

OZ Log4j 2.25.4 Patch Guide

2026-04-24

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1. Overview

The default Log4j version included with OZ Server and OZ Scheduler may vary by release. For stability reasons, the latest version is not always bundled.

Therefore, you may manually apply the latest Log4j version if required.

This document describes how to apply Log4j 2.25.4, the latest version as of April 2026.

© Apache Security & Downloads

- Apache Log4j Security: <https://logging.apache.org/log4j/2.x/security.html>
- Download Log4j: <https://logging.apache.org/log4j/2.x/download.html>

© Applicable Products

- OZ Server
- OZ Scheduler Server

© Patch Files

- Download : https://www.oztn.net/ozguide/oz_log4j/log4j-2.25.4_oz/

File Name	Description
log4j-api-2.25.4.jar	
log4j-core-2.25.4.jar	
ozlog4j2.11.jar	
ozlogextra.jar	Required only when using BasicConfigurator or Category

- Latest version with security fixes as of 2026-04-24
- Supports JRE 1.8+

2. OZ Server Log4j Patch

① Verify that the **Java version** of the WAS used by the OZ Server is **1.8 or higher**.

② **Remove** existing Log4j-related files from:

oz80/WEB-INF/lib/

- ✓ log4j.jar
- ✓ log4j-api-*.jar, log4j-core-*.jar, ozlog4j2.jar
- ✓ logback-*.jar, ozlogback.jar

③ **Download** the following files and **upload** them to:

oz80/WEB-INF/lib

- ✓ log4j-api-2.25.4.jar
- ✓ log4j-core-2.25.4.jar
- ✓ ozlog4j2.11.jar

④ **Modify** the layout in:

oz80/WEB-INF/conf/log.properties

Change from **ISO8601** to **DEFAULT**

▪ Before:

```
ROLLING_FILE.Type=RollingFile  
ROLLING_FILE.Layout=%d{ISO8601} [%t] %-5p %c{1} %x - %m%n
```

▪ After:

```
ROLLING_FILE.Type=RollingFile  
ROLLING_FILE.Layout=%d{DEFAULT} [%t] %-5p %c{1} %x - %m%n
```

※ If not changed, a 'T' will appear between date and time.

⑤ **Restart** the OZ Server and **verify** report execution.

⑥ If the message "**ready up**" appears in: oz80/WEB-INF/logs/server.log the server has started successfully. (Valid when Priority=INFO or DEBUG)

3. OZ Scheduler Log4j Patch

The OZ HTML5 Manager (used in HTML5/SVG mode) should be patched in the same way.

※ {OZ Scheduler Folder} typically refers to directories like: OZ Scheduler 8.0, ozsch80, ozmng80

■ Common Steps (All Platforms)

① **Remove** existing Log4j-related files from:

{OZ Scheduler Folder}/lib

- ✓ log4j.jar
- ✓ log4j-api-*.jar, log4j-core-*.jar, ozlog4j2.jar
- ✓ logback-*.jar, ozlogback.jar

② **Copy** the following files into:

{OZ Scheduler Folder}/lib

- ✓ log4j-api-2.25.4.jar
- ✓ log4j-core-2.25.4.jar
- ✓ ozlog4j2.11.jar

③ **Modify** the layout in:

{OZ Scheduler Folder}/conf/scheduler_server_log.properties

▪ Before:

```
ROLLING_FILE.Type=RollingFile  
ROLLING_FILE.Layout=%d{ISO8601} [%t] %-5p %c{1} %x - %m%n
```

▪ After:

```
ROLLING_FILE.Type=RollingFile  
ROLLING_FILE.Layout=%d{DEFAULT} [%t] %-5p %c{1} %x - %m%n
```

※ If not changed, a 'T' will appear between date and time.

■ Windows (Service Mode)

After completing the common steps:

- ① **Open:** {OZ Scheduler Folder}/bin/OZSchedulerInstallService.bat and verify JRE version (1.8 or higher).

```
set JRE_PATH=C:\Program Files (x86)\Java\jre1.8.0_251\bin\client\jvm.dll
set OZSCHEDULER_HOME=.\
set OZSCHEDULER_HOME_BIN=C:\Program Files (x86)\Forcs\OZ Enterprise Server
8.0\OZ Scheduler 8.0\bin
```

- ② **Remove** old Log4j entries:

- ✓ log4j.jar
- ✓ log4j-api-*.jar, log4j-core-*.jar, ozlog4j2.jar
- ✓ logback-*.jar, ozlogback.jar

```
set OZSchLib=%OZSchLib%;%OZSCHEDULER_HOME%\lib\log4j.jar
```

- ③ **Add** new Log4j libraries:

