



مجلس الأمن السيبراني
CYBER SECURITY COUNCIL



Critical Vulnerability in Apache Ignite

Tracking #:432316893

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EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed a critical vulnerability in Apache Ignite that could be exploited to gain unauthorized access to affected systems.

TECHNICAL DETAILS:

Vulnerability Details:

- **CVE-2024-52577**
- CVSS Score 9.5 **Critical**
- A security vulnerability exists in Apache Ignite, an open-source distributed database designed for high-performance computing. This vulnerability could allow a remote attacker to execute arbitrary code on vulnerable Ignite servers, posing a significant security risk.
- The flaw arises due to **improper handling of class serialization filters** for certain Ignite endpoints. By sending a specially crafted Ignite message containing a vulnerable object, an attacker could trigger the deserialization process on the server, leading to arbitrary code execution.
- Successful exploitation of this vulnerability could grant an attacker full control over an affected system, resulting in:
 - Unauthorized access to sensitive data
 - Disruption of services
 - Deployment of additional malicious payloads
 - Potential system-wide compromise

Affected Versions:

- Apache Ignite versions from 2.6.0 and before 2.17.0

Fixed Versions:

- Apache Ignite 2.17.0 or later

RECOMMENDATIONS:

The UAE Cyber Security Council recommends updating the affected versions to the fixed or latest versions released by Apache Ignite.

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://nvd.nist.gov/vuln/detail/CVE-2024-52577>