



Red Hat build of OpenJDK 17

Packaging Red Hat build of OpenJDK 17
applications in containers

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Abstract

Red Hat build of OpenJDK is a Red Hat offering on the Red Hat Enterprise Linux platform. The Packaging Red Hat build of OpenJDK 17 applications in containers guide provides an overview of this product and explains how to package the applications in a container.

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MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see [our CTO Chris Wright's message](#).

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. RED HAT BUILD OF OPENJDK APPLICATIONS IN CONTAINERS

Red Hat build of OpenJDK images have default startup scripts that automatically detect application **JAR** files and launch Java. The script's behavior can be customized using environment variables. For more information, see **/help.md** in the container.

The Java applications in the **/deployments** directory of the OpenJDK image are run when the image loads.



NOTE

Containers that contain Red Hat build of OpenJDK applications are not automatically updated with security updates. Ensure that you update these images at least once every three months.

Application **JAR** files can be fat JARs or thin JARs.

- Fat JARs contain all of the application's dependencies.
- Thin JARs reference other JARs that contain some, or all, of the application's dependencies. Thin JARs are only supported if:
 - They have a flat classpath.
 - All dependencies are JARs that are in the **/deployments** directory.

CHAPTER 2. DEPLOYING RED HAT BUILD OF OPENJDK APPLICATION IN CONTAINERS

You can deploy Red Hat build of OpenJDK applications in containers and have them run when the container is loaded.

Procedure

- Copy the application **JAR** to the **/deployments** directory in the image **JAR** file.
For example, the following shows a brief Dockerfile that adds an application called **testubi.jar** to the Red Hat build of OpenJDK 17 UBI8 image:

```
FROM registry.access.redhat.com/ubi8/openjdk-17
```

```
COPY target/testubi.jar /deployments/testubi.jar
```

CHAPTER 3. UPDATING RED HAT BUILD OF OPENJDK CONTAINER IMAGES

To ensure that an Red Hat build of OpenJDK container with Java applications includes the latest security updates, rebuild the container.

Procedure

1. Pull the base Red Hat build of OpenJDK image.
2. Deploy the Red Hat build of OpenJDK application. For more information, see [Deploying Red Hat build of OpenJDK applications in containers](#).
The Red Hat build of OpenJDK container with the Red Hat build of OpenJDK application is updated.

Additional resources

- For more information, see [Red Hat OpenJDK Container images](#) .

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