مجلس الأمن السيبراني

CYBER SECURITY COUNCIL

United Arab Emirates

RCE Vulnerability in Apache Jackrabbit

Tracking #:432317678

Date:08-09-2025

ADVISORY

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EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed a security vulnerability in Apache Jackrabbit, a widely used content repository system. The flaw allows remote code execution (RCE) through the deserialization of untrusted data in JNDI-based repository lookups. This can result in full compromise of affected servers, including arbitrary command execution and potential backdoor installation.

TECHNICAL DETAILS:

Vulnerability Details

- **CVE-2025-58782**
- Severity: Important
- A security vulnerability exists in Apache Jackrabbit, potentially exposing applications to remote code execution (RCE) attacks. The vulnerability stems from the unsafe deserialization of untrusted data during JNDI-based repository lookups.
- This flaw allows attackers to inject malicious JNDI references when applications accept untrusted inputs for repository connections, potentially leading to arbitrary code execution, data compromise, and system instability.
- The vulnerability affects deployments that use JndiRepositoryFactory for JCR lookups. By crafting a malicious JNDI URI, an attacker can deliver harmful payloads. When processed by the vulnerable component, these payloads are deserialized, allowing remote code execution.

Impact

Successful exploitation can allow attackers to:

- Execute arbitrary commands on affected systems
- Gain remote access to servers
- Plant backdoors for persistent control
- Compromise sensitive content managed by Jackrabbit

Affected Versions:

- Apache Jackrabbit Core 1.0.0 – 2.22.1
- Apache Jackrabbit JCR Commons 1.0.0 – 2.22.1

Fixed Version:

- 2.22.2 or later

RECOMMENDATIONS:

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

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://seclists.org/oss-sec/2025/q3/151