Red Hat support for Spring Boot 2.4

Release Notes for Spring Boot 2.4

For use with Spring Boot 2.4.9

Last Updated: 2022-03-11

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For use with Spring Boot 2.4.9

Legal Notice

Abstract

This Release Note contains important information related to Spring Boot 2.4.9

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PREFACE

Date of release: 2021-09-08

PROVIDING FEEDBACK ON RED HAT DOCUMENTATION

We appreciate your feedback on our documentation. To provide feedback, you can highlight the text in a document and add comments.

This section explains how to submit feedback.

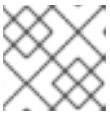
Prerequisites

- You are logged in to the Red Hat Customer Portal.
- In the Red Hat Customer Portal, view the document in **Multi-page HTML** format.

Procedure

To provide your feedback, perform the following steps:

1. Click the **Feedback** button in the top-right corner of the document to see existing feedback.



NOTE

The feedback feature is enabled only in the **Multi-page HTML** format.

2. Highlight the section of the document where you want to provide feedback.
3. Click the **Add Feedback** pop-up that appears near the highlighted text.
   A text box appears in the feedback section on the right side of the page.
4. Enter your feedback in the text box and click **Submit**.
   A documentation issue is created.
5. To view the issue, click the issue tracker link in the feedback view.

CHAPTER 1. REQUIRED INFRASTRUCTURE COMPONENT VERSIONS

Red Hat does not provide support for components listed below, with the exception of components explicitly designated as supported.

Component name	Version
Maven	3.6.0
Fabric8 Maven Plugin	4.4.1
JDK[a][b]	OpenJDK 8, OpenJDK 11[c]
Red Hat Enterprise Linux 7[d]	7.7
Red Hat Enterprise Linux 8[e]	8.1
OpenShift Container Platform (OCP)[f]	3.11, 4.8.13
git	2.0 or later
oc command line tool	3.11 or later[g]

[a] A full JDK installation is required, as JRE does not provide tools for compiling Java applications from source.

[b] Red Hat OpenJDK is supported by Red Hat

[c] OpenJDK 9 is not supported by Red Hat.

[d] For deploying applications based on CNR on stand-alone RHEL in a production environment.

[e] For deploying applications based on CNR on stand-alone RHEL in a production environment.

[f] OCP is supported by Red Hat

[g] The version of the **oc** CLI tool should correspond to the version of OCP that you are using.

CHAPTER 2. SUPPORTED SPRING BOOT RUNTIME COMPONENT CONFIGURATIONS AND INTEGRATIONS

The following resource defines the supported configurations and integrations of Red Hat products with Spring Boot:

- For a list of technologies that are supported for integration with Spring Boot in production environments see the Supported Spring Boot configurations and integrations.
- For a list of Maven artifacts that Red Hat provides support for in Spring Boot 2.4.9 see the corresponding section of the component details overview.

CHAPTER 3. FEATURES

3.1. NEW AND CHANGED FEATURES

3.1.1. Deploy Spring Boot applications to OpenShift using the Dekorate Maven dependency

Use the Dekorate Maven dependency to deploy your Spring Boot applications to OpenShift. The Fabric8 Maven plugin is no longer supported. For information about deploying your application to OpenShift, see Deploying Spring Boot application to OpenShift .

3.1.2. 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:

- **ubi8/openjdk-11**

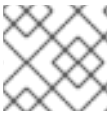
You can use the OpenJDK11 image with the following architectures:

- x86 (x86_64)
- s390x (IBM Z)
- ppc64le (IBM Power Systems)

If you want to use the OpenJ9 Java Virtual Machine (JVM) with the OpenJDK11 images, see Java Change in Power and Z OpenShift Images.

3.1.3. Spring Boot metering labels for OpenShift

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



NOTE

Do not add metering labels to any pods that an operator deploys and manages.

Spring Boot should use the following metering labels:

- **com.company: Red_Hat**
- **rht.prod_name: Red_Hat_Runtimes**
- **rht.prod_ver: 2021-Q4**
- **rht.comp: Spring_Boot**
- **rht.comp_ver: 2.4.9**
- **rht.subcomp: <leave_blank>**
- **rht.subcomp_t: application**

See Metering documentation for more information.

For more information on labels, see Understanding how to update labels on nodes .

3.2. DEPRECATED FEATURES

No features or functionalities are marked as deprecated in this release.

3.3. TECHNOLOGY PREVIEW

3.3.1. Dekorate build hooks for deploying Spring Boot applications to OpenShift Container Platform

You can use Dekorate to configure a Source-to-image build of your application that starts automatically after you compile your application with Maven. This functionality is provided as Technology Preview in Dekorate version 1.0.0 and later. Red Hat does not provide support for using this functionality in a production environment.

CHAPTER 4. RELEASE COMPONENTS

For a complete list of release components included in this release, and for information about the current support status of these components, see the Spring Boot 2.4.9 component details overview.

CHAPTER 5. FIXED ISSUES

This Spring Boot release incorporates all bugfixes from the upstream release. Issues resolved in the community release are listed in the Spring Boot 2.4.9 Release Notes.

CHAPTER 6. KNOWN ISSUES

- Red Hat AMQ Streams images are not available for IBM Z and IBM Power Systems
  The Red Hat AMQ Streams Operator and Kafka images are not available for IBM Z and IBM Power Systems. Since the images are not available, the starter **vertx-spring-boot-starter-kafka** is not certified to work with AMQ Streams on IBM Z and IBM Power Systems.

- ENTSBT-850: Spring Boot Validation Starter Exception: Package **javax.validation.constraints** does not exist.

- SB-379: Missing APR/native library in the **openshift-openjdk** image.

- SB-1165: Database application fails to run because **org.apache.tomcat.jdbc.pool.DataSource** can not be found.

- ENTSBT-202: Mutual TLS authentication in Spring Boot Webflux AMQP does not work.

- ENTSBT-366: Infinispan Hotrod Client Starter: **org.infinispan.client.hotrod.exceptions.HotRodClientException:: ISPN004034: Unable to unmarshall bytes** when the **infinispan.remote.java-serial-whitelist=<your_class_name>** property is not set in **application.properties**.

- ENTSBT-367: Remote communication between Red Hat Spring Boot 2.4.9 with Infinispan/Red Hat Data Grid 7.3 does not work without setting the **infinispan.remote.protocol-version=2.6** property.

- ENTSBT-1139: There are missing jars in 2.4.9 Maven repository.
  This is not an issue if you connect to the Red Hat Maven Repository.

- ENTSBT-1143: **spring-cloud-netflix-hystrix** component has been removed from Spring Boot 2.4.9.

- ENTSBT-1145: There are two **io.vertx:vertx-dependencies** BOM files in the release:

  - **3.9.6.redhat-00001.pom**

  - **3.9.8.redhat-00004.pom**.

  Use **3.9.8.redhat-00004.pom** with Eclipse Vert.x Spring Boot Starter because the dependencies for the starter are included only in the **3.9.8.redhat-00004.pom** file.

CHAPTER 7. ADVISORIES RELATED TO THIS RELEASE

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

- RHSA-2021:4012