



Red Hat JBoss Developer Studio 11.3

Installation Guide

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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 4, *Installing JBoss Developer Studio in Eclipse*](#)
 - [Section 4.1, “Installing JBoss Developer Studio in Eclipse when Online”](#)
 - [Section 4.2, “Installing JBoss Developer Studio in Eclipse when Offline”](#)
- [Chapter 5, *Installing JBoss Developer Studio Stand-alone Using the Installer*](#)
- [Chapter 6, *Installing JBoss Developer Studio through Red Hat Development Suite*](#)
- [Chapter 7, *Installing JBoss Developer Studio Using RPM*](#)
- [Chapter 8, *Performing Advanced Installation Tasks*](#)
 - [Section 8.1, “Installing Red Hat JBoss Developer Studio Using a Script”](#)
 - [Section 8.2, “Building the Red Hat 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 11.3 is supported for use with a range of operating systems, architecture, and Java developer kit combinations; for a complete list, see https://access.redhat.com/documentation/en-us/red_hat_jboss_developer_studio/11.3/html/supported_configurations_and_components/ 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.

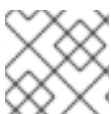
2.2.1. Installing OpenJDK on Microsoft Windows

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 username 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. SHARED INSTALLATION OF JBoss DEVELOPER STUDIO

For installation of JBoss Developer Studio on Red Hat Enterprise Linux:

- If you install JBoss Developer Studio using RPM on Red Hat Enterprise Linux and then install or update any feature (example: install a feature from Red Hat Central), the newly installed feature gets installed in your home directory (`~/.eclipse`).

For installation of JBoss Developer Studio on Windows:

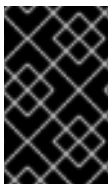
- If you install JBoss Developer Studio on Windows in a folder accessible to all the users (example: `c:\devstudio`), this DevStudio instance can be used by all the users. However, if the main installation folder is not writable by a given user, any newly installed feature and update gets saved inside the user's home directory.

CHAPTER 4. 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.

4.1. INSTALLING JBOSS DEVELOPER STUDIO IN ECLIPSE WHEN ONLINE

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



IMPORTANT

If anytime before or during the installation, you are asked about selecting additional features to install, you may select JBoss Fuse Tooling to use the Fuse tooling features after the installation is complete.

To install JBoss Developer Studio BYOE from Eclipse Marketplace:

1. Start Eclipse Oxygen.
2. Click **Help > Eclipse Marketplace**, locate **Red Hat JBoss Developer Studio 11.3 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.

After the 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 the IDE changes do not take effect until Eclipse is restarted.

4.2. 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. Note that the **Target Platform Zip** contains the features on which DevStudio depends. It also contains the sources of all the included plugins. You can download the **Target Platform Zip** from <https://devstudio.redhat.com/11/stable/updates/>.



IMPORTANT

- You must first be online to download the **.zip** file before proceeding to install JBoss Developer Studio in Eclipse in the offline mode.
- If anytime before or during the installation, you are asked about selecting additional features to install, you may select JBoss Fuse Tooling to use the Fuse tooling features after the installation is complete.

To install JBoss Developer Studio in Eclipse in offline mode:

1. Download the **Red Hat JBoss Developer Studio 11.3 Update Site Zip** from <https://devstudio.redhat.com/11/stable/updates/>.
2. Start Eclipse Oxygen.
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 11 - Bring Your Own Eclipse** and click **Next**.
6. Follow the on-screen instructions to complete the installation process.

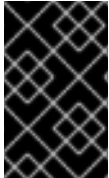
During the installation process, you may receive warnings about installing unsigned content. If this is the case, review the details of the content and if satisfied, click **OK** to continue with the installation.

After 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 5. INSTALLING JBOSS DEVELOPER STUDIO STAND-ALONE 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.

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



IMPORTANT

If anytime before or during the installation, you are asked about selecting additional features to install, you may select JBoss Fuse Tooling to use the Fuse tooling features after the installation is complete.

