

Threat Level

Hiveforce Labs THREAT ADVISORY

爺 VULNERABILITY REPORT

Apache OFBiz Flaw Enables Attackers to Execute Remote Code

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TA Number TA2024297



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First Seen: August 2024

Affected Products: Apache OFBiz

Impact: A pre-authentication remote code execution vulnerability, CVE-2024-38856, has been disclosed in Apache OFBiz. This vulnerability could allow threat actors to achieve remote code execution on affected instances, posing a significant threat to organizations using this open-source enterprise resource planning (ERP) system.

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容 CVE

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CVE	NAME	AFFECTED PRODUCT	ZERO -DAY	CISA KEV	PATCH
CVE-2024- 38856	Apache OFBiz Incorrect Authorization Vulnerability	Apache OFBiz	8	8	<u>~</u>

Vulnerability Details

Apache OFBiz, an open-source ERP system renowned for its extensive customization and support for various industries, automates and integrates diverse business processes, including accounting, human resources, customer relationship management, order management, manufacturing, and e-commerce. Recently, researchers uncovered a critical pre-authentication remote code execution vulnerability, CVE-2024-38856, during an analysis of a previously patched issue (CVE-2024-36104).

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This vulnerability, rated with a CVSS score of 9.8, stems from a flaw in the override view functionality, which inadvertently exposes essential endpoints to unauthenticated attackers. By manipulating specific request parameters, adversaries can circumvent authentication checks and access restricted endpoints, thereby facilitating remote code execution and posing a significant threat to organizations using the affected ERP system.

The core issue lies in the inconsistency between the two URI calculation methods, which can be exploited to bypass authentication and security checks. When the server receives a request, it initializes the variables path, requestUri, and overrideViewUri. The methods getRequestUri and getOverrideViewUri are tasked with calculating these variables. However, a discrepancy arises in the return values for the path.

This discrepancy creates a flaw in the authentication mechanism, as authz checks are conducted on `requestUri`, but the page associated with `overrideViewUri` is rendered instead. This mismatch leads to confusion within the authentication process, allowing threat actors to bypass the patch for CVE-2024-36104 and execute code.

The vulnerability opens the door for unauthenticated remote code execution. Although there is no evidence of the vulnerability being exploited as a zeroday, the availability of a proof of concept (PoC) within a day raises concerns about possible exploitation.

Vulnerabilities

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2024-	Apache OFBiz versions up to	cpe:2.3:a:apache:ofbiz:18.12.	CWE-863
38856	18.12.14	14:*:*:*:*:*:*	

Recommendations



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Update: To mitigate the risk associated with CVE-2024-38856, users are strongly urged to upgrade their Apache OFBiz installations to version 18.12.15. This update addresses the pre-authentication remote code execution vulnerability and enhances the overall security of the ERP system.



Deploy Behavioral Analysis Solutions: Utilize behavioral analysis solutions to detect any anomalous behavior on systems. Ensure that endpoint protection solutions are regularly updated to identify and mitigate the latest threats.



Least Privilege: Adhere to the idea of "least privilege" by giving users only the essential permissions they need for their tasks, restrict the access to the trusted parties only. This strategy reduces the effects of vulnerabilities related to privilege escalation.



Limit Exposure: Restrict access to critical systems and endpoints to minimize potential attack vectors. Implement strict network access controls to ensure that only authorized users and systems can interact with sensitive components.

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

TA0042 Resource Development	TA0001 Initial Access	TA0002 Execution	TA0004 Privilege Escalation	
TA0005 Defense Evasion	<u>T1588</u> Obtain Capabilities	T1588.006 Vulnerabilities	T1190 Exploit Public-Facing Application	
T1059 Command and Scripting Interpreter	T1556 Modify Authentication Process	T1068 Exploitation for Privilege Escalation		

Signation Patch Details

Users are strongly urged to upgrade their Apache OFBiz installations to version 18.12.15. This update addresses the CVE-2024-38856 and enhances the overall security of the ERP system.

Link: https://ofbiz.apache.org/download.html

Si References

https://blog.sonicwall.com/en-us/2024/08/sonicwall-discovers-second-critical-apache-ofbizzero-day-vulnerability/

https://lists.apache.org/thread/olxxjk6b13sl3wh9cmp0k2dscvp24l7w

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