



مجلس الأمن السيبراني  
CYBER SECURITY COUNCIL



**Security Updates GitHub Enterprise Server**

Tracking #:432317099

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## EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed GitHub has released security updates to address multiple high-severity vulnerabilities in GitHub Enterprise Server (GHES).

## TECHNICAL DETAILS:

GitHub has addressed multiple high-severity vulnerabilities in GitHub Enterprise Server (GHES), including a critical remote code execution (RCE) flaw (CVE-2025-3509), an information disclosure issue (CVE-2025-3124), and a cross-site scripting (XSS) vulnerability (CVE-2025-3246).

### Vulnerability Details:

1. CVE-2025-3509: Pre-Receive Hook RCE-High
  - Impact: Attackers with admin-level access or repository modification rights can execute arbitrary code via pre-receive hooks during specific conditions (e.g., hot patching)
2. CVE-2025-3124: Unauthorized Repository Name Disclosure- Medium
  - Impact: Attackers can view private repository names via GitHub Advanced Security Overview filters lacking authorization checks
3. CVE-2025-3246: Markdown XSS via Math Blocks-High
  - Impact: Malicious actors can inject HTML/CSS into math blocks (.....), triggering XSS when privileged users interact with content

### Affected Versions:

- Affected from 3.13.0 through 3.13.13; unaffected from 3.13.14
- Affected from 3.14.0 through 3.14.10; unaffected from 3.14.11
- Affected from 3.15.0 through 3.15.5; unaffected from 3.15.6
- Affected from 3.16.0 through 3.16.1; unaffected from 3.16.2

## RECOMMENDATIONS:

The UAE Cyber Security Council recommends to immediately patch GitHub Enterprise Server to fixed versions or newer.

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://docs.github.com/en/enterprise-server@3.16/admin/release-notes#3.16.2>