Red Hat JBoss Web Server 5.6 Red Hat JBoss Web Server 5.6 Service Pack 1 Release Notes

For Use with the Red Hat JBoss Web Server 5.6
Abstract

These release notes contain important information related to the Red Hat JBoss Web Server 5.6 Service Pack 1.
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Thank you for the valuable feedback.
CHAPTER 1. RED HAT JBOSS WEB SERVER 5.6 SERVICE PACK
1

Welcome to the Red Hat JBoss Web Server version 5.6 Service Pack 1 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 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 9.

- **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.

- **Mod_cluster** is a library that enables communication between Apache Tomcat and the Apache HTTP Server’s **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 configuring alternative load balancers such as mod_jk and mod_proxy, see the [HTTP Connectors and Load Balancing Guide](#).

- **Apache portable runtime (APR)** is a runtime that provides superior scalability, performance, and improved integration with native server technologies. APR is a highly portable library that is at the heart of Apache HTTP Server 2.x. It enables access to: advanced IO functionality such as sendfile, epoll and OpenSSL; functionality at the operating system level such as random number generation and system status; and native process handling such as shared memory, NT pipes and Unix sockets.

- **OpenSSL** is a software library that implements the Secure Sockets Layer (SSL) and Transport Layer Security (TLS) protocols and includes a basic cryptographic library.

This release includes enhancements such as Java 17 support and JBoss Web Server metering labels for OpenShift.

Red Hat JBoss Web Server 5.6 OpenShift images based on Red Hat Enterprise Linux 7 are no longer provided with this release. Red Hat JBoss Web Server 5.6 images based on Red Hat Enterprise Linux 8 are provided with this release.
CHAPTER 2. NEW FEATURES AND ENHANCEMENTS

Red Hat JBoss Web Server 5.6 Service Pack 1 includes the following new features and enhancements.

2.1. JAVA 17 SUPPORT

Red Hat JBoss Web Server 5.6 is now certified for use with Red Hat OpenJDK 17 and Oracle JDK 17.

2.2. RED HAT JBOSS WEB SERVER METERING LABELS FOR RED HAT OPENSHIFT

You can add metering labels to your Red Hat JBoss Web Server pods and check Red Hat subscription details with the OpenShift Metering Operator.

NOTE

- Do not add metering labels to any pods that an operator or a template deploys and manages.
- You can apply labels to pods using the Metering Operator on OpenShift Container Platform version 4.8 and earlier. From version 4.9 onward, the Metering Operator is no longer available without a direct replacement.

Red Hat JBoss Web Server can use the following metering labels:

- `com.company: Red_Hat`
- `rht.prod_name: Red_Hat_Runtimes`
- `rht.prod_ver: 2022-Q1`
- `rht.comp: JBoss_Web_Server`
- `rht.comp_ver: 5.6.1`
- `rht.subcomp: Tomcat 9`
- `rht.subcomp_t: application`

Additional resources

- Configuring and using Metering in OpenShift Container Platform

2.3. OPENJDK11 OPENSHIFT IMAGES SUPPORT MULTIPLE ARCHITECTURES

OpenJ9 images for IBM Z and IBM Power Systems will be deprecated. The following OpenJDK11 image has been updated to support multiple architectures:

- `jboss-webserv56-openjdk11-tomcat9-openshift-ubi8`

You can use the OpenJDK11 image with the following architectures:
- x86 (x86_64)
- s390x (IBM Z)
- ppc64le (IBM Power Systems)
CHAPTER 3. INSTALLING THE RED HAT JBOSS WEB SERVER 5.6

The JBoss Web Server 5.6 can be installed using one of the following sections of the installation guide:

- Installing JBoss Web Server on Red Hat Enterprise Linux.
- Installing JBoss Web Server on Microsoft Windows.
CHAPTER 4. UPGRADING RED HAT JBOSS WEB SERVER USING THIS SERVICE PACK

To install this service pack:

1. Download the Red Hat JBoss Web Server 5.6 Service Pack 1 file (.zip format) appropriate to your platform using the download link here (subscription required).

2. Extract the .zip file to the Red Hat JBoss Web Server installation directory.

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
```
CHAPTER 5. OS/JVM CERTIFICATIONS

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

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Chipset Architecture</th>
<th>Java Virtual Machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Enterprise Linux 8</td>
<td>x86_64</td>
<td>Red Hat OpenJDK 1.8.x, Red Hat OpenJDK 11, Red Hat OpenJDK 17, Oracle JDK 11, Oracle JDK 17</td>
</tr>
<tr>
<td>Red Hat Enterprise Linux 7</td>
<td>x86_64</td>
<td>Red Hat OpenJDK 1.8.x, Red Hat OpenJDK 11, Red Hat OpenJDK 17, Oracle JDK 1.8.x, Oracle JDK 11, Oracle JDK 17</td>
</tr>
<tr>
<td>Microsoft Windows 2019 Server</td>
<td>x86_64</td>
<td>Red Hat OpenJDK 1.8.x, Red Hat OpenJDK 11, Red Hat OpenJDK 17, Oracle JDK 1.8.x, Oracle JDK 11, Oracle JDK 17</td>
</tr>
<tr>
<td>Microsoft Windows 2016 Server</td>
<td>x86_64</td>
<td>Red Hat OpenJDK 1.8.x, Red Hat OpenJDK 11, Red Hat OpenJDK 17, Oracle JDK 1.8.x, Oracle JDK 11, Oracle JDK 17</td>
</tr>
</tbody>
</table>

**NOTE**

Red Hat Enterprise Linux 6 is not supported.

**NOTE**

Microsoft Windows 2012 Server R2 is not supported.
CHAPTER 6. SECURITY FIXES

There are no security fixes for this release.
CHAPTER 7. RESOLVED ISSUES

There are no resolved issues for this release.
CHAPTER 8. KNOWN ISSUES

There are no known issues for this release.
For a full list of component versions that are supported in this release of Red Hat JBoss Web Server, see the JBoss Web Server Component Details page.