



Red Hat JBoss Developer Studio 10.2 Installation Guide

Installing Red Hat JBoss Developer Studio

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Abstract

Information for users installing Red Hat JBoss Developer Studio. This guide describes all prerequisites for a successful installation of the product followed by a number of installation methods, including how to use your existing installation of Eclipse.

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CHAPTER 1. INTRODUCING JBOSS DEVELOPER STUDIO INSTALLATION OPTIONS

JBoss Developer Studio can be installed in a variety of ways. Depending on your circumstance, use one of the following installation methods:

- ✧ [Chapter 3, *Installing JBoss Developer Studio in Eclipse*](#)
 - [Section 3.1, “Installing JBoss Developer Studio in Eclipse when Online”](#)
 - [Section 3.2, “Installing JBoss Developer Studio in Eclipse when Offline”](#)
- ✧ [Chapter 4, *Installing JBoss Developer Studio Using the Installer*](#)
 - [Section 4.1, “Installing JBoss Developer Studio Stand-alone”](#)
 - [Section 4.2, “Installing JBoss Developer Studio and Red Hat JBoss EAP”](#)
- ✧ [Chapter 5, *Installing JBoss Developer Studio through Red Hat Development Suite*](#)
- ✧ [Chapter 6, *Installing JBoss Developer Studio Using RPM*](#)
- ✧ [Chapter 7, *Performing Advanced Installation Tasks*](#)
 - [Section 7.1, “Installing JBoss Developer Studio Using a Script”](#)
 - [Section 7.2, “Building the JBoss Developer Studio Stand-alone Installer from Source”](#)

CHAPTER 2. UNDERSTANDING JBOSS DEVELOPER STUDIO INSTALLATION PREREQUISITES

2.1. HARDWARE AND SOFTWARE REQUIREMENTS

JBoss Developer Studio 10.2 is supported for use with a range of operating system, architecture, and Java developer kit combinations; for a complete list, see <https://access.redhat.com/articles/427493> on the Red Hat Customer Portal.

Following are the prerequisites for installing JBoss Developer Studio:

1. Minimum hardware requirements:
 - a. 4 GB RAM (minimum 2 GB RAM)
 - b. 2 GB hard disk space
2. Software requirements:
 - a. [Install JDK 8](#) (Red Hat OpenJDK is recommended)

2.2. INSTALLING OPENJDK 8

Unless you already have Java 8 installed on your system, use the OpenJDK distribution provided by Red Hat. This section describes how to install OpenJDK by Red Hat on Microsoft Windows and Red Hat Enterprise Linux.

2.2.1. Installing OpenJDK on Microsoft Windows

To install OpenJDK 1.8.0 on Windows using the MSI-based installer:

1. Download the MSI-based installer from:
<http://developers.redhat.com/products/openjdk/overview/>.
2. Run the installer and follow the on-screen instructions to install.
3. To configure JBoss Developer Studio to use OpenJDK, follow the instructions at [Working with JREs](#).

2.2.2. Installing OpenJDK on Red Hat Enterprise Linux

To install OpenJDK 1.8.0 on Red Hat Enterprise Linux:

**Note**

All the commands in the following procedure must be run as the **root** user.

1. Register and subscribe the system by running the following command:

```
# subscription-manager register
```

2. When prompted, enter your Red Hat Customer Portal user name and password.
3. To find a suitable subscription, such as Developer Subscription, run the following command:

```
# subscription-manager list --available
```

This command lists the available subscriptions and details of the subscriptions. Note down the pool ID of the appropriate subscription.

4. To attach a subscription to your system, run the following command:

```
# subscription-manager attach --pool=<pool id from previous  
command>
```

5. To install OpenJDK RPMs:

```
# yum install java-1.8.0-openjdk-devel
```



Note

Install the **java-1.8.0-openjdk-demo** package for examples of Java applications and the **java-1.8.0-openjdk-src** package to debug your applications. Both packages are available from the *Optional* repository. Use the following command to enable that repository on your system:

```
# subscription-manager repos --enable=rhel-7-server-optional-  
rpms
```

Substitute the version number in the above command with **6** if you use Red Hat Enterprise Linux 6.

