

## Security Advisory Report - OBSO-1812-01

### Spring Framework ResourceHttpRequestHandler Remote DoS (CVE-2018-15756)

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#### Summary

Spring Framework contains a flaw that is triggered during the handling of a specially crafted range header with a high number of ranges or wide ranges that overlap.

This may allow a remote attacker to cause a denial of service.

#### Details

Spring Framework, version 5.1, versions 5.0.x prior to 5.0.10, versions 4.3.x prior to 4.3.20, and older unsupported versions on the 4.2.x branch provide support for range requests when serving static resources through the ResourceHttpRequestHandler, or starting in 5.0 when an annotated controller returns an `org.springframework.core.io.Resource`.

A malicious user (or attacker) can add a range header with a high number of ranges, or with wide ranges that overlap, or both, for a denial of service attack.

This vulnerability affects applications that depend on either `spring-webmvc` or `spring-webflux`. Such applications must also have a registration for serving static resources (e.g. JS, CSS, images, and others), or have an annotated controller that returns an `org.springframework.core.io.Resource`.

Spring Boot applications that depend on `spring-boot-starter-web` or `spring-boot-starter-webflux` are ready to serve static resources out of the box and are therefore vulnerable.

#### Affected Pivotal Products and Versions

Severity is low unless otherwise noted.

- Spring Framework 5.1
- Spring Framework 5.0.0 to 5.0.9
- Spring Framework 4.3 to 4.3.19
- Older unsupported versions going back to 4.2 are also affected

#### Mitigation

Users of affected versions should apply the following mitigation:

- 5.1 users should upgrade to 5.1.1

- 5.0.x users should upgrade to 5.0.10
- 4.3.x users should upgrade to 4.3.20
- 4.2.x users should upgrade to a supported branch.

No further mitigation steps are necessary.

**Note the following when evaluating the impact:**

- Support for Range requests was introduced in version 4.2. Therefore versions prior to 4.2 are not affected by this issue.
- Support for returning an `org.springframework.core.io.Resource` from an annotated controller was introduced in 5.0. Therefore versions prior to 5.0 can only be impacted through a registration to serve static resources.

<https://pivotal.io/security/cve-2018-15756>

Unify rates the priority as low to medium for our products.

**Affected Products**

Circuit Provisioning Agent is affected, fix version is 0.9.18

Circuit Backend Services / Operations Node is affected with low priority, fix is in work. Operations node is not accessible from the internet.

OpenScope Backup and recovery services are not affected.

All other products do not use Spring Framework or not affected versions.

**Recommended Actions**

Starting with Circuit Provisioning Agent 0.9.18, Spring Framework is no longer affected. Upgrade to this version.

**References**

<https://pivotal.io/security/cve-2018-15756>

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=2018-15756>

<https://spring.io/blog/2018/10/16/spring-project-vulnerability-reports-published>

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Advisory: OBSO-1812-01, status: general release

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Contact and Disclaimer

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