

Spring Security Advisories

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CVE-2026-22747: Unauthorized User Impersonation when Using X.509 Client Certificates

MEDIUM | APRIL 20, 2026 | CVE-2026-22747

Description

`SubjectX500PrincipalExtractor` does not correctly handle certain malformed X.509 certificate `CN` values, which can lead to reading the wrong value for the username. In a carefully crafted certificate, this can lead to an attacker impersonating another user.

Environmental Considerations

This component sits behind Spring Security's pre-authentication flow, which assumes the presented credentials have already been validated by a trusted upstream. Exploiting this issue therefore presupposes a compromise of that upstream trust. So while we recommend upgrading, this fix is better understood as defense-in-depth than as closing a standalone attack path.

Also note that this fix only addresses

`SubjectX500PrincipalExtractor` and not

`SubjectDnX509PrincipalExtractor`, a deprecated component.

Affected Spring Products and Versions

Spring Security:

<https://spring.io/security/cve-2026-22747>

Reporting a
vulnerability

To report a security vulnerability for a project within the Spring portfolio, see the [Security Policy](#)

Mitigation

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

Affected version(s)	Fix version	Availability
7.0.x	7.0.5	OSS

Credit

The issue was identified and responsibly reported by [Nikita Markevich](#).

References

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

History

- 2026-04-20: Initial vulnerability report published.



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