

Threat Level

Hiveforce Labs THREAT ADVISORY

爺 VULNERABILITY REPORT

Critical Unauthenticated SQL Injection Flaw in Fortinet FortiWeb

Date of Publication

Admiralty Code

July 14, 2025

A1

TA Number TA2025217

Summary

First Seen: July 8, 2025

Affected Product: Fortinet FortiWeb

Impact: CVE-2025-25257 is a critical unauthenticated SQL injection vulnerability affecting Fortinet FortiWeb appliances. Exploiting improperly sanitized user inputs in the administrative API, attackers can execute arbitrary SQL commands via the HTTP/HTTPS interface without authentication. The SQL injection can be escalated to Remote Code Execution (RCE) by writing malicious files to the underlying system. Public proof-of-concept (PoC) exploit code is available, and immediate patching is strongly recommended to prevent exploitation.

夺 CVE

#1

110001010101010100000011101

0,00,00,00,111010110 PC1 P0001010101010

CVE	NAME	AFFECTED PRODUCT	ZERO- DAY	CISA KEV	PATCH
CVE-2025-25257	Fortinet FortiWeb Unauthenticated SQL Injection Vulnerability	Fortinet FortiWeb	8	8	>

Vulnerability Details

CVE-2025-25257 is a critical security vulnerability discovered in Fortinet's FortiWeb web application firewall, a product widely used to protect web applications from various threats. The flaw is an SQL injection vulnerability found in the Fabric Connector component of FortiWeb's administrative interface. Due to improper input sanitization, an attacker can inject malicious SQL commands by manipulating certain HTTP headers, specifically the Authorization, Bearer header, in unauthenticated requests. This allows attackers to interact directly with the underlying database, bypassing authentication controls entirely.



This vulnerability is particularly dangerous because it requires no authentication and can be exploited remotely, making any exposed management interface a high-value target. Successful exploitation allows attackers to execute arbitrary SQL commands, which can result in unauthorized access to, modification, or deletion of database records. In some cases, attackers may be able to escalate the attack to achieve remote code execution under the context of the application, potentially leading to full system compromise.

As of mid-July 2025, proof-of-concept exploit code is publicly available, and security researchers have demonstrated that remote code execution is possible. While there are no confirmed reports of active exploitation in the wild, the critical nature of the flaw and the <u>history of Fortinet</u> <u>products</u> being targeted by attackers underscore the urgency of applying the available patches and reviewing the security of any exposed management interfaces.

æ	Vul	nera	bilitie	S

	CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
	CVE-2025-25257	Fortinet FortiWeb versions: 7.6.0 - 7.6.3 7.4.0 - 7.4.7 7.2.0 - 7.2.10 7.0.0 - 7.0.10	cpe:2.3:a:fortinet:fortiwe b:*:*:*:*:*:*:*:*	CWE-89
				0.0000011
Т	HREAT ADVISORY . VUL	NERABILITY REPORT (Red)		₃ 8ªHive Pro

Recommendations



Apply Patches Immediately: Fortinet has released patches addressing this vulnerability. Upgrade to FortiWeb versions 7.6.4, 7.4.8, 7.2.11, or 7.0.11 (or later) as soon as possible to eliminate the risk of exploitation.



Restrict Administrative Interface Access: Limit access to the FortiWeb administrative HTTP/HTTPS interfaces by using IP allowlisting or VPN access. Disable administrative access from untrusted networks wherever feasible.



Monitor Traffic: Inspect logs for abnormal activity targeting the /api/fabric/* endpoints and monitor for unexpected file creation, especially .pth files and changes to the ml-draw.py script.



Implement Web Application Firewall (WAF) Protections: Enable or update WAF rules to block suspicious requests and SQL injection attempts targeting FortiWeb endpoints.

Potential <u>MITRE ATT&CK</u> TTPs

<u>TA0002</u>	<u>TA0042</u>	<u>TA0001</u>	<u>TA0004</u>
Execution	Resource Development	Initial Access	Privilege Escalation
<u>TA0005</u>	<u>T1059.006</u>	<u>T1190</u>	<u>T1068</u>
Defense Evasion	Python	Exploit Public-Facing Application	Exploitation for Privilege Escalation
<u>T1070</u>	<u>T1588</u>	<u>T1059</u>	<u>T1588.006</u>
Indicator Removal	Obtain Capabilities	Command and Scripting Interpreter	Vulnerabilities

8°Hive Pro

THREAT ADVISORY • VULNERABILITY REPORT (Red)

Patch Details

Upgrade to FortiWeb versions 7.6.4, 7.4.8, 7.2.11, or 7.0.11 or later.

Link:

https://fortiguard.fortinet.com/psirt/FG-IR-25-151

Si References

https://labs.watchtowr.com/pre-auth-sql-injection-to-rce-fortinet-fortiweb-fabric-connectorcve-2025-25257/

https://pwner.gg/blog/2025-07-10-fortiweb-fabric-rce

https://hivepro.com/threat-advisory/exploited-in-the-wild-fortinet-urges-patch-for-criticalzero-day/

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.

Contextualize Unis Threat Exposure Management Reform Origitie

REPORT GENERATED ON

July 14, 2025 6:30 AM

© 2025 All Rights are Reserved by Hive Pro



More at www.hivepro.com