- ✓ log4j-api-2.25.4.jar
- ✓ log4j-core-2.25.4.jar
- ✓ ozlog4j2.11.jar

```
rem -----
rem      Library for Log4j 2.25.4
rem -----
set OZSchLib=%OZSchLib%;%OZSCHEDULER_HOME%\lib\log4j-api-2.25.4.jar
set OZSchLib=%OZSchLib%;%OZSCHEDULER_HOME%\lib\log4j-core-2.25.4.jar
set OZSchLib=%OZSchLib%;%OZSCHEDULER_HOME%\lib\ozlog4j2.11.jar
```

- ④ **Run** as Administrator in order: OZSchedulerUninstallService.bat, OZSchedulerInstallService.bat
- ⑤ **Start** the **OZScheduler** service.
- ⑥ If the message "**ready up**" appears in: {OZ Scheduler Folder}/logs/OZSchedulerMainLog.log the server has started successfully.

※ If not using Windows service, modify scheduler.bat and scheduler_stop.bat instead.

■ Unix, Linux

After completing the common steps:

- ① **Open** {OZ Scheduler Folder}/bin/scheduler.sh in a text editor and verify that the JRE version is 1.8 or higher.

```
OZSCHEDULER_HOME=/apps/ozsch80
JAVA_HOME=/usr/java8/
```

- ② **Open** {OZ Scheduler Folder}/bin/scheduler.sh and scheduler_stop.sh in a text editor, and **modify** the Log4j-related libraries as follows (remove the existing log4j.jar and add the four new JAR files).

```
# -----
#       Library for Log4j 2.25.4
# -----
#OZSchLib=$OZSchLib:$OZSCHEDULER_HOME/lib/log4j.jar
OZSchLib=$OZSchLib:$OZSCHEDULER_HOME/lib/log4j-api-2.25.4.jar
OZSchLib=$OZSchLib:$OZSCHEDULER_HOME/lib/log4j-core-2.25.4.jar
OZSchLib=$OZSchLib:$OZSCHEDULER_HOME/lib/ozlog4j2.11.jar
```

- ③ **Restart** the scheduler. (The .sh file names may vary.)

```
oz_stop.sh // Stop the scheduler
```

```
ps -ef | grep scheduler // After stopping, there should be no Java process running the scheduler
```

```
oz_start.sh // Start the scheduler
```

- ④ **Check** {OZ Scheduler Folder}/logs/OZSchedulerMainLog.log.

If the message "ready up" appears, the scheduler has started successfully.

4. Troubleshooting

- If **ozlog4j2.11.jar** is missing, the following error will occur:

```
javax.servlet.ServletException: <OZ Servlet> Error in configure. :
java.lang.NoClassDefFoundError: org/apache/log4j/Category
    at oz.server.OZServlet.a(OZServlet.java:273)
    at oz.server.OZServlet.a(OZServlet.java:331)
    at oz.server.OZServlet.init(OZServlet.java:86)
    at org.apache.catalina.core.StandardWrapper.initServlet(StandardWrapper.java:1115)
    at org.apache.catalina.core.StandardWrapper.loadServlet(StandardWrapper.java:1064)
    at org.apache.catalina.core.StandardWrapper.allocate(StandardWrapper.java:748)
    at
org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:115)
    at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:90)
    at
org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:494)
```

- If **ozlog4j2.jar** is used instead of **ozlog4j2.11.jar**, the following error will occur:

```
java.lang.NoSuchMethodError:
org.apache.logging.log4j.core.layout.PatternLayout.createLayout(Ljava/lang/String;Lorg/apach
e/logging/log4j/core/config/Configuration;Lorg/apache/logging/log4j/core/pattern/RegexReplac
ement;Ljava/nio/charset/Charset;ZZLjava/lang/String;Ljava/lang/String;)Lorg/apache/logging/log
4j/core/layout/PatternLayout;
    at
com.forcs.log4oz.ver2.OZConsoleAppender.createAppender(OZConsoleAppender.java:48)
    at com.forcs.log4oz.ver2.OZCategory.addAppender(OZCategory.java:167)
    at oz.framework.log.c.a(PropertiesParser.java:578)
    at oz.framework.log.c.a(PropertiesParser.java:250)
    at oz.framework.log.OZLogManager.a(OZLogManager.java:660)
```

5. OZ API

When using OZ API (server binding, scheduler-based export, etc.), Log4j patching is also required for the web module where the API is implemented.

For example, if ozsfw80.jar exists in a business web module (not OZ Server), that module must also be patched.

Patch Steps for API Module

Copy the following JAR files into:

WEB-INF/lib/

- ✓ log4j-api-2.25.4.jar
- ✓ log4j-core-2.25.4.jar
- ✓ ozlog4j2.11.jar
- ✓ ozlogextra.jar (only required if BasicConfigurator or Category is used)