F#RTINET.

# **OUTBREAK ALERTS**

## Public 0-day exploit allows remote code execution

VMWare Spring4Shell Vulnerability

https://spring.io/blog/2022/03/31/spring-framework-rce-early-announcement CVEs: CVE-2022-22965

A remote code execution vulnerability exists in Spring Framework with JDK version 9 due to an insecure deserialization exploit. The exploit is based on insufficient validation of input that an attacker can perform a remote code execution. Spring is encouraging customers to upgrade to Spring Framework 5.3.18 and 5.2.20 or follow the suggested workarounds.

FortiGuard Threat Signal at

software development cycle of any Java-based enterprise applications. More backround is available in the

Spring Framework is the most popular Java lightweight open-source framework which allows simplification of the

https://www.fortiguard.com/threat-signal-report/4477

**Announced** March 30, 2022: Spring announced a 0-day vulnerability on their Spring Framework with JDK9. March 30, 2022: A

tech news site Cyber Kendra provided vulnerability details and investigation. March 31, 2022: Thousands of SecNews site picked up and re-announced the critical vulnerability.

March 31, 2022: Spring published a blog on details, workaround and solution of the vulnerability. FortiGuard is

seeing active exploitation of the vulnerability. The telemetries can be viewed at:

**Latest Developments** 

**Background** 

https://www.fortiguard.com/encyclopedia/ips/51352 **PROTECT** 



### Countermeasures across the security fabric for protecting assets, data and network from cybersecurity events:

Reconnaissance

**Decoy VM** 

## Detect activities on exploitation of Spring vulnerability (CVE-2022-22965).



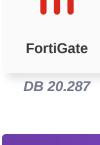
Delivery

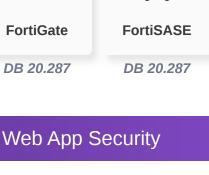
Weaponization

**Exploitation** 

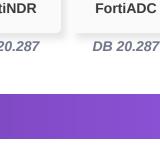
**IPS** 

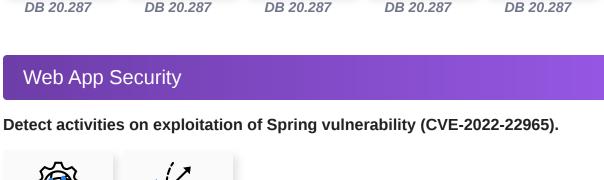
## Detect activities on exploitation of Spring vulnerability (CVE-2022-22965).











**FortiProxy** 

#### **FortiWeb FortiADC**

**Application Firewall** 

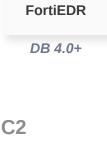
DB 0.00317 DB 1.00033

**Detect activities on exploitation of Spring vulnerability (CVE-2022-22965)** 



### Block post-exploitation activity associated with adversaries attempting to utilize the vulnerability to gain a foothold within the environment.

Post-execution



Action

# **Threat Hunting**

DETECT

alert and generate reports:

Detect activities on exploitation of Spring vulnerability (CVE-2022-22965).

Find and correlate important information to identify an outbreak, the following updates are available to raise



**FortiAnalyzer** 

**FortiDeceptor** 



**FortiAnalyzer** 



**FortiSIEM** 

v6.2+

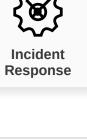
## DB 1.00052



Automated Response

**Assisted Response Services** Experts to assist you with analysis, containment and response activities.

Services that can automatically respond to this outbreak.



**FortiXDR** 



FortiRecon:

# (and recovery from) security incidents: InfoSec Services

## Response Readiness

# **IDENTIFY**

**Identify processes and assets that need protection:** 

Security readiness and awareness training for SOC teams, InfoSec and general employees.

Security reconnaissance and penetration testing services, covering both internal & external attack vectors, including those introduced internally via software supply chain.

**Security** FortiRecon: **FortiDevSec FortiDAST** Rating **EASM** 

Attack Surface Monitoring (Inside & Outside)







### **Additional Resources NIST** https://nvd.nist.gov/vuln/detail/cve-2022-22965

**CISA** 

The Hacker News

**Threat Signal** 

https://www.cisa.gov/uscert/ncas/current-activity/2022/04/01/spring-releases-security-updates-addressing-spring4shell-and https://thehackernews.com/2022/04/cisa-warns-of-active-exploitation-of.html

https://www.fortiguard.com/threat-signal-report/4477

Learn more about FortiGuard Outbreak Alerts











