



OUTBREAK ALERTS

Apache Text4shell Vulnerability

So-called as Text4Shell but not near yet to Log4Shell

<https://blogs.apache.org/security/entry/cve-2022-42889>

CVEs: CVE-2022-42889, CVE-2022-33980

A vulnerability on Apache Commons Text library that can allow the attacker to do a Remote Code Execution (RCE) via its interpolation. FortiGuard has added protections throughout the Security Fabric to safeguard its customers from possible attacks.

Background

Apache Commons Text is a library for performing various text operations with values looked up through interpolators. Such examples of text operations are escaping, calculating string differences, and substituting placeholders.

According to the Apache blog, the Apache Common Text issue is different from Log4Shell (CVE-2021-44228) because the affected method is explicitly intended to perform string interpolation. Applications that use the library is less likely to inadvertently pass untrusted input without proper validation.

Announced

13 Oct, 2022: The Apache Commons Text team disclosed CVE-2022-42889.

<https://lists.apache.org/thread/n2bd4vdsgkqh2tm14l1wyc3jyo17s1om>

Latest Developments

18 Oct, 2022: The Apache Security Team posted a blog.

<https://blogs.apache.org/security/entry/cve-2022-42889>

21 Oct, 2022: FortiGuard telemetry shows low activity on the vulnerability.

FortiGuard has added IPS, FortiADC WAF and FortiWeb WAF signatures to block any attack attempts leveraging these vulnerabilities to protect our customers. Users are recommended to upgrade vulnerable versions as recommended by the vendor and also properly validate and sanitize any untrusted input as a best practice.

Cyber Kill Chain

Reconnaissance

FortiDeceptor

Lure 3.3+

Deception Lure will divert attacker and its activities related to Apache Text4shell Vulnerability towards FortiDeceptor Decoy

Decoy VM 3.3+

Decoys in the network segment can detect the attack and any lateral movement.

Weaponization

Delivery

FortiDevSec

Vulnerability 22.4.0+

Software Composition Analysis scanner detects Apache Commons Text RCE Vulnerability

Exploitation

FortiGate

IPS 22.418

Detects and Blocks attack attempts related to Apache Commons Text RCE Vulnerability

FortiWeb

Web App Security 0.00332

Detects and Blocks attack attempts related to Apache Commons Text RCE Vulnerability

FortiSASE

IPS 22.418

Detects and Blocks attack attempts related to Apache Commons Text RCE Vulnerability

FortiNDR

IPS 22.418

Detects and Blocks attack attempts related to Apache Commons Text RCE Vulnerability

FortiADC

IPS 22.418

Detects and Blocks attack attempts related to Apache Commons Text RCE Vulnerability

FortiProxy

IPS 22.418

Detects and Blocks attack attempts related to Apache Commons Text RCE Vulnerability

Installation

C2

Action

Endpoint

Incident Response (Security Operations)

To help customers identify and protect vulnerable, FortiAnalyzer, FortiSIEM and FortiSOAR updates are available to raise alerts and escalate to incident response:

FortiAnalyzer

Outbreak Detection

Version 1.00072

<https://fortiguard.fortinet.com/updates/outbreak-detection-service?version=1.00072>

Threat Hunting

Version 7.0+

<https://community.fortinet.com/t5/FortiAnalyzer/Technical-Tip-Using-FortiAnalyzer-to-detect-Apache-Commons-Text/tap/227450>

FortiSIEM

Content Update

Version 304

https://help.fortinet.com/fsiem/6.6-2/Online-Help/HTML5_Help/content_updates.htm#Content11

Threat Hunting

Version 6.4.0+

<https://community.fortinet.com/t5/FortiSIEM/Technical-Tip-Using-FortiSIEM-to-detect-Apache-Commons-Text/ta-p/228600>

Additional Resources

Apache Blog

<https://blogs.apache.org/security/entry/cve-2022-42889>

Openwall Security

<https://www.openwall.com/lists/oss-security/2022/10/13/>

Security Week

<https://www.securityweek.com/critical-apache-commons-text-flaw-compared-log4shell-not-widespread>

Dark Reading

<https://www.darkreading.com/application-security/researchers-keep-a-wary-eye-on-critical-new-vulnerability-in-apache-commons-text>

Bleeping Computer

<https://www.bleepingcomputer.com/news/security/apache-commons-text-rce-flaw-keep-calm-and-patch-away/>

The Hacker News

<https://thehackernews.com/2022/10/hackers-started-exploiting-critical.html>