



## Red Hat Process Automation Manager 7.8

### Integrating Red Hat CodeReady Studio with Red Hat Process Automation Manager



# Red Hat Process Automation Manager 7.8 Integrating Red Hat CodeReady Studio with Red Hat Process Automation Manager

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## Abstract

This document describes how to integrate Red Hat CodeReady Studio with Red Hat Process Automation Manager.

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## PREFACE

As a developer, you can integrate Red Hat CodeReady Studio with Red Hat Process Automation Manager to write complex applications and leverage code auto-completion.

# CHAPTER 1. INSTALLING RED HAT CODEREADY STUDIO

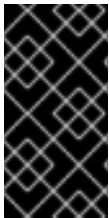
Red Hat CodeReady Studio is an integrated development environment (IDE) based on Eclipse. It integrates tooling and runtime components by combining Eclipse, Eclipse Tooling, and Red Hat JBoss Enterprise Application Platform. Red Hat CodeReady Studio provides plug-ins with tools and interfaces for Red Hat Process Automation Manager.

## Procedure

1. Download Red Hat CodeReady Studio:
  - a. Log in to the [Red Hat Customer Portal](#).
  - b. Click **DOWNLOADS** at the top of the page.
  - c. On the **Product Downloads** page, navigate to the **RUNTIMES** section, and click **Red Hat Developer Studio**.
  - d. On the **Software Downloads** page, download **Red Hat CodeReady Studio 12.15.0 Stand-alone Installer** (**codereadystudio-12.15.0.GA-installer-standalone.jar**).
2. In a terminal window, navigate to the directory where you downloaded the installer JAR file and enter the following command:

```
java -jar codereadystudio-12.15.0.GA-installer-standalone.jar
```

3. Follow the instructions in the installer to complete the installation.  
For more information, see the [Red Hat CodeReady Studio Installation Guide](#).



## IMPORTANT

Because of an issue in the way multi-byte rule names are handled, you must ensure that the instance of Red Hat CodeReady Studio is started with the file encoding set to **UTF-8**. You can do this by editing the `$DS_HOME/studio/codereadystudio.ini` file and adding the following property: **"-Dfile.encoding=UTF-8"**.



## CHAPTER 2. INSTALLING RED HAT CODEREADY STUDIO PLUG-INS

The Red Hat CodeReady Studio plug-ins for Red Hat Process Automation Manager are based on the community version of the plug-ins. For this reason, the Red Hat Process Automation Manager plug-in is called the Drools plug-in.

### Procedure

1. Download the Red Hat Process Automation Manager plug-ins for Red Hat CodeReady Studio:
  - a. Log in to the [Red Hat Customer Portal](#).
  - b. Click **DOWNLOADS** at the top of the page.
  - c. On the **Product Downloads** page that opens, navigate to the **RUNTIMES** section, and click **Red Hat Developer Studio**.
  - d. On the **Software Downloads** page, from the **Version** list select **12.11.0**, and then download **Red Hat CodeReady Studio Integration Stack 12.11.0 Update Site Zip**(**devstudio-integration-stack-12.11.0.GA-updatesite.zip**).
2. To start Red Hat CodeReady Studio, select Red Hat CodeReady Studio from the **Start** menu.
3. Click **Help** → **Install New Software**.
4. Click **Add** to display the **Add Repository** window.
5. Enter a name in the **Name** field, for example, **devstudio-12.11.0.GA**.
6. Click **Archive**, navigate to the **devstudio-integration-stack-12.11.0.GA-updatesite.zip** file, select the file, and then click **OK**.
7. Click **Add**.
8. In the **Install** window, select **JBoss Business Process and Rule Development** from the **Available Software** list, click **Next**, and click **Next** again.
9. Read the license agreements, click **I accept the terms of the license agreements** to accept the license agreements, and then click **Finish**.
10. After the installation process has been completed, click **Restart Now** in the **Software Updates** window to restart Red Hat CodeReady Studio.

## CHAPTER 3. CONFIGURING THE RED HAT PROCESS AUTOMATION MANAGER SERVER

You can configure Red Hat CodeReady Studio to run the Red Hat Process Automation Manager server.

### Prerequisites

- Red Hat CodeReady Studio is installed with the Red Hat Process Automation Manager plug-ins.
- Red Hat Process Automation Manager is installed in a Red Hat JBoss EAP 7.3 server instance.

