



# Red Hat JBoss Web Server 5.5

## Red Hat JBoss Web Server 5.5 Release Notes

For Use with the Red Hat JBoss Web Server 5.5



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## Abstract

These release notes contain important information related to the Red Hat JBoss Web Server 5.5.

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# CHAPTER 1. REDHAT JBOSS WEB SERVER 5.5

Welcome to the Red Hat JBoss Web Server version 5.5 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. A short description of key components is given below:

- **Apache tomcat:** a servlet container in accordance with the Java Servlet Specification. JBoss Web Server contains Apache Tomcat 9.
- **Apache tomcat native library:** a Tomcat library, which improves Tomcat scalability, performance, and integration with native server technologies.
- **tomcat-vault:** an extension for the JBoss Web Server used for securely storing passwords and other sensitive information used by a JBoss Web Server.
- **mod\_cluster** library: a library that allows communication between Apache Tomcat and the Apache HTTP Server's `mod_proxy_cluster` module. This allows the Apache HTTP Server to be used as a load balancer for JBoss Web Server. For information on the configuration of `mod_cluster`, or for information on the installation and configuration of the alternative load balancers `mod_jk` and `mod_proxy`, see the [HTTP Connectors and Load Balancing Guide](#) .
- **Apache portable runtime(APR):** A runtime which 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 (for example: `sendfile`, `epoll` and `OpenSSL`), Operating System level functionality (for example: random number generation and system status), and native process handling (shared memory, NT pipes and Unix sockets).
- **OpenSSL:** A software library which implements the Secure Sockets Layer (SSL) and Transport Layer Security (TLS) protocols and includes a basic cryptographic library.

This release of JBoss Web Server focuses on syncing JWS with the latest Apache HTTPD JBoss Core Services, as well as fixing some security issues.

Red Hat JBoss Web Server 5.5 OpenShift images based on Red Hat Enterprise Linux 7 are no longer provided with this release. Red Hat JBoss Web Server 5.5 images based on Red Hat Enterprise Linux 8 are provided with this release.

## CHAPTER 2. INSTALLING THE RED HAT JBOSS WEB SERVER 5.5

The JBoss Web Server 5.5 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 3. OS/JVM CERTIFICATIONS

Operating System	Chipset Architecture	Java Virtual Machine
Red Hat Enterprise Linux 8	x86_64	Red Hat OpenJDK 1.8.x, Red Hat OpenJDK 11, OracleJDK 11
Red Hat Enterprise Linux 7	x86_64	Red Hat OpenJDK 1.8.x, Red Hat OpenJDK 11, Oracle JDK 1.8.x, Oracle JDK 11, IBM JDK 1.8.x
Microsoft Windows 2019 Server	x86_64	Red Hat OpenJDK 1.8.x, Red Hat OpenJDK 11, Oracle JDK 1.8.x, Oracle JDK 11
Microsoft Windows 2016 Server	x86_64	Red Hat OpenJDK 1.8.x, Red Hat OpenJDK 11, Oracle JDK 1.8.x, Oracle JDK 11
Microsoft Windows 2012 Server R2	x86_64	Red Hat OpenJDK 1.8.x, Red Hat OpenJDK 11, Oracle JDK 1.8.x, Oracle JDK 11

Red Hat Enterprise Linux 6 is not supported.

## CHAPTER 4. SECURITY FIXES

This update includes fixes for the following security related issues:

ID	Impact	Summary
<a href="#">CVE-2020-25638</a>	Important	hibernate-core: SQL injection vulnerability when both <code>hibernate.use_sql_comments</code> and JPQL String literals are used [jws-5]
<a href="#">CVE-2021-25122</a>	Moderate	tomcat: Request mix-up with h2c [jws-5]
<a href="#">CVE-2021-25329</a>	Low	Incomplete fix for CVE-2020-9484 (RCE via session persistence) [jws-5]

## CHAPTER 5. RESOLVED ISSUES

Issue	Description
JWS-1994	Deprecate JWS Container Images for RHEL7
JWS-1857	Documentation doesn't match changed behaviour of HealthCheckValve
JWS-1834	Ensure the overhead check runs after every frame
JWS-1200	Implement JWS Health Check so that it can be consumed by OpenShift
JWS-1708	JWS5 requires Java8
JWS-1969	MODCLUSTER-728 - Proxy configured by a hostname caches resolved address indefinitely
JWS-1462	OpenShift image create apr connector with SSLVerifyClient="optional" but doesn't provide a CA file.
JWS-1485	Provide a JWS Openshift image for PowerPC
JWS-1838	Rebase tomcat to version 9.0.43
JWS-2069	System properties are no longer expanded in JWS 5.4
JWS-1528	Tomcat - implement pooled LDAP connection for JNDIRealm
JWS-1841	Unable to enable SECURITY_MANAGER through jws5-tomcat.conf in zip based installation
JWS-1845	Update hibernate to latest available version
JWS-1839	Update apr and openssl from JBCS to versions from jbcs-httpd-2.4.37.SP8
JWS-1836	Upgrade mod_cluster to latest available version
JWS-1840	Upgrade tomcat-native to 1.2.26
JWS-1835	Upgrade/Rebase components for the release 5.5
JWS-1665	bndlib is not needed

## CHAPTER 6. KNOWN ISSUES

There are no Known issues this release.

## CHAPTER 7. COMPONENTS INCLUDED IN RED HAT JBOSS WEB SERVER 5.5

Component	Version
Apache CXF	3.3.5
Apache Tomcat	9.0.43
ECJ	4.12.0
Hibernate	5.3.20.Final
JBoss logging	3.4.1.Final
libapr	1.6.3
mod_cluster	1.4.3.Final
OpenSSL	1.1.1g
Tomcat-Native	1.2.26
Tomcat-Vault	1.1.8.Final