	
<input type="checkbox"/>	CVE-2024-21319	Medium	6.8	Oracle AspNetCore (+ 41 more)	16 days	Jan 9, 2024 12:00 AM	Jan 9, 2024 6:30 PM	Jan 16, 2024 8:48 PM		13	
<input type="checkbox"/>	CVE-2024-21316	Medium	6.1	Microsoft Windows 10 (+ 4 more)	16 days	Jan 9, 2024 12:00 AM	Jan 9, 2024 6:30 PM	Jan 12, 2024 6:46 PM		279	

# 6. Event timeline: Lists vulnerabilities that affect your organization in a timeline view.

Event timeline

Selected device groups (9/9)

New vulnerabilities

590

Exploitable vulnerabilities

5

Custom range

From 4/3/20 To 7/2/20

Search events

Customize columns

Export 100 items per page

1-100 of 173

Date (UTC) ↑	Event	Related component	Originally impacted device...	Currently impacted devices ...	Type
4/14/20	An exploit for 1 vulnerability in Microsoft Windows 7 became verified, currently i...	Microsoft Windows 7	N/A	1.04k (<1%)	Exploit was verified
4/14/20	has a new vulnerability, currently impacting 634 devices	Adobe Digital Editions	N/A	634 (<1%)	New vulnerability
4/14/20	1 vulnerability in Microsoft Windows Server 2012 R2 became exploitable, currentl...	Microsoft Windows Server 2012 R2	N/A	2.66k (1%)	New public exploit
4/14/20	An exploit for 1 vulnerability in Microsoft Windows Server 2012 R2 became verifie...	Microsoft Windows Server 2012 R2	N/A	2.66k (1%)	Exploit was verified