Red Hat JBoss Web Server 5.4

Red Hat JBoss Web Server 5.4 Service pack 1 Release Notes

For Use with the Red Hat JBoss Web Server 5.4

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Abstract

These release notes contain important information related to the Red Hat JBoss Web Server 5.4 Service Pack 1.

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CHAPTER 1. REDHAT JBOSS WEB SERVER 5.4 SERVICE PACK 1

Welcome to the Red Hat JBoss Web Server version 5.4 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 a web server (Apache HTTP Server), an application server (Apache Tomcat Servlet container), load balancers (mod_jk and mod_cluster), 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 covers, few major security updates.

NOTE

Red Hat Enterprise Linux 6 is no longer supported with this service pack update.

CHAPTER 2. INSTALLING THE RED HAT JBOSS WEB SERVER 5.4

The JBoss Web Server 5.4 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. UPGRADING RED HAT JBOSS WEB SERVER USING THIS SERVICE PACK

To install this service pack:

1. Download the Red Hat JBoss Web Server 5.4 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.

For Red Hat Enterprise Linux users who have installed Red Hat JBoss Web Server from RPM packages, can upgrade to the latest service pack using yum:

```
# yum upgrade
```

CHAPTER 4. 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 no longer supported with this service pack update.

CHAPTER 5. SUPPORT FOR RED HAT JBOSS WEB SERVER ON IBM Z/IBM POWER

The Red Hat JBoss Web Server for s390x/ppc64le platform is supported only in OpenShift environments provisioned on IBM Z/IBM Power infrastructure. Running the Red Hat JBoss Web Server on a stand-alone installation of RHEL on IBM Z/IBM Power is not supported. Different images are supported for different architectures. The example codes in this guide demonstrate the commands for x86_64 architecture. If you are using other architectures, specify the relevant image name in the commands. See the Red Hat Container Catalog for more information about images.

CHAPTER 6. SECURITY FIXES

This update includes fixes for the following security related issues:

ID	Impact	Summary
CVE-2020-1971	Important	openssl: EDIPARTYNAME NULL pointer de-reference [jws-5]
CVE-2020-13943	Moderate	tomcat: Apache Tomcat HTTP/2 Request mix-up [jws-5]
CVE-2020-17527	Moderate	tomcat: HTTP/2 request header mix-up [jws-5]
CVE-2021-24122	Moderate	tomcat: Information disclosure when using NTFS file system [jws-5]

CHAPTER 7. RESOLVED ISSUES

Issue	Description
JWS-1906	Update to the latest JBCS version

CHAPTER 8. KNOWN ISSUES

Issue	Description
JWS-1740	Warning thrown after loading persisted configuration
JWS-1857	Documentation doesn't match changed behaviour of HealthCheckValve

CHAPTER 9. COMPONENTS INCLUDED IN RED HAT JBOSS WEB SERVER 5.4

Red Hat JBoss Web Server 5.4 Service Pack 1 includes the following components:

Component	Version
Apache CXF	3.3.5
Apache Tomcat	9.0.36
ECJ	4.12.0
Hibernate	5.3.16.Final
JBoss logging	3.4.1.Final
libapr	1.6.3
mod_cluster	1.4.2.Final
OpenSSL	1.1.1g
Tomcat-Native	1.2.25
Tomcat-Vault	1.1.8.Final