Use the following command to install the packages:

```
# yum install java-1.8.0-openjdk-src java-1.8.0-openjdk-demo
```

CHAPTER 3. INSTALLING JBOSS DEVELOPER STUDIO IN ECLIPSE

JBoss Developer Studio for Eclipse packages the JBoss Developer Studio plug-ins for your existing Eclipse instance. You can either install JBoss Developer Studio from the Eclipse Marketplace when you are online or use the **Update Site Zip** to install it when you are offline.

3.1. INSTALLING JBOSS DEVELOPER STUDIO IN ECLIPSE WHEN ONLINE

JBoss Developer Studio is available to install from Eclipse Marketplace when you are online.

To install JBoss Developer Studio BYOE from Eclipse Marketplace:

1. Start Eclipse Neon.
2. Click **Help** → **Eclipse Marketplace**, locate **Red Hat JBoss Developer Studio 10.2 GA**, and click **Install**.
3. Follow the on-screen instructions to complete the installation process.

During the installation process, if you receive warnings about installing unsigned content, review the details of the content and if satisfied, click **OK** to continue with the installation.

Once installation is complete, you are prompted to restart Eclipse. Click **Yes** to restart immediately and **No** if you need to save any unsaved changes to open projects. Note that IDE changes do not take effect until Eclipse is restarted.

3.2. INSTALLING JBOSS DEVELOPER STUDIO IN ECLIPSE WHEN OFFLINE

You need the **Update Site Zip** to install JBoss Developer Studio in Eclipse in the offline mode. Alternatively, you can also use an installer downloaded on your system instead of the **Update Site Zip** to install JBoss Developer Studio in Eclipse when Offline.



Important

You must first be online to download the *.zip* file before proceeding to install JBoss Developer Studio in Eclipse in the offline mode.

To install JBoss Developer Studio in Eclipse in offline mode:

1. Download the **Red Hat JBoss Developer Studio 10.2 Update Site Zip** from <https://devstudio.redhat.com/10.0/stable/updates/>.
2. Start Eclipse Neon.
3. Click **Help** → **Install New Software**.
4. In the **Work with** field, enter the path of the **Update Site Zip** file. Alternatively, click **Add** and click **Archive** to locate the file.

5. From the table of components, select **Red Hat JBoss Developer Studio 10 - Bring Your Own Eclipse** and click **Next**.
6. Follow the on-screen instructions to complete the installation process.

During the installation process, you may receive warnings about installing unsigned content. If this is the case, review the details of the content and if satisfied, click **OK** to continue with the installation.

Once the installation is complete, you are prompted to restart Eclipse. Click **Yes** to restart immediately and **No** to save any unsaved changes to open projects. Note that the IDE changes do not take effect until Eclipse is restarted.

CHAPTER 4. INSTALLING JBOSS DEVELOPER STUDIO USING THE INSTALLER

JBoss Developer Studio stand-alone packages the JBoss Developer Studio plug-ins with Eclipse and dependent third-party plug-ins in an installer for all operating systems.

4.1. INSTALLING JBOSS DEVELOPER STUDIO STAND-ALONE

The installer provided to install JBoss Developer Studio stand-alone is available from a variety of sources, including the Red Hat Customer Portal.

To install JBoss Developer Studio stand-alone:

1. Download **Red Hat JBoss Developer Studio 10.2 Stand-alone Installer** from [JBoss Developer Studio Software Downloads](#).
2. Start the installer:

```
$ cd /path/to/.jar
$ java -jar devstudio-10.2.0.GA-installer-standalone.jar
```

Alternatively, you can start the installer by double-clicking the `.jar` file. On OS X systems, hold control and click the `.jar` file, click **Open**, review the `.jar` file details and if satisfied, click **Open**.

3. Follow the on-screen instructions to complete the installation process.

4.2. INSTALLING JBOSS DEVELOPER STUDIO AND RED HAT JBOSS EAP

A single installer is provided for both JBoss Developer Studio stand-alone and Red Hat JBoss Enterprise Application Platform (JBoss EAP). A specific JBoss EAP version is packaged in the installer. For details of the JBoss EAP version, see <https://access.redhat.com/articles/427493>. This installer is available from a variety of sources, including the Red Hat Customer Portal.

To install JBoss Developer Studio stand-alone and JBoss EAP:

1. Download **Red Hat JBoss Developer Studio 10.2 Installer with EAP** from [JBoss Developer Studio Software Downloads](#).
2. Start the installer:

```
$ cd /path/to/.jar
$ java -jar devstudio-10.2.0.GA-installer-eap.jar
```

Alternatively, you can start the installer by double-clicking the `.jar` file. On OS X systems, hold control and click the `.jar` file, click **Open**, review the `.jar` file details and if satisfied, click **Open**.

