

مجلس الأمان السيبراني  
CYBER SECURITY COUNCIL



United Arab Emirates

RCE Vulnerability in Apache bRPC

Tracking #:432318273

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## EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed that Apache bRPC contains a remote command injection vulnerability in its heap profiler built-in service. An unauthenticated attacker can exploit insufficient input validation to execute arbitrary commands on affected systems.

## TECHNICAL DETAILS:

A remote command injection vulnerability in Apache bRPC's heap profiler built-in service (/pprof/heap). The issue allows an attacker to inject and execute arbitrary commands through the extra\_options parameter.

### Vulnerability Details

- **CVE-2025-60021**
- Severity: important
- Apache bRPC's heap profiler built-in service (/pprof/heap) accepts a user-supplied parameter named extra\_options. The service does not validate or sanitize this input and passes it directly as a command-line argument. As a result, an attacker can craft malicious input to execute arbitrary commands on the host running the bRPC service.
- This vulnerability affects all platforms where Apache bRPC is deployed and is exploitable remotely if the /pprof/heap endpoint is accessible.

### Affected Versions

- Apache bRPC 1.11.0 before 1.15.0

### Fixed Versions

- Apache bRPC 1.15.0 or later

## RECOMMENDATIONS:

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

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-2025-60021>