

Server-Side Request Forgery (SSRF) in emissary:emissary

High drewfarris published GHSA-2p8j-2rf3-h4xr on Jul 2, 2021

Package

 **emissary:emissary** (Maven)

Affected versions

6.4.0

Patched versions

7.0.0

Description

Impact

Emissary is vulnerable to Server-Side Request Forgery (SSRF)

The `RegisterPeerAction` endpoint is vulnerable to Server-Side Request Forgery (SSRF). A POST request to the `/RegisterPeer.action` endpoint will trigger additional requests to hosts controlled by the attacker

Some of the forged requests are non-authenticated requests sent to the `/emissary/Heartbeat.action` endpoint on the attacker server. However, some others are authenticated requests sent to the `/emissary/RegisterPeer.action` endpoint on the attacker-controlled server.

Similarly the `AddChildDirectoryAction` endpoint is vulnerable to Server-Side Request Forgery (SSRF). A POST request to the `/AddChildDirectory.action` endpoint will trigger additional requests to hosts controlled by the attacker:

This vulnerability may lead to credentials leak.

Patches

Has the problem been patched? What versions should users upgrade to?

Workarounds

Disable network access to Emissary from untrusted sources.

References

- MITRE Common Weakness Enumeration (CWE-918: Server Side Request Forgery)

For more information

If you have any questions or comments about this advisory:

- Open an issue in [NationalSecurityAgency/emissary](#)
- Email us at emissarysupport@evoforge.org

Severity

High 7.2 / 10

CVSS base metrics	
Attack vector	Network
Attack complexity	High
Privileges required	High
User interaction	None
Scope	Changed
Confidentiality	High
Integrity	Low
Availability	Low

CVSS:3.1/AV:N/ACH/PR:H/UI:N/S:C/C:H/I:L/A:L

CVE ID

CVE-2021-32639

Weaknesses

CWE-918

Credits

 pwntester