3. In the **Introduction Step 1 of 9** window, read the information about the installer and click **Next**.

4. In the **End User License Agreement Step 2 of 9** window, read the agreement and click **I accept the terms of this license agreement** and click **Next**.
5. In the **Select Target Folder Step 3 of 9** window, click **Browse**, select the installation path, and click **Next**.
6. In the **Warning** dialog box, click **Yes**
7. In the **Select Java VM Step 4 of 9** window, **Default Java VM** is selected by default. Ensure that the disabled text field contains the path of the Java developer kit you want to use. This is based on the default Java developer kit of your system. To change the specified Java developer kit, click **Specific Java VM** and click **Browse** to locate the Java developer kit. When the text field shows the correct Java developer kit path, click **Next**.
8. In the **Select Platforms and Servers Step 5 of 9** window, **Yes, and have it ready for use in Red Hat JBoss Developer Studio** is selected by default. Alternatively, to add a location:
 - a. Click **Add** to add locations that you want to be scanned recursively to locate platforms and servers.
 - b. In the **Add Location** window, click **Browse** to select the location path.
 - c. Click the **Scan every start** check box to scan the specified path for new application servers each time JBoss Developer Studio starts.
 - d. Click **OK**.
 - e. In the **Select Platforms and Servers Step 5 of 9** window, click **Next**.
9. In the **Summary Information Step 6 of 9** window, review the installation details and click **Next**.
10. The **Installation Step 7 of 9** window shows the progress of the installation. When the **Pack installation progress** bar shows **Finished**, click **Next**.
11. In the **Setup Shortcuts Step 8 of 9** window, click the relevant check box to create shortcuts and click **Next**.
12. In the **Finish Step 9 of 9** window, the **Run Red Hat JBoss Developer Studio after installation** check box is selected by default. Click **Done**.
13. In the **Eclipse Launcher** window, **Workspace** field, click **Browse** to select the directory where JBoss Developer Studio will store its preferences and development artifacts. Click **OK**.
14. In the **Red Hat JBoss Developer Studio Usage** window, click **Yes** to allow Red Hat Inc. to receive usage statistics for the installed JBoss Developer Studio instance or click **No**, as required.

This additional installer option installs JBoss EAP in a subdirectory of the JBoss Developer Studio installation and generates a complete default server definition within the IDE with which to manage the JBoss EAP instance and deployed applications.

CHAPTER 5. INSTALLING JBOSS DEVELOPER STUDIO THROUGH RED HAT DEVELOPMENT SUITE

You can install JBoss Developer Studio as part of Red Hat Development Suite on 64-bit Microsoft Windows and macOS.



Note

The macOS Installer is released as Technology Preview in Red Hat Development Suite Development Suite. For information on support for features released as Technology Preview, see [Technology Preview Features Support Scope](#).

The Red Hat Development Suite Installer installs the following components:

- ✦ OpenJDK
- ✦ Red Hat JBoss Developer Studio
- ✦ Cygwin
- ✦ Red Hat Container Development Kit
- ✦ Vagrant
- ✦ VirtualBox

For details of the components installed through Red Hat Development Suite, see [Component Details](#) in the *Red Hat Development Suite Installation Guide*.

For instructions on installing Red Hat Development Suite, see the [Red Hat Development Suite Installation Guide](#).

CHAPTER 6. INSTALLING JBOSS DEVELOPER STUDIO USING RPM

On Red Hat Enterprise Linux 7.2 and higher, JBoss Developer Studio can be installed using the standard package management system. RPM packages that use the Software Collections format are provided in the **rh-eclipse46-devstudio-stable-10.x** repository. This section explains how to enable that repository and install JBoss Developer Studio from RPM packages.



Note

Note that the RPM package method for installing JBoss Developer Studio is being released as a Technology Preview for this JBoss Developer Studio 10.2 release. For information on support for features released as Technology Preview, see [Technology Preview Features Support Scope](#).



Important

If you install JBoss Developer Studio using this method, in addition to the following plugins, any third-party components installed through the **Help** → **Install New Software** menu, may corrupt your JBoss Developer Studio instance, and you may be unable to restart JBoss Developer Studio to uninstall them.

