Red Hat OpenShift Application
Runtimes 1

RHOAR Spring Boot 1.5.x Release Notes

For use with Red Hat OpenShift Application Runtimes Spring Boot 1.5.x
Abstract

This Release Note contains important information related to Red Hat OpenShift Application Runtimes Spring Boot 1.5.x
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PREFACE

Date of release: 2018-12-06
# CHAPTER 1. REQUIRED INFRASTRUCTURE COMPONENT VERSIONS

The following versions of infrastructure components are required for all runtimes distributed as part of a RHOAR release. Red Hat does not provide support for components listed below, with the exception of components explicitly designated as supported.

<table>
<thead>
<tr>
<th>Component name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maven</td>
<td>3.5.0</td>
</tr>
<tr>
<td>Fabric8 Maven Plugin</td>
<td>4.1.0</td>
</tr>
<tr>
<td>JDK[a][b]</td>
<td>OpenJDK 8[c]</td>
</tr>
<tr>
<td>OpenShift Container Platform (OCP)[d]</td>
<td>3.11 or later</td>
</tr>
<tr>
<td>Minishift</td>
<td>1.34.0 or later</td>
</tr>
<tr>
<td>CDK[e]</td>
<td>3.8.0</td>
</tr>
<tr>
<td>git</td>
<td>2.0 or later</td>
</tr>
<tr>
<td>oc command line tool</td>
<td>3.11 or later[f]</td>
</tr>
</tbody>
</table>

[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] OCP is supported by Red Hat.

[e] CDK is supported by Red Hat.

[f] The version of the `oc` CLI tool should correspond to the version of OCP that you are using.
The following resource defines the supported configurations and integrations of Red Hat products with RHOAR Spring Boot:

- For a list of technologies that are supported for integration with RHOAR Spring Boot in production environments see the Supported Spring Boot configurations and integrations.
- For a list of RHOAR Spring Boot 1.5.x runtime artifacts and their versions see the Spring Boot 1.5.19.RELEASE component details page.
CHAPTER 3. FEATURES

3.1. NEW AND CHANGED FEATURES

No new notable features are introduced in this release.

3.2. DEPRECATED FEATURES

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

3.3. TECHNOLOGY PREVIEW

Deploying Spring Boot applications on Red Hat JBoss Fuse

As a Technology Preview feature, RHOAR allows you to build and deploy Spring Boot applications packaged as JAR files on Red Hat JBoss Fuse, both in stand-alone mode and on OpenShift. For additional information, see Red Hat JBoss Fuse documentation.

Building and Deploying Spring Boot Application WAR Files

The Spring Boot plugin allows you to deploy your Spring Boot Applications as WAR files. This feature is not supported for use in production environments.
CHAPTER 4. RELEASE COMPONENTS

4.1. SUPPORTED ARTIFACTS INTRODUCED IN THIS RELEASE

No new supported artifacts are introduced in this release.

4.2. TECHNOLOGY PREVIEW ARTIFACTS INTRODUCED IN THIS RELEASE

No Technology Preview artifacts are introduced in this release.

4.3. ARTIFACTS REMOVED IN THIS RELEASE

No supported artifacts are removed in this release.

4.4. ARTIFACTS DEPRECATED IN THIS RELEASE

No artifacts are marked as deprecated in this release.
CHAPTER 5. FIXED ISSUES

This RHOAR Spring Boot release incorporates all bugfixes from the upstream release. Issues resolved in the community release are listed in the Spring Boot 1.5 Release Notes.

The following issue has been resolved as part of the RHOAR Spring Boot 1.5.19 product release:


Security fixes

- CVE-2018-8034
- CVE-2018-11784
CHAPTER 6. KNOWN SPRING BOOT ISSUES

6.1. KNOWN ISSUES

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

- **SB-1413**: Sources of the `rx-java-2.2.4-redhat-00003` artifact missing from the Spring Boot 1.5.19.RELEASE release.
CHAPTER 7. KNOWN ISSUES AFFECTING REQUIRED INFRASTRUCTURE COMPONENTS

- **Fabric8 Maven Plugin Issue #1640**: Pushing an image into a custom repository during an s2i build with FMP 4.1.0 results in a `DuplicateKeyException`.

Affected components and component versions

This issue affects Fabric8 Maven Plugin 4.1.0.

Description

Fabric8 Maven Plugin does not process `ImageConfiguration` unless `ImageConfiguration` also contains a `BuildImageConfiguration`. Without a recognizable `BuildImageConfiguration`, Fabric8 Maven Plugin repeatedly calls the s2i image generators to create another default `ImageConfiguration` that contains the expected `BuildImageConfiguration`. This results in more than one `ImageConfiguration` being specified for the given s2i build, which in turn results in a `DuplicateKeyException` when FMP attempts to push the image to the registry specified in the `pom.xml` configuration file. This leads to image build failures when a new image build is triggered by a change in the deployment configuration of a pod on OpenShift.

Workaround

To prevent Fabric8 Maven Plugin from generating a duplicate `ImageConfiguration`, place the image configuration inside a `build` section in the `pom.xml` configuration file of your project, as shown in the examples below. This in turn prevents the `DuplicateKeyException` when new image build is triggered by a change in the deployment configuration of the pod.

```
<configuration>
    <images>
      <image>
        <name>
          artifactrepository.somecompany.com:18444/demo-boot/demo-boot:1.0
        </name>
        <build>
          <from>
            fabric8/S2I_BASE_IMAGE_NAME
          </from>
          <assembly>
            <basedir>
              /deployments
            </basedir>
            <descriptorRef>
              artifact-with-dependencies
            </descriptorRef>
          </assembly>
          <env>
            <JAVA_LIB_DIR>
              /deployments
            </JAVA_LIB_DIR>
            <JAVA_MAIN_CLASS>
              org.example.class.name.Main
            </JAVA_MAIN_CLASS>
          </env>
        </build>
      </image>
    </images>
</configuration>
```
CHAPTER 7. KNOWN ISSUES AFFECTING REQUIRED INFRASTRUCTURE COMPONENTS

</images>
...
</configuration>
CHAPTER 8. ADVISORIES RELATED TO THIS RELEASE

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

- RHBA-2019:0712
- RHBA-2019:1380