

Log4Shell Remediation Guide

DETECT

Find Log4J in your code, with no FOSSA account required:

- ✓ **With FOSSA CLI directly** (bit.ly/fossa-cli)

```
fossa log4j
```

- ✓ **With FOSSA CLI directly** (bit.ly/fossa-cli) and jq

```
fossa analyze . -o | jq . | grep 'log4j-core'
```

Log4J is present if grep finds and print matches

- ✓ **With FOSSA Enterprise**

Learn more about FOSSA: sales@fossa.com

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UPGRADE

Where possible, upgrade Log4J to **2.16.0** or higher

- ✓ **Direct Dependency:** Upgrade Log4J directly to **2.16.0**
- ✓ **Transitive Dependency:** Determine which dependencies rely on Log4J (FOSSA can help) and update them to a version that uses Log4J or higher

Note: Upgrading to **2.17.0** will also resolve a DoS vulnerability ([CVE-2021-45105](https://cve.mitre.org/cve/2021/45105))

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REMOVE

Remove problematic classes from your deployments using the following command (-q enables quiet mode, this can be disabled):

```
zip -q -d log4j-core-*.jar  
org/apache/logging/log4j/core/lookup/  
JndiLookup.class
```

Also remove: `JndiManager`, `JMSAppender`, `SMTPAppender`

These changes require **restarting the JVM**.

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DISABLE

You can **disable JNDI lookups** by setting the system property `LOG4J_FORMAT_MSG_NO_LOOKUPS` to true or setting an environment variable `log4j2.formatMsgNoLookups` to true.

Note: JNDI lookups are disabled by default in version **2.16.0+**

Using JDK settings such as changing `trustURLCodebase` is no longer considered an effective mitigation.

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