1. From JBoss Developer Studio Integration Stack
 - a. JBoss Fuse & JBoss Fuse Service Works (SwitchYard 2.2.0)
 - b. JBoss Data Virtualization (Teiid Designer 10.0)
2. From third-party vendors:
 - a. Spring IDE up to 3.8.2
 - b. ZeroTurnaround JRebel 7.0.0
 - c. Atlassian connector for Eclipse 3.2.5.I20150617-0100

To uninstall these plugins, you must delete the `~/eclipse` directory and then restart JBoss Developer Studio. However, you will have to reinstall any third-party features or plugins that you had installed earlier through an update site or the Eclipse Marketplace. For any third-party plugins to work, install JBoss Developer Studio using either the **Red Hat JBoss Developer Studio 10.2 Stand-alone Installer** file or the **Red Hat JBoss Developer Studio 10.2 Installer with EAP** file.

Prerequisites

- ✦ Register your Red Hat Enterprise Linux system. For instructions on registering your system, see [How to register and subscribe a system to the Red Hat Customer Portal using Red Hat Subscription-Manager](#).
- ✦ Enable the **rhel-server-rhsc1-7-rpms** repository. For instructions on enabling the repository, see [Getting Access to Red Hat Software Collections](#).

To install JBoss Developer Studio using the RPM package:

1. As **root**, create the `/etc/yum.repos.d/rh-eclipse46-devstudio-stable-10_x.repo` file, and then add the following content to it:

```
[rh-eclipse46-devstudio-stable-10.x]
name=rh-eclipse46-devstudio-stable-10.x
baseurl=https://devstudio.redhat.com/static/10.0/stable/rpms/x86_64/
/
enabled=1
gpgcheck=1
upgrade_requirements_on_install=1
metadata_expire=24h
```

2. Run the following command to install product signing (GPG) key:

```
# rpm --import
"https://www.redhat.com/security/data/a5787476.txt"
```



Note

For a list of GPG keys used to automatically verify Red Hat software updates, see <https://access.redhat.com/security/team/key>.

3. Run the following command to install JBoss Developer Studio and all the dependencies:

```
# yum install rh-eclipse46-devstudio
```


CHAPTER 7. PERFORMING ADVANCED INSTALLATION TASKS

This section describes how to install JBoss Developer Studio using a script and how to build the JBoss Developer Studio installer from source code.

7.1. INSTALLING JBOSS DEVELOPER STUDIO USING A SCRIPT

Use the scripted method to install JBoss Developer Studio stand-alone using the GUI once and then a generated script for subsequent installations. This installation method enables simplified repeat installations or installations in bulk without stepping through the installer GUI for every installation.

The JBoss Developer Studio stand-alone installer is available from a variety of sources, including the Red Hat Customer Portal.

To install JBoss Developer Studio by script:

1. Download **Red Hat JBoss Developer Studio 10.2 Stand-alone Installer** from [JBoss Developer Studio Software Downloads](#).
2. Start the installer:

```
$ cd /path/to/.jar
$ java -jar devstudio-10.2.0.GA-installer-standalone.jar
```

3. Follow the on-screen instructions to complete the installation process. After the installation is complete, an **InstallConfigRecord.xml** file is generated in the JBoss Developer Studio installation directory.
4. In the terminal window, enter the following command:

```
$ java -jar devstudio-10.2.0.GA-installer-standalone.jar \
/path/to/devstudio/InstallConfigRecord.xml
```

Note

The generated **InstallConfigRecord.xml** file is machine-specific and uses the Java Developer Kit and installation paths of your system. To use the **InstallConfigRecord.xml** file for other operating systems, Java Developer Kits, or paths, you must manually modify the file.

7.2. BUILDING THE JBOSS DEVELOPER STUDIO STAND-ALONE INSTALLER FROM SOURCE

Prerequisite

- ✦ Maven 3.2 or later, with Java 8 must be installed to build the installer from the source code. To obtain and configure Maven, see <http://maven.apache.org/>.

To build the JBoss Developer Studio stand-alone installer from source:

1. Clone the git repository by running the command:

```
$ git clone https://github.com/jbdevstudio/jbdevstudio-product.git
```

2. Build the installer by following the instructions in the **jbdevstudio-product/README.adoc** file.



Note

The **jbdevstudio-product/README.adoc** file is located in the extracted current folder at the highest level.

