

# YSOFT SAFEQ LOG4J VULNERABILITY MITIGATION

December 15, 2021

We are aware of the current vulnerability in one widely used Java logging library: Apache Log4j. This library is a de facto market standard for logging and troubleshooting Java applications with countless number of applications using this library worldwide. YSoft SAFEQ is one of them. There are two vulnerabilities which have been reported and tracked as [CVE-2021-44228 \(nist.gov\)](#) and [CVE-2021-45046 \(nist.gov\)](#).

Note that Y Soft is working to release SAFEQ build 64 which will entirely mitigate the Apache Log4j vulnerability. Planned release date for build 64 is December 17, 2021. Prior to the availability of YSoft SAFEQ build 64, the following describes the proper mitigation process. Note that SAFEQ Cloud is not impacted. YSoft SAFEQ Managed customers will be proactively contacted by Y Soft customer support to mitigate their SAFEQ Managed environment.

Here are the following mitigation options.

SAFEQ Version	Vulnerable	Mitigation
SAFEQ 4	No	Not required
SAFEQ 5	No	Not required
SAFEQ 6 up to B44	Yes	Automated Log4jPatcher tool
SAFEQ 6 B45 up to B63	Yes	Automated Log4jPatcher tool
SAFEQ 6 B64	No	Planned release December 17, 2021
Data Protection Tool included in SAFEQ 6 (all versions)	Yes	Automated Log4jPatcher tool

## AUTOMATED LOG4JPATCHER TOOL

To mitigate the CVE-2021-44228 and CVE-2021-45046 vulnerabilities, we have released the Log4jPatcher tool. This tool replaces the **work-around steps published on December 13, 2021**, for CVE-2021-44228 and extends the mitigation by also including the [CVE-2021-45046](#) mitigation. **Customers who used the work-around steps are advised to run the patch tool as well to be fully protected.**

The tool was first released on December 14, 2021, to cover CVE-2021-44228. **Customers who used this version are advised to download and run the latest available** release to also mitigate CVE-2021-45046.

This tool scans your existing installation of YSoft SAFEQ 6 and fixes all occurrences of the affected log4j library. It removes the vulnerable code from each library and adjusts the runtime configuration to SAFEQ to disable the attack vector of the vulnerability. Please note that this has no impact on any SAFEQ 6 functionality. Your SAFEQ 6 installation will work as intended without any limitations after the tool has been applied.

You can download the tool in a .zip archive with a short README document from [here](#). The binary file (exe) is digitally signed by Y Soft. Please make sure that the file is properly signed before running it. To confirm that you are using the right file, here are the hashes of the .zip archive.

SHA1: 3e3101a38acc184bd4fc3384fa400dbc96af7b3e

SHA256: 7fa9af22aa535052bbfbc3dafebc632e73fe32f5a4270658466047915211f236

Upon completion of the Log4jPatcher tool, confirm that all YSoft Windows Services are running. At this point the patch has been successfully applied.