

Procedure to mitigate the risk concerning the CVE-2021-44228 vulnerability.

Please find below the tested and validated procedure to mitigate the risk concerning the CVE-2021-44228 vulnerability.

For modeling tools (Magic Software Architect, Magic Cyber Systems Engineer, Magic Systems of Systems Architect , MagicDraw, Cameo Systems Modeler, Cameo Enterprise Architecture)

In your installation base, please search for the following file: *log4j-core-2*.jar*

- If you do not find any result, you can stop the procedure here. Your installation is not vulnerable
- If you find a match, the log4j2 library is installed and could be exploited. Please execute these steps:

- Make sure application is not running
- Download log4j v2.16.0 (or 2.17.0) from apache website ([link](#))
- Search now for these jar files
 - log4j-core-2.*.jar
 - log4j-1.2-api-2.*.jar
 - log4j-api-2.*.jar
 - log4j-slf4j-impl-2.*.jar
- Replace any match by the 2.16.0 (or 2.17.0) version. **Make sure the original filename is unchanged.** See example below.
- The replacing and renaming operations must be performed for all jar files found from the list

Example - if you find log4j-core-2.11.2.jar:

1. Remove log4j-core-2.11.2.jar
2. Copy log4j-core-2.16.0.jar to the same location
3. Rename log4j-core-2.16.0.jar to log4j-core-2.11.2.jar

For collaboration tools (Magic Collaboration Studio, Cameo Collaborator for Teamwork Cloud, Teamwork Cloud)

In your installation base, please search for the following files: ***webapp.war, admin.war, collaborator.war, document-exporter.war, resource-usage-map.war, resources.war.***

- If you do not find any result, you can stop the procedure here. Your installation does not contain web applications
- If you find a match, you might need to replace log4j2 libraries inside found war files (for example ***webapp.war***). Please execute these steps with each found war file:

- Make sure application is not running
- Download log4j v2.16.0 (or 2.17.0) from apache website ([link](#))
- Uncompress(unzip) ***webapp.war*** into any tmp folder
- Search now for these jar files among unzipped ones
 - log4j-core-2.*.jar
 - log4j-api-2.*.jar

- Replace any match by the 2.16.0 (or 2.17.0) version. **Make sure the original filename is unchanged.** See example below.
- Compress(zip) all extracted files back to ***webapp_patched.war***. Make sure files structure in new war is same as in original war.
- Replace original ***webapp.war*** with ***webapp_patched.war*** and restore name back to ***webapp.war***
- Look for a folder named ***webapp*** next to ***webapp.war***. Delete folder if found.
- Start application

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3. Rename log4j-core-2.16.0.jar to log4j-core-2.11.2.jar