

Spring Security Advisories

All advisories

CVE-2024-38816: Path traversal vulnerability in functional web frameworks

HIGH | SEPTEMBER 12, 2024 | CVE-2024-38816

Description

Applications serving static resources through the functional web frameworks WebMvc.fn or WebFlux.fn are vulnerable to path traversal attacks. An attacker can craft malicious HTTP requests and obtain any file on the file system that is also accessible to the process in which the Spring application is running.

Specifically, an application is vulnerable when both of the following are true:

- the web application uses RouterFunctions to serve static resources
- resource handling is explicitly configured with a FileSystemResource location

However, malicious requests are blocked and rejected when any of the following is true:

- the Spring Security HTTP Firewall is in use
- the application runs on Tomcat or Jetty

Affected Spring Products and Versions

Spring Framework

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Reporting a vulnerability

To report a security vulnerability for a project within the Spring portfolio, see the Security Policy

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Mitigation

Users of affected versions should upgrade to the corresponding fixed version.

Affected version(s)	Fix version	Availability
5.3.x	5.3.40	Enterprise Support Only
6.0.x	6.0.24	Enterprise Support Only
6.1.x	6.1.13	OSS

No other mitigation steps are necessary.

Users of older, unsupported versions could enable Spring Security's Firewall in their application, or switch to using Tomcat or Jetty as a Web server because they reject such malicious requests.

Credit

The issue was identified and responsibly reported by Gabor Legrady.

References

https://nvd.nist.gov/vuln-metrics/cvss/v3-calculator?
vector=AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N&version=3.1



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