

مجلس الأمان السيبراني
CYBER SECURITY COUNCIL



United Arab Emirates

Pre-Auth DoS Vulnerability in MongoDB Server

Tracking #:432317427

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EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed that a Pre-Auth DoS Vulnerability has been identified in MongoDB Server (CVE-2025-6709), allowing unauthenticated remote attackers to cause denial-of-service (DoS) conditions.

TECHNICAL DETAILS:

A Pre-Auth DoS Vulnerability has been identified in MongoDB Server (CVE-2025-6709), allowing unauthenticated remote attackers to cause denial-of-service (DoS) conditions through improper input validation within the OIDC (OpenID Connect) authentication mechanism. This flaw affects MongoDB versions prior to 6.0.21, 7.0.17, and 8.0.5 and can be exploited by sending specially crafted JSON payloads with malformed date values, triggering invariant failures and crashing the server.

Although MongoDB has confirmed that there are currently no active attacks in the wild, the proof-of-concept (PoC) exploit is available and can be easily reproduced using the mongo shell, significantly raising the risk profile. The vulnerability is rated CVSS 7.5 (High) due to its low complexity, unauthenticated nature, and high impact on availability.

Vulnerability Details

- CVE ID: CVE-2025-6709
- Severity: High (CVSS v3.1 Score: 7.5)
- Impact: Denial of Service (Server crash)
- Attack Vector: Network
- Attack Complexity: Low
- Authentication Required: No (v7.0 and v8.0), Yes (v6.0)
- Vulnerable Component: OIDC Authentication Input Validation
- CWE ID: CWE-20 – Improper Input Validation

Affected Versions:

- MongoDB Server v6.0 versions prior to 6.0.21
- MongoDB Server v7.0 versions prior to 7.0.17
- MongoDB Server v8.0 versions prior to 8.0.5

Fixed Versions:

- MongoDB 6.0.21
- MongoDB 7.0.17
- MongoDB 8.0.5

RECOMMENDATIONS:

The UAE Cyber Security Council recommends to upgrade MongoDB to the latest secure version at the earliest.

Kindly circulate this information to your subsidiaries and partners as well as share with us any relevant information and findings.

The UAE Cyber Security Council extends its appreciation for the continued collaboration.

REFERENCES:

- <https://jira.mongodb.org/browse/SERVER-106748>