

## Security Advisory 2021-076

# Fortinet Critical Vulnerability

December 18, 2021 — v1.0

TLP:WHITE

### History:

- 18/12/2021 — v1.0 – Initial publication

## Summary

On December 15th, Fortinet PSIRT updated its advisory related to CVE-2021-44228 and CVE-2021-45046 affecting Fortinet products [1]. While these CVE affect the Java logging library `log4j`, all products using this library are vulnerable to Unauthenticated Remote Code Execution [2].

## Technical Details

The vulnerability exists in the Java logging library `log4j`. An unauthenticated remote attacker might exploit this vulnerability by sending specially crafted content to the application to execute malicious code on the server [2].

## Affected products and fixed versions

Affected product	Fixed version
FortiAIOps	1.0.2
FortiCASB	Fixed on 2021-12-10
FortiConverter Portal	Fixed on 2021-12-10
FortiCWP	Fixed on 2021-12-10
FortiEDR Cloud	Not exploitable. Additional precautionary mitigations put in place on 2021-12-10
FortiInsight	Not exploitable. Additional precautionary mitigations being investigated.
FortiIsolator	Fix scheduled for version 2.3.4
FortiMonitor	Mitigations for NCM [3] & Elastiflow [4] available
FortiPortal	Fixed in 6.0.8 and 5.3.8
FortiSIEM	Mitigation available [5]
ShieldX	Fix scheduled for versions 2.1 and 3.0 - ETA 2021/12/17

## Recommendations

CERT-EU recommends applying the fixes or the mitigation provided by Fortinet PSIRT as soon as possible. Additionally, the Fortinet PSIRT provide:

- IPS Signature protection (FortiOS): VID 51006
- IPS Signature protection (FortiADC & FortiProxy): version 19.215
- Web Application Firewall Signature (FortiWeb & FortiWeb Cloud): database > 0.00305

*Please note that IPS and WAF signatures are not sufficient to fully mitigate the vulnerabilities.*

## References

[1] <https://www.fortiguard.com/psirt/FG-IR-21-245>

[2] <https://media.cert.europa.eu/static/SecurityAdvisories/2021/CERT-EU-SA2021-067.pdf>

[3] <https://docs.fortinet.com/document/fortimonitor/21.4.0/user-guide/733336/technical-tip-mitigating-log4j-vulnerability-impact-on-ncm>

[4] <https://docs.fortinet.com/document/fortimonitor/21.4.0/user-guide/411268/technical-tip-mitigating-log4j-vulnerability-impact-on-elastiflow-4-and-5>