Building takes some time to complete, after which the **devstudio-[version]-installer-standalone.jar** file will be located in the **/path/to/jbdevstudio-product/installer/target** directory.

CHAPTER 8. UPGRADING JBOSS DEVELOPER STUDIO

This section describes how to upgrade to newer versions of JBoss Developer Studio.

8.1. UPGRADING MAJOR VERSIONS OF JBOSS DEVELOPER STUDIO

Each major version of JBoss Developer Studio is based on a different version of Eclipse. As a result, it is not possible to update an older major version of JBoss Developer Studio to a newer major version. For example, it is not possible to update a devstudio 8.x installation to 9.x, nor is it possible to update a 9.x installation to 10.x. However, it is possible to use the workspaces created using JBoss Developer Studio 9.x with JBoss Developer Studio 10.x.

The following table details the version of Eclipse supported with each major version of JBoss Developer Studio:

Table 8.1. Eclipse Version Support Matrix

JBoss Developer Studio Version	Base Eclipse Version
JBoss Developer Studio 10.x	Eclipse Neon (4.6)
JBoss Developer Studio 9.x	Eclipse Mars (4.5)
JBoss Developer Studio 8.x	Eclipse Luna (4.4)
JBoss Developer Studio 7.x	Eclipse Kepler (4.3)
JBoss Developer Studio 6.x	Eclipse Juno (4.2)

8.2. UPDATING MINOR VERSIONS OF JBOSS DEVELOPER STUDIO

You can update your JBoss Developer Studio to the latest minor versions within the major release. For example, you can update your JBoss Developer Studio 10.0 installation to 10.1.



Important

Before updating, back up your workspace. In addition to your project files, your workspace contains metadata about customized settings and preferences for the IDE. To back up your workspace, either copy the workspace directory to a backup location, or save it as a compressed file.

You may be automatically notified by the IDE when the JBoss Developer Studio 10.y update is available, depending on your IDE settings for automatic updates.

**Note**

If you have installed JBoss Developer Studio using the RPM package, you must update using your package manager (example: yum update) and not look for automatic updates.

Alternatively, use the following instructions to manually check for and apply the most recent JBoss Developer Studio update:

1. In the IDE, click **Window > Preferences**, expand **Install/Update** and click **Available Software Sites**.
2. In the **Available Software Sites** table, ensure the URL <https://devstudio.redhat.com/10.0/stable/updates/> is listed or, if not listed, add it.
3. Close the **Preferences** window.
4. Click **Help > Check for Updates**.
5. For any JBoss Developer Studio updates found, follow the on-screen instructions to apply the update.

During the update process, you may receive warnings about installing unsigned content. If this is the case, review the details of the content and if satisfied click **OK** to continue with the update.

Once updating is complete, you are prompted to restart the IDE. Click **Yes** to restart immediately or **No** to save any unsaved changes to open projects. Note that IDE changes do not take effect until the IDE is restarted.

CHAPTER 9. REPORTING ISSUES FROM WITHIN JBOSS DEVELOPER STUDIO

Red Hat JBoss Developer Studio and JBoss Tools allow users to report issues from within the IDE as they are encountered. It is recommended that users report issues frequently and include as much detail as possible to help the development and testing teams replicate and fix the issue. The **Report Problem** wizard creates a zip file containing the relevant IDE log files. This zip file can be attached to the JIRAs submitted against each problem to provide context for the issue.

1. Click **Help** and then click **Report Problem**.
2. The **Log file name** field contains the zipped log files as a default. Click **Browse** to select a different log file to attach to the JIRA.
3. In the **Problem Description** field, outline details about the problem, such as:
 - » What you wanted to do with JBoss Developer Studio.
 - » What steps you followed to arrive at the problem or error message.
 - » Any other noteworthy information about the environment or any unsupported add-ons or plug-ins in use.
4. Optionally, in the **E-Mail** field, add your e-mail address to be potentially contacted in the future about the issue.
5. Click **OK** to submit the problem report.

You can also enable error reporting from: **Preferences** → **General** → **Error Reporting**. If enabled, when you encounter a plugin related error, a pop-up notification describing the error will appear. The user can either dismiss or send the error directly, or provide more details about the error. You can optionally provide your e-mail ID to be contacted for more details on the error.