### Procedure

1. Start Red Hat CodeReady Studio.
2. Click **Window** → **Show View** → **Other**, select **Server** → **Servers**, and then click **Open** to add the server view.
3. Right-click on the **Servers** pane and select **New** → **Server** to open the server menu.
4. Click **Red Hat JBoss Middleware** → **JBoss Enterprise Application Platform 7.x** and then click **Next** to define the server.
5. In the **Create a new Server Adapter** window, select **Create new runtime (next page)** from the list, and then click **Next**.
6. To set the home directory in the **JBoss Runtime** window, click the **Browse** button under **Home Directory** and navigate to the Red Hat JBoss EAP directory where Red Hat Process Automation Manager is installed.
7. Enter a name for the server in the **Name** field, ensure that the configuration file is set, and then click **Finish**.

## CHAPTER 4. INSTALLING RED HAT PROCESS AUTOMATION MANAGER RUNTIME ENVIRONMENTS

In order to create Red Hat Process Automation Manager projects in Red Hat CodeReady Studio, it is necessary to install the Red Hat Process Automation Manager runtime environment.

A runtime environment is a collection of JAR files that represent a specific release of the software and includes the required libraries for compiling and running your business asset.

### Prerequisites

- Red Hat CodeReady Studio is installed.

### Procedure

1. Download the process engine:
  - a. Log in to the [Red Hat Customer Portal](#).
  - b. Click **DOWNLOADS** at the top of the page.
  - c. On the **Product Downloads** page that opens, navigate to the **INTEGRATION AND AUTOMATION** section, and click **Red Hat Process Automation Manager**.
  - d. On the **Software Downloads** page, download **Red Hat Process Automation Manager 7.8.0 Add-Ons (rhpam-7.8.0-add-ons.zip)**.
  - e. Extract **rhpam-7.8.0-add-ons.zip** and then extract the Drools runtime environment JAR files located in `rhpam-7.8.0-add-ons/rhpam-7.8.0-process-engine.zip``
2. From the Red Hat CodeReady Studio menu, click **Window → Preferences**.
3. Click **Drools → Installed Drools Runtimes**, and then click **Add**.
4. In the name field, enter a name for the new runtime environment.
5. Click **Browse** and navigate to the directory where you extracted the runtime environment files.
6. Click **OK** to register the selected runtime environment in Red Hat CodeReady Studio.
7. To set the runtime environment as the default Drools runtime, select the check box beside the runtime environment name.
8. Click **Apply and Close**. If you have existing projects, you are prompted to restart Red Hat CodeReady Studio to update the runtime environment.

## CHAPTER 5. CREATING A RED HAT PROCESS AUTOMATION MANAGER PROJECT

You can create and manage a Red Hat Process Automation Manager project in Red Hat CodeReady Studio.

### Prerequisites

- Red Hat CodeReady Studio is installed with the Red Hat Process Automation Manager plug-ins.
- Red Hat Process Automation Manager runtime environment is installed.

### Procedure

1. In Red Hat CodeReady Studio, from the main menu, click **File** → **New** → **Project**.
2. In the search field, enter **Drools Project**, select **Drools Project**, and then click **Next**.
3. Select the second option to create a project with a Red Hat Process Automation Manager example, and then click **Next**.
4. In the **Project name** field, enter a name for the project.
5. Click **Finish**.
6. Complete the following steps to test the project:
  - a. Navigate to the **src/main/java** directory and expand the **com.sample** package.
  - b. Right click a Java class and select **Run As** → **Java Application**.  
The output is displayed on the console tab.

## CHAPTER 6. IMPORTING PROJECTS FROM A GIT REPOSITORY INTO RED HAT CODEREADY STUDIO

You can configure Red Hat CodeReady Studio to connect to a central Git asset repository. The repository stores rules, models, functions, and processes. You can either clone a remote Git repository or import a local Git repository.

### 6.1. CLONING A REMOTE GIT REPOSITORY

You can clone a Git repository to use with Red Hat CodeReady Studio.

#### Prerequisites

- Red Hat CodeReady Studio is installed with the Red Hat Process Automation Manager plug-ins.
- You have access permission for the remote Git repository that you want to clone.

#### Procedure

1. In Red Hat CodeReady Studio, select the server from the **Server** tab and click the start icon to start the server.
2. Enter the following command in a terminal to start the secure shell server, if it is not running already.

```
/sbin/service sshd start
```



#### NOTE

This command is specific to Linux and Apple Macintosh. On these platforms, if **sshd** has already been started, this command fails. If this happens, you may safely ignore this step.

3. In Red Hat CodeReady Studio, select **File** → **Import...** and navigate to the Git folