

## NEWS

# Alert: Active scanning for Apache Log4j 2 vulnerability (CVE-2021-44228)

The NCSC is advising organisations to take steps to mitigate the Apache Log4j 2 vulnerability.

A remote code execution vulnerability (CVE-2021-44228) is affecting multiple versions of the Apache Log4j 2 library. The NCSC is aware that scanning for this vulnerability has been detected in the UK and exploitation detected elsewhere.

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## Details

Log4j 2 is an open-source Java logging library developed by the Apache Foundation. **It is widely used in many applications and is present in many services as a dependency.** This includes enterprise applications, including custom applications developed within an organisation, as well as numerous cloud services.

The Log4j 2 library is frequently used in enterprise Java software and is included in Apache frameworks including:

- Apache Struts2
- Apache Solr
- Apache Druid
- Apache Flink
- Apache Swift

Other large projects including **Netty**, **MyBatis** and the **Spring Framework** also make use of the library.

An application which consumes untrusted user input and passes this to a vulnerable version of the Log4j logging library may also be exploited.

Version 1 of the Log4j library is **no longer supported** and is affected by multiple security vulnerabilities. Developers should migrate to the latest version of Log4j 2.

More information is available at:

- <https://logging.apache.org/log4j/2.x/security.html>
- <https://logging.apache.org/log4j/2.x/download.html>

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## Mitigation

The NCSC recommends following vendor best practice advice in the mitigation of vulnerabilities. In the case of this vulnerability CVE-2021-44228, **the most important aspect is to install the latest updates as soon as practicable:**

- If you are using the Log4j 2 library as a dependency within an application you have developed, **ensure you update to version 2.15.0 or later**
- If you are using an affected third-party application, **ensure you keep the product updated to the latest version**
- The flaw can also be mitigated in previous releases (2.10 and later) by setting system property "log4j2.formatMsgNoLookups" to "true" or removing the JndiLookup class from the classpath

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## Advice to vendors of affected software

It may not always be easy for organisations to identify which applications use Apache Log4j 2 software. If you are a vendor of any affected software, the NCSC

advises **early communication with your customers** to enable them to apply mitigations or install updates where they are available.

**PUBLISHED**

10 December 2021

**NEWS TYPE**

Alert

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No