F**:**RTINET.

OUTBREAK ALERTS 🗘

Spring4Shell Vulnerability

Public 0-day exploit allows remote code execution

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.

Background	Spring Framework is the most popular Java lightweight open-source framework which allows simplification of the software development cycle of any Java-based enterprise applications.
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.
Latest Developments	March 31, 2022: Spring published a blog on details, workaround and solution of the vulnerability. FortiGuard is seeing active exploitation of the vulnerability. The telemetrics can be viewed at: 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).



FortiDeceptor

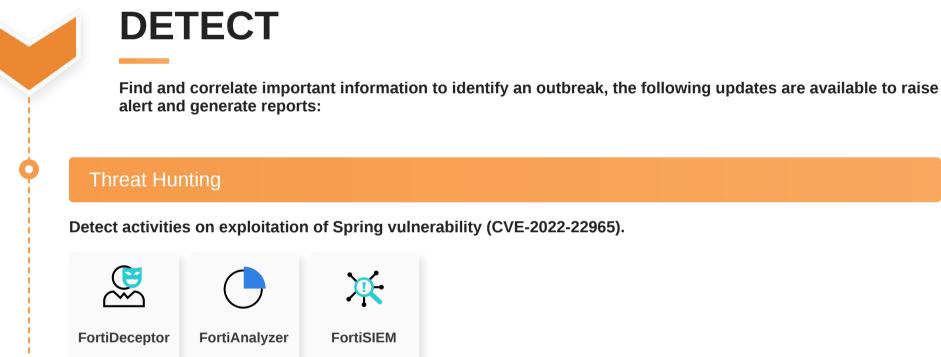
DB 20221125

Weaponization

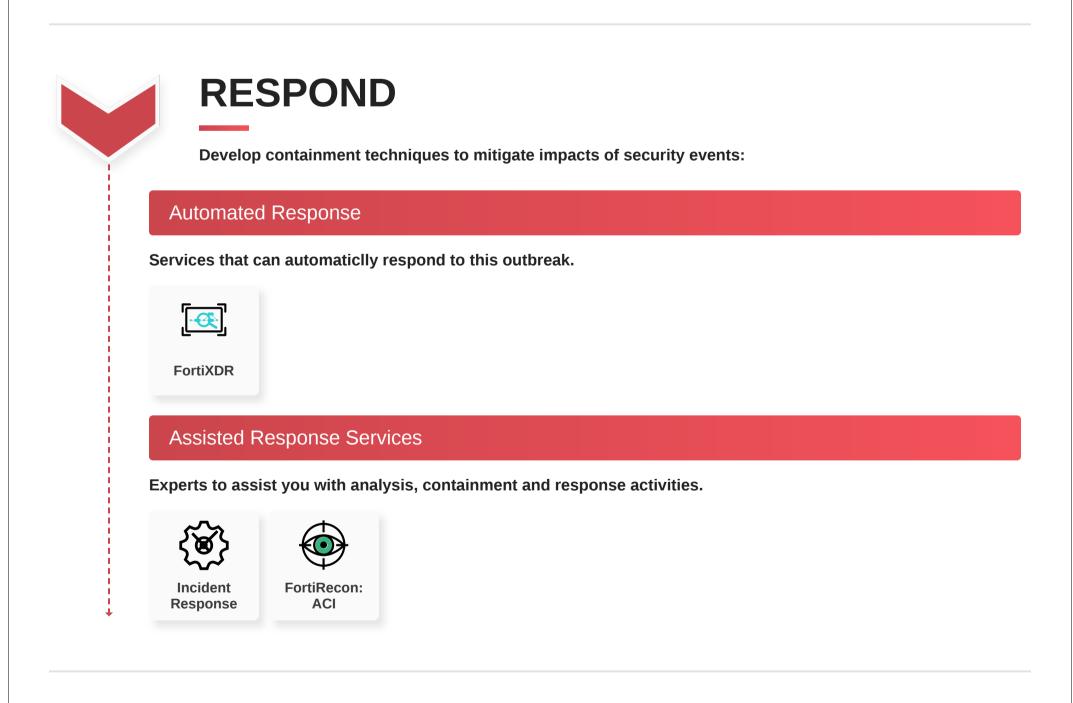
Delivery

0

	Exploitation					
IPS						
I	Detect activities on exploitation of Spring vulnerability (CVE-2022-22965).					
	Image: DB 20.287Image: DB 20.287Image: DB 20.287Image: DB 20.287Image: DB 20.287Image: DB 20.287DB 20.287DB 20.287DB 20.287					
	Web App Security					
	Detect activities on exploitation of Spring vulnerability (CVE-2022-22965).					
	Image: Web with with with with with with with with					
	Application Firewall					
	FortiClient DB 20.289					
I	Installation					
	Post-execution					
	Block post-exploitation activity associated with adversaries attempting to utilize the vulnerability to gain a footh within the environment.					
	C2 Action					



	\bigcirc	X					
FortiDeceptor	FortiAnalyzer	FortiSIEM					
v3.0+	v7.0	v6.2+					
Outbreak Detection							
Detects indicators for the Spring vulnerability (CVE-2022-22965) across the Security Fabric							
FortiAnalyzer							
DB 1.052							



RECOVER

Improve security posture and processes by implementing security awareness and training, in preparation for (and recovery from) security incidents:

InfoSec Services

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





IDENTIFY

Identify processes and assets that need protection:

Attack Surface Monitoring (Inside & Outside)

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





Additional Resources

Spring Blog	https://spring.io/blog/2022/03/31/spring-framework-rce-early-announcement
FortiGuard Threat Signal	https://www.fortiguard.com/threat-signal-report/4477
National Vulnerability DB	https://nvd.nist.gov/vuln/detail/CVE-2022-22965

Learn more about FortiGuard Outbreak Alerts

