Apache Log4j2 Vulnerability

https://logging.apache.org/log4j/2.x/security.html

RCE and DoS in Apache Java logging library

CVEs: CVE-2021-44228, CVE-2021-45046, CVE-2021-45105, CVE-2021-44832

Background

A 0-day exploit was discovered on a popular Java library Log4j2 that can result to a Remote Code Execution (RCE). This is a widely deployed

library, and while systems protected by Fortinet Security Fabric are secured by the protections below, all systems need to upgrade ASAP as this is 10.0 severity. Due to the high visibility and attention, subsequent vulnerabilities have since emerged

please read Fortinet Blog: https://www.fortinet.com/blog/threat-research/critical-apache-log4j-log4shell-vulnerability-what-you-need-to-know

https://www.fortiguard.com/psirt/FG-IR-21-245

To view, Fortinet products impacted by this vulnerability, refer to:

Technical information pertaining to each vulnerability, please refer to the FortiGuard Threat Signals at:

https://www.fortiguard.com/threat-signal-report/4335 https://www.fortiguard.com/threat-signal-report/4339

https://www.fortiguard.com/threat-signal-report/4345

https://www.fortiguard.com/threat-signal-report/4360

Dec 9th: A 0-day was posted on Twitter with a PoC posted in GitHub. On Dec 10, several security-related websites picked up the vulnerability and released an article.

Announced

The Log4j2 is a Java-based logging utility that is part of the Apache Software. For more details on the background

blocked over 50,000 exploits.

https://www.fortiguard.com/outbreak-alert/lazarus-rat-attack

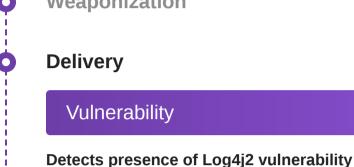
Access Trojans (RATs) malware in the wild exploiting Log4j Vulnerability.

Reconnaissance

Detects activities related to the Log4j2 vulnerability

v5.0+ **Decoy VM**

Detects activities related to the Log4j2 vulnerability



DB 2.087

IPS

FortiClient

Exploitation

Blocks exploitation of the Log4j2 vulnerability

FortiSASE

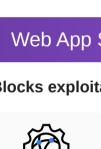
DB 19.231

FortiADC

DB 1.00030

FortiCWP

DB 21.3.0



FortiWeb

DB 0.00308

Installation

FortiGate

DB 19.231



C2 **Action**

DETECT

alert and generate reports:



Threat Hunting

FortiClient

Improve security posture and processes by implementing security awareness and training, in preparation for

https://www.cisa.gov/uscert/ncas/current-activity/2021/12/13/cisa-creates-webpage-apache-log4j-vulnerability-cve-2021-

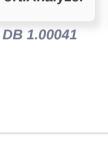
FortiEDR

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



Outbreak Detection

FortiAnalyzer



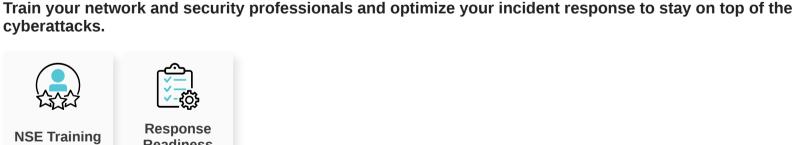


Assisted Response Services Experts to assist you with analysis, containment and response activities.

Forensics

Incident Response

(and recovery from) security incidents:



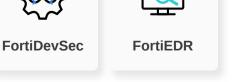
Readiness

and other forms of cyberattacks.



Awareness & **Training**

Check Security Fabric devices to build actionable configuration recommendations and key indicators.





44228

https://www.fortiguard.com/threat-signal-report/4335



CISA

US CERT

Threat Signal

Latest Developments Jun 27, 2022: Over 6 months later, stories of Log4j2 exploits continue to be published on near-daily basis and FortiGuard Labs continues to see active exploitation attempts. On a single day (Jun 14, 2022), FortiGuard IPS Feb 27, 2024: A new campaign conducted by the Lazarus Group is seen employing new DLang-based Remote

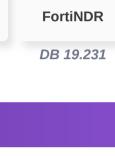
PROTECT Countermeasures across the security fabric for protecting assets, data and network from cybersecurity

Lure

FortiDeceptor







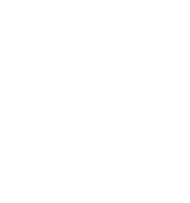
FortiDevSec

DB 22.3



FortiADC

DB 19.231



FortiProxy

DB 19.231

IOC

FortiAnalyzer

FortiSIEM

FortiSOAR

v7.4+

FortiSIEM

FortiSOCaaS







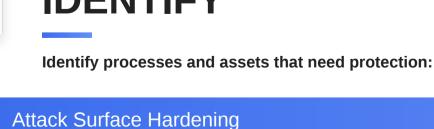
NOC/SOC Training

FortiRecon:

ACI

End-User Training Raise security awareness to your employees that are continuously being targetted by phishing, drive-by download

Response

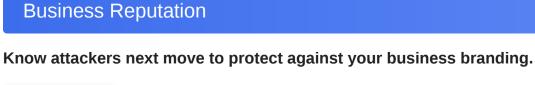


Security

Rating



FortiDAST





FortiRecon: **EASM**

https://www.cisa.gov/uscert/ncas/alerts/aa21-356a **Apache** https://logging.apache.org/log4j/2.x/security.html **PSIRT** https://www.fortiguard.com/psirt/FG-IR-21-245

FEIRTINET.

Learn more about FortiGuard Outbreak Alerts