



# Red Hat support for Spring Boot 2.7

## Migrating applications to Spring Boot 2.7

For use with Spring Boot 2.7.18



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## Abstract

The Migrating applications to Spring Boot 2.7 document contains information related to migrating older Spring Boot applications to Spring Boot 2.7.18.

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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.

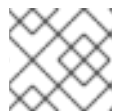
## Prerequisites

- 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

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# CHAPTER 1. MIGRATING SPRING BOOT 2.5 APPLICATIONS TO SPRING BOOT 2.7.18

The Spring Boot BOM (Bill of Materials) that manages dependencies for Red Hat-supported components is not available from Red Hat support for Spring Boot 2.7 onward. To migrate applications that use the Spring Boot BOM for dependency management, you can remove the BOM from your application's **pom.xml** file and then add the required dependencies with their versions in the **pom.xml** file.

The following procedure shows you how to update some of the commonly used dependencies for Red Hat components. For a complete list of dependencies, see the [Supported Spring Boot configurations and integrations](#).

## Prerequisites

- You have a working Spring Boot application that uses the Spring Boot BOM.

## Procedure

- Remove the Spring Boot BOM from the **pom.xml** file in your application.
  - If you use the BOM as a dependency in the **<dependencyManagement>** section of the **pom.xml** file, remove the following lines from the file:

```
<project>
...
<dependencyManagement>
  <dependencies>
    <dependency>
      <groupId>io.dekorate</groupId>
      <artifactId>dekorate-spring-bom</artifactId>
      <version>${dekorate.version}</version>
      <type>pom</type>
      <scope>import</scope>
    </dependency>
    <dependency>
    <dependency>
      <groupId>dev.snowdrop</groupId>
      <artifactId>snowdrop-dependencies</artifactId>
      <version>{version-spring-boot-bom}</version>
      <type>pom</type>
      <scope>import</scope>
    </dependency>
  </dependencies>
</dependencyManagement>
...
</project>
```

- If you use the BOM as a parent BOM, remove the following lines from the file:

```
<project>
...
<parent>
  <groupId>dev.snowdrop</groupId>
```



```

    <artifactId>snowdrop-dependencies</artifactId>
    <version>{version-spring-boot-bom}</version>
  </parent>
  ...
</project>

```

2. Add management dependencies for Spring Boot and Dekorater. You can find the latest supported versions for the dependencies in [Red Hat Runtimes: Component Details Overview](#) .

```

<dependencyManagement>
  ...
  <dependency>
    <groupId>io.dekorate</groupId>
    <artifactId>dekorate-spring-bom</artifactId>
    <version>${dekorate.version}</version>
    <type>pom</type>
    <scope>import</scope>
  </dependency>
  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-dependencies</artifactId>
      <version>${spring-boot.version}</version>
      <type>pom</type>
      <scope>import</scope>
    </dependency>
  </dependencies>
  ...
</dependencyManagement>

```

3. Add versions in the Red Hat-supported components included as dependencies. You can find the latest supported versions for the dependencies in [Red Hat Runtimes: Component Details Overview](#).

```

<dependencies>
  ...
  <!-- Dekorater -->
  <dependency>
    <groupId>io.dekorate</groupId>
    <artifactId>openshift-spring-starter</artifactId>
    <version>${dekorate.version}</version>
  </dependency>

  <!-- Hibernate -->
  <dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-core</artifactId>
    <version>${hibernate.version}</version>
    <exclusions>
      <exclusion>
        <groupId>org.apache.geronimo.specs</groupId>
        <artifactId>geronimo-jta_1.1_spec</artifactId>
      </exclusion>
    </exclusions>
  </dependency>

```

```
<!-- Hibernate Validator-->
<dependency>
  <groupId>org.hibernate.validator</groupId>
  <artifactId>hibernate-validator</artifactId>
  <version>${hibernate-validator.version}</version>
</dependency>

<!-- Narayana -->
<dependency>
  <groupId>org.jboss.narayana.jta</groupId>
  <artifactId>narayana-jta</artifactId>
  <version>${narayana.version}</version>
</dependency>
<dependency>
  <groupId>org.jboss.narayana.jts</groupId>
  <artifactId>narayana-jts-integration</artifactId>
  <version>${narayana.version}</version>
</dependency>

<!-- RestEasy -->
<dependency>
  <groupId>org.jboss.resteasy</groupId>
  <artifactId>resteasy-spring-boot-starter</artifactId>
  <version>${resteasy-spring-boot-starter.version}</version>
</dependency>

<!-- Tomcat -->
<dependency>
  <groupId>org.apache.tomcat.embed</groupId>
  <artifactId>tomcat-embed-core</artifactId>
  <version>${tomcat.version}</version>
</dependency>
<dependency>
  <groupId>org.apache.tomcat.embed</groupId>
  <artifactId>tomcat-embed-el</artifactId>
  <version>${tomcat.version}</version>
</dependency>
<dependency>
  <groupId>org.apache.tomcat.embed</groupId>
  <artifactId>tomcat-embed-jasper</artifactId>
  <version>${tomcat.version}</version>
</dependency>
<dependency>
  <groupId>org.apache.tomcat.embed</groupId>
  <artifactId>tomcat-embed-websocket</artifactId>
  <version>${tomcat.version}</version>
</dependency>
<dependency>
  <groupId>org.apache.tomcat</groupId>org.apache.tomcat
  <artifactId>tomcat-jdbc</artifactId>
  <version>${tomcat.version}</version>
</dependency>

<!-- Undertow -->
<dependency>
```

```
<groupId>io.undertow</groupId>  
<artifactId>undertow-core</artifactId>  
<version>${undertow.version}</version>  
</dependency>
```

```
...  
</dependencies>
```

4. Remove the following **hibernate-core** exclusions from the **spring-boot-starter-data-jpa** groupId, artifactId, version (GAV) if it is present:

```
<exclusion>  
  <groupId>org.hibernate</groupId>  
  <artifactId>hibernate-core</artifactId>  
</exclusion>
```

5. If you use the **org.springframework.boot:spring-boot-maven-plugin**, add the Spring Boot version to the plugin.

```
<plugin>  
  <groupId>org.springframework.boot</groupId>  
  <artifactId>spring-boot-maven-plugin</artifactId>  
  <version>${spring-boot.version}</version>  
  ...  
</plugin>
```

After you update the dependencies, you can build and launch your Spring Boot application. For more information, see [Dekorate Guide for Spring Boot Developers](#).

### Additional resources

- [Dekorate Guide for Spring Boot Developers](#)