To install JBoss Developer Studio stand-alone:

1. Download **Red Hat JBoss Developer Studio 11.3 Stand-alone Installer** from [JBoss Developer Studio Software Downloads](#).
2. Start the installer:

```
$ cd /path/to/.jar
$ java -jar devstudio-11.3.0.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.

CHAPTER 6. 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, macOS, and Red Hat Enterprise Linux 7.

The Red Hat Development Suite Installer can install the following components; however, some of them are optional:

- OpenJDK
- Red Hat JBoss Developer Studio
- Cygwin
- Red Hat Container Development Kit
- VirtualBox
- Red Hat JBoss Enterprise Application Platform
- Red Hat JBoss Fuse Tooling

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 7. INSTALLING JBOSS DEVELOPER STUDIO USING RPM

On Red Hat Enterprise Linux 7.4 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 Red Hat Developer Tools repository. This section explains how to enable that repository and install JBoss Developer Studio from RPM packages.

The Red Hat Developer Tools repository includes the following RPMs:

- Eclipse
- Devstudio
- CDK
- Kompose: Kompose is being released as Technology Preview for this Red Hat Developer Tools 1.0 release. For information on support for features released as Technology Preview, see [Technology Preview Features Support Scope](#).

IMPORTANT

Installation of third-party plugins that are not included in Red Hat Central, may corrupt JBoss Developer Studio. If you have installed any plugins in JBoss Developer Studio from an Update Site, including Red Hat Central, we highly recommend starting JBoss Developer Studio by running the following commands:

```
$ scl enable rh-eclipse47 bash
$ cd /opt/rh/rh-eclipse47/root/usr/lib64/eclipse/
$ ./eclipse -clean
```

If an installed plugin corrupts the JBoss Developer Studio instance, the only way to fix this issue is to delete the `~/eclipse` directory and then restart JBoss Developer Studio.

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](#).

7.1. ENABLING THE RED HAT DEVELOPER TOOLS REPOSITORIES

To install JBoss Developer Studio using the RPM package you must first enable the Red Hat Developer Tools repositories.

- Enable the **rhel-7-server-devtools-rpms** repository on Red Hat Enterprise Linux Server or enable the **rhel-7-workstation-devtools-rpms** repository on Red Hat Enterprise Linux Workstation
- Enable the **rhel-server-rhsc1-7-rpms** repository on Red Hat Enterprise Linux Server or enable the **rhel-workstation-rhsc1-7-rpms** repository on Red Hat Enterprise Linux Workstation

**NOTE**

Red Hat Developer Tools is not supported on the **Client** or the **ComputeNode** variant.

To enable the Red Hat Developer Tools repositories:

1. Run the following commands as the root user:

```
# subscription-manager repos --enable rhel-7-server-devtools-rpms
# subscription-manager repos --enable rhel-server-rhsc1-7-rpms
```

**NOTE**

In the above command, depending on the variant of Red Hat Enterprise Linux that you are using, **Server** or **Workstation**, the commands will be:

- For the **Workstation** variant: **subscription-manager repos --enable rhel-7-workstation-devtools-rpms**
- For the **Server** variant: **subscription-manager repos --enable rhel-7-server-devtools-rpms**

For developers, we recommend using Red Hat Enterprise Linux Server for access to the widest range of development tools.

For more information on registering and attaching subscriptions, see [Using and Configuring Red Hat Subscription Management](#).

2. To add the Red Hat Developer Tools key to your system, run the following commands as the root user:

```
# cd /etc/pki/rpm-gpg
# wget -O RPM-GPG-KEY-redhat-devel
  https://www.redhat.com/security/data/a5787476.txt
# rpm --import RPM-GPG-KEY-redhat-devel
```

7.2. INSTALLING RED HAT JBOSS DEVELOPER STUDIO AND ITS DEPENDENCIES

To install JBoss Developer Studio and all the dependencies, run the following command:

```
# yum install rh-eclipse47-devstudio
```


CHAPTER 8. PERFORMING ADVANCED INSTALLATION TASKS

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

8.1. INSTALLING RED HAT JBOSS DEVELOPER STUDIO USING A SCRIPT

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

To install Red Hat JBoss Developer Studio by script:

1. Download **Red Hat JBoss Developer Studio 11.3 Stand-alone Installer** from [JBoss Developer Studio Software Downloads](#).
2. Start the installer:

```
$ cd /path/to/.jar
$ java -jar devstudio-11.3.0.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-11.3.0.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.

8.2. BUILDING THE RED HAT JBOSS DEVELOPER STUDIO STAND-ALONE INSTALLER FROM SOURCE

Prerequisite

- Maven 3.3 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 Red Hat 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. Checkout the **master** branch by running the command:

```
$ git checkout master
```

3. 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 9. UNINSTALLING RED HAT JBOSS DEVELOPER STUDIO

You may want to uninstall a specific version of Red Hat JBoss Developer Studio if you have concluded development in one version, say 10.x, and you now want to install a newer version, say 11.x. However, you can have more than one version of Installer-installed Red Hat JBoss Developer Studio or Eclipse-installed Red Hat JBoss Developer Studio on your system, provided you have these versions located in different directories.



