



Red Hat JBoss Web Server 6.0

Red Hat JBoss Web Server 6.0 Service Pack 4 Release Notes

For Use with the Red Hat JBoss Web Server 6.0

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Abstract

These release notes contain important information related to the Red Hat JBoss Web Server 6.0 Service Pack 4.

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PROVIDING FEEDBACK ON RED HAT JBOSS WEB SERVER DOCUMENTATION

To report an error or to improve our documentation, log in to your Red Hat Jira account and submit an issue. If you do not have a Red Hat Jira account, then you will be prompted to create an account.

Procedure

1. Click the following link to [create a ticket](#).
2. Enter a brief description of the issue in the **Summary**.
3. Provide a detailed description of the issue or enhancement in the **Description**. Include a URL to where the issue occurs in the documentation.
4. Clicking **Create** creates and routes the issue to the appropriate documentation team.

MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see [our CTO Chris Wright's message](#).

CHAPTER 1. RED HAT JBOSS WEB SERVER 6.0 SERVICE PACK 4

Welcome to the Red Hat JBoss Web Server version 6.0 Service Pack 4 release.

Red Hat JBoss Web Server is a fully integrated and certified set of components for hosting Java web applications. It consists of an application server (Apache Tomcat servlet container) and the Apache Tomcat Native Library.

JBoss Web Server includes the following key components:

- **Apache Tomcat** is a servlet container in accordance with the Java Servlet Specification. JBoss Web Server contains Apache Tomcat 10.1.
- The **Apache Tomcat Native Library** improves Tomcat scalability, performance, and integration with native server technologies.
- **Tomcat-vault** is an extension for the JBoss Web Server that is used for securely storing passwords and other sensitive information used by a JBoss Web Server.
- The **mod_cluster** library enables communication between JBoss Web Server and the Apache HTTP Server **mod_proxy_cluster** module. The **mod_cluster** library enables you to use the Apache HTTP Server as a load balancer for JBoss Web Server. For more information about configuring **mod_cluster**, or for information about installing and configuring alternative load balancers such as **mod_jk** and **mod_proxy**, see the [Apache HTTP Server Connectors and Load Balancing Guide](#).
- **Apache portable runtime (APR)** is a runtime that provides an OpenSSL-based TLS implementation for the HTTP connectors. JBoss Web Server provides a distribution of APR for supported Windows platforms only. For Red Hat Enterprise Linux, you can use the APR package that the operating system provides.
- **OpenSSL** is a software library that implements the Secure Sockets Layer (SSL) and Transport Layer Security (TLS) protocols and includes a basic cryptographic library. JBoss Web Server provides a distribution of OpenSSL for supported Windows platforms only. For Red Hat Enterprise Linux, you can use the OpenSSL package that the operating system provides.

This release of JBoss Web Server introduces Java 21 support.

This release of JBoss Web Server provides OpenShift images based on Red Hat Enterprise Linux 8.



NOTE

Red Hat distributes the JBoss Web Server 6.0 Service Pack 4 release in RPM packages only. This service pack release is not available in archive file format.

CHAPTER 2. NEW FEATURES AND ENHANCEMENTS

Red Hat JBoss Web Server 6.0 Service Pack 4 includes the following new features and enhancements.

2.1. JAVA 21 SUPPORT

JBoss Web Server 6.0 is now certified for use with Red Hat build of OpenJDK 21 and Oracle JDK 21.



NOTE

Java 21 is now fully tested and supported for both RPM package and archive file distributions of JBoss Web Server 6.0.

This service pack release is not available in archive file format, but the existing JBoss Web Server 6.0 archive file distributions are fully compatible with Java 21 support.

2.2. JWS FOR OPENSIFT IMAGE FOR OPENJDK 21

This release introduces support for importing JWS for OpenShift images that are compatible with OpenJDK 21. In this release, you can import a **jboss-webserver60-openjdk21-tomcat10-openshift-ubi8** image.



NOTE

For more information about importing the **jboss-webserver60-openjdk21-tomcat10-openshift-ubi8** image, see the [RHEA-2024:6900](#) advisory.

Because this Service Pack 4 release is not available in archive file format, the latest **jboss-webserver60-openjdk21-tomcat10-openshift-ubi8** image is based on the 6.0.3 archive file distribution.

CHAPTER 3. INSTALLING THE RED HAT JBOSS WEB SERVER 6.0

You can install the JBoss Web Server 6.0 on Red Hat Enterprise Linux or Microsoft Windows. For more information see the following sections of the installation guide:

- [Installing JBoss Web Server on Red Hat Enterprise Linux from archive files](#)
- [Installing JBoss Web Server on Red Hat Enterprise Linux from RPM packages](#)
- [Installing JBoss Web Server on Microsoft Windows](#)

CHAPTER 4. UPGRADING RED HAT JBOSS WEB SERVER USING THIS SERVICE PACK

If you have installed Red Hat JBoss Web Server from RPM packages on Red Hat Enterprise Linux, you can use the following **yum** command to upgrade to the latest service pack:

```
# yum upgrade
```



NOTE

Red Hat distributes the JBoss Web Server 6.0 Service Pack 4 release in RPM packages only.

CHAPTER 5. OS/JVM CERTIFICATIONS

This release is supported for use with the following operating system and Java Development Kit (JDK) versions:

Operating System	Chipset Architecture	Java Virtual Machine
Red Hat Enterprise Linux 9	x86_64	<ul style="list-style-type: none"> ● Red Hat build of OpenJDK 11 ● Red Hat build of OpenJDK 17 ● Red Hat build of OpenJDK 21 ● Oracle JDK 11 ● Oracle JDK 17 ● Oracle JDK 21
Red Hat Enterprise Linux 8	x86_64	<ul style="list-style-type: none"> ● Red Hat build of OpenJDK 11 ● Red Hat build of OpenJDK 17 ● Red Hat build of OpenJDK 21 ● Oracle JDK 11 ● Oracle JDK 17 ● Oracle JDK 21
Microsoft Windows 2019 Server	x86_64	<ul style="list-style-type: none"> ● Red Hat build of OpenJDK 11 ● Red Hat build of OpenJDK 17 ● Red Hat build of OpenJDK 21 ● Oracle JDK 11 ● Oracle JDK 17 ● Oracle JDK 21



NOTE

Red Hat Enterprise Linux 7 and Microsoft Windows 2016 Server are not supported.

CHAPTER 6. RESOLVED ISSUES

There are no resolved issues for this release.

For details of any security fixes in this release, see the errata links in [Advisories related to this release](#).

CHAPTER 7. KNOWN ISSUES

There are no known issues for this release.

CHAPTER 8. SUPPORTED COMPONENTS

For a list of component versions that are supported in this release of Red Hat JBoss Web Server, see the [JBoss Web Server Component Details](#) page.

CHAPTER 9. ADVISORIES RELATED TO THIS RELEASE

The following advisories have been issued to document enhancements, bug fixes, and CVE fixes included in this release:

- [RHBA-2024:6899](#)
- [RHEA-2024:6900](#)