NOTE

You can not have more than one version of RPM-installed Red Hat JBoss Developer Studio on the same system.

There are three ways to uninstall Red Hat JBoss Developer Studio, depending on how you installed it. The following sections describe the three methods:

- [Section 9.1, “Uninstalling Red Hat JBoss Developer Studio Installed Using the Installer”](#)
- [Section 9.2, “Uninstalling Red Hat JBoss Developer Studio Installed in Eclipse”](#)
- [Section 9.3, “Uninstalling Red Hat JBoss Developer Studio Installed Using RPM”](#)

9.1. UNINSTALLING RED HAT JBOSS DEVELOPER STUDIO INSTALLED USING THE INSTALLER

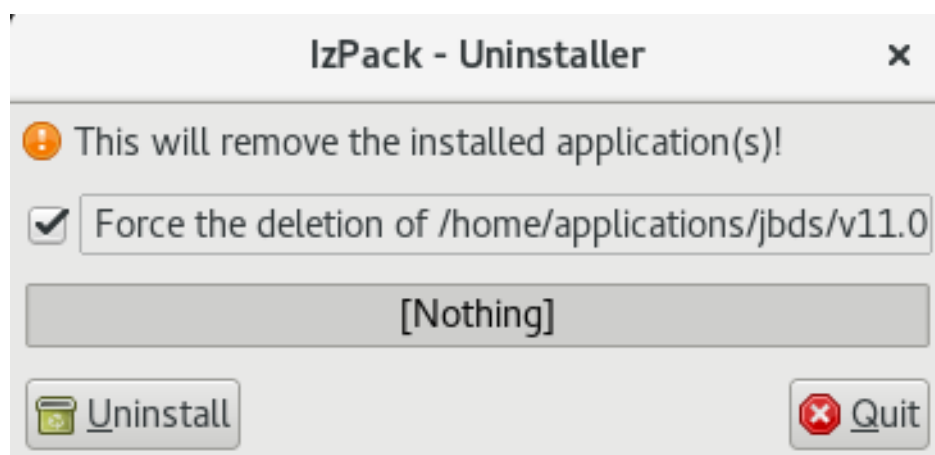
To uninstall Red Hat JBoss Developer Studio:

1. Ensure that Red Hat JBoss Developer Studio is not running.
2. On the command line, navigate to **path/to/JBoss Developer Studio/Uninstaller**.
3. On the command line, type:

```
$ java -jar uninstaller.jar
```

4. In the **IzPack Uninstaller** dialog box:
 - a. Click the **Force the deletion of <path_to_JBoss Developer Studio_directory>** check box, to remove the entire Red Hat JBoss Developer Studio installation directory. If this is not selected, Red Hat JBoss Developer Studio will be uninstalled but some files will be left as is in the installation directory.
 - b. Click **Uninstall**.
5. After the progress bar shows **Finished**, click **Quit** to close the **Uninstaller** dialog box.

Figure 9.1. Uninstall JBoss Developer Studio



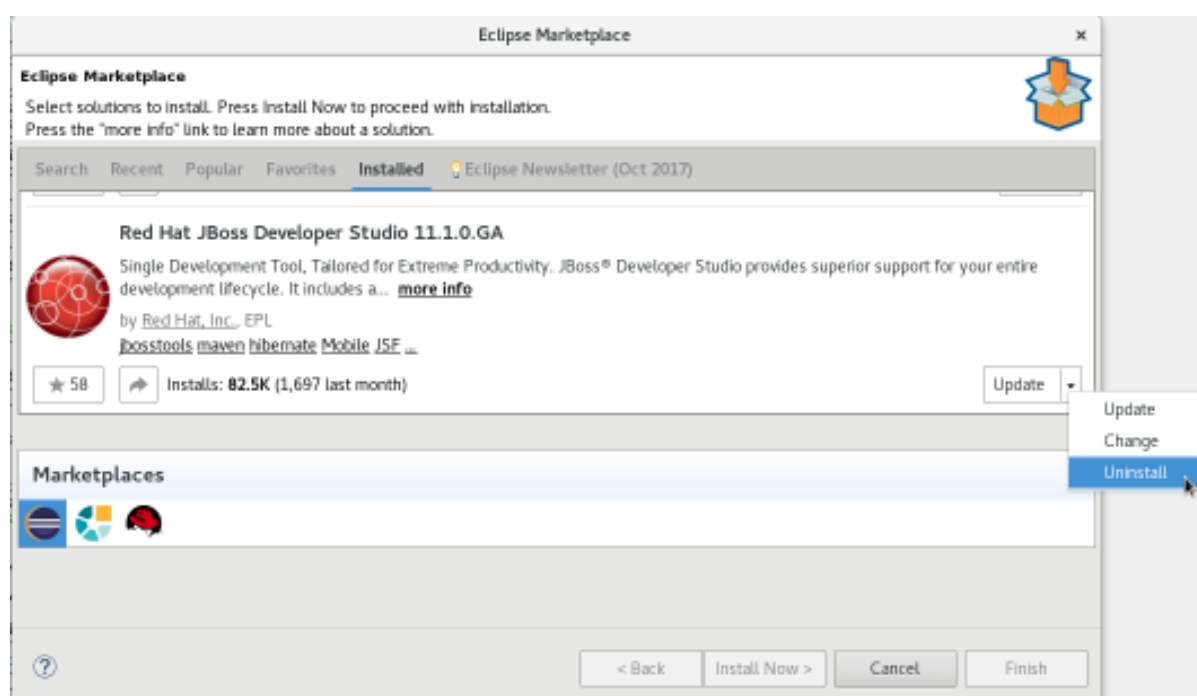
9.2. UNINSTALLING RED HAT JBOSS DEVELOPER STUDIO INSTALLED IN ECLIPSE

Red Hat JBoss Developer Studio can be uninstalled using the following steps regardless of whether it was installed via Eclipse Marketplace or the update .zip file.

To uninstall Red Hat JBoss Developer Studio:

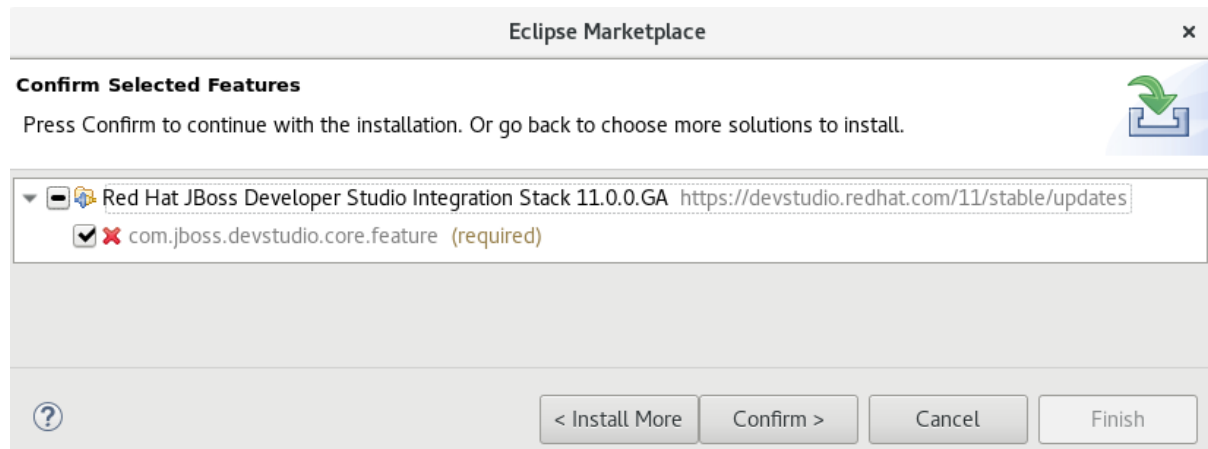
1. Start Eclipse Oxygen.
2. Click **Help > Eclipse Marketplace**.
3. In the **Eclipse Marketplace** window, **Find** field, type *Red Hat JBoss Developer Studio* and then click **Go**.
4. Click **Installed** in the **Red Hat JBoss Developer Studio <version>** section.
5. Click the **Update** drop-down list to view the options available. Click **Uninstall**.

Figure 9.2. Uninstall Button



6. In the **Confirm Selected Features** window, ensure that **Red Hat JBoss Developer Studio <version>** is selected and click **Confirm**.
7. Click **Finish**.

Figure 9.3. Confirm Selected Feature Deletion



8. In the **Software Updates** dialog box, click **Yes** to restart Eclipse for the changes to take effect.

9.3. UNINSTALLING RED HAT JBOSS DEVELOPER STUDIO INSTALLED USING RPM

To uninstall Red Hat JBoss Developer Studio completely, including Eclipse and the included plugins, use the following command:

```
# yum remove rh-eclipse47\*
```

To uninstall only Red Hat JBoss Developer Studio and leave Eclipse and other plugins as is, use the following command:

```
# yum remove rh-eclipse47-devstudio
```

CHAPTER 10. UPGRADING RED HAT JBOSS DEVELOPER STUDIO

Depending on your need, refer to the following sections to upgrade Red Hat JBoss Developer Studio:

- [Section 10.1, “Upgrading Major Versions of Red Hat JBoss Developer Studio”](#)
- [Section 10.2, “Updating Minor Versions of Red Hat JBoss Developer Studio”](#)
- [Section 10.3, “Updating Red Hat JBoss Developer Studio Installed Using RPM”](#)

10.1. UPGRADING MAJOR VERSIONS OF RED HAT JBOSS DEVELOPER STUDIO

Each major version of Red Hat 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 Red Hat JBoss Developer Studio to a newer major version. For example, it is not possible to update a devstudio 9.x installation to 10.x, nor is it possible to update a 10.x installation to 11.x. However, it is possible to use the workspaces created using Red Hat JBoss Developer Studio 10.x with Red Hat JBoss Developer Studio 11.x.

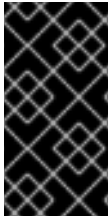
The following table details the version of Eclipse supported with each major version of Red Hat JBoss Developer Studio:

Table 10.1. Eclipse Version Support Matrix

Red Hat JBoss Developer Studio Version	Base Eclipse Version
JBoss Developer Studio 11.x	Eclipse Oxygen (4.7)
Red Hat JBoss Developer Studio 10.x	Eclipse Neon (4.6)
Red Hat JBoss Developer Studio 9.x	Eclipse Mars (4.5)
Red Hat JBoss Developer Studio 8.x	Eclipse Luna (4.4)
Red Hat JBoss Developer Studio 7.x	Eclipse Kepler (4.3)
Red Hat JBoss Developer Studio 6.x	Eclipse Juno (4.2)

10.2. UPDATING MINOR VERSIONS OF RED HAT JBOSS DEVELOPER STUDIO

You can update your Red Hat JBoss Developer Studio to the latest minor versions within the major release. For example, you can update your Red Hat JBoss Developer Studio 11.1 installation to 11.2.



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 Red Hat JBoss Developer Studio 11.y update is available, depending on your IDE settings for automatic updates.

Alternatively, use the following instructions to manually check for and apply the most recent Red Hat 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/11/stable/updates/> is listed or, if not listed, add it.
3. Close the **Preferences** window.
4. Click **Help > Check for Updates**.
5. For any Red Hat 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.

After 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.

10.3. UPDATING RED HAT JBOSS DEVELOPER STUDIO INSTALLED USING RPM

Depending on whether you want to upgrade a major version of Red Hat JBoss Developer Studio or update a minor version of Red Hat JBoss Developer Studio, use one of the following methods:

- [Section 10.3.1, “Upgrading Major Versions of Red Hat JBoss Developer Studio Installed Using RPM”](#)
- [Section 10.3.2, “Updating Minor Versions of Red Hat JBoss Developer Studio Installed Using RPM”](#)

10.3.1. Upgrading Major Versions of Red Hat JBoss Developer Studio Installed Using RPM

If you have installed JBoss Developer Studio 10.x using the RPM package, you can not update to Red Hat JBoss Developer Studio 11.x using the package manager. However, it is possible to retain **rh-eclipse46** and also install **rh-eclipse47**, simultaneously.

To upgrade an existing Red Hat JBoss Developer Studio installation to a newer version, perform the following steps:

1. To uninstall Red Hat JBoss Developer Studio completely, including Eclipse and the included plugins, use the following command:

```
# yum remove rh-eclipse46\*
```

2. To install rh-eclipse47 see, [Chapter 7, Installing JBoss Developer Studio Using RPM](#).

10.3.2. Updating Minor Versions of Red Hat JBoss Developer Studio Installed Using RPM

To update Red Hat JBoss Developer Studio 11.x to 11.y, use the following command:

```
# yum update rh-eclipse47\*
```


CHAPTER 11. REPORTING ISSUES FROM WITHIN RED HAT JBOSS DEVELOPER STUDIO

Red Hat JBoss Developer Studio and JBoss Tools allow users to report issues as they are encountered from within the IDE . 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.

To report an 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 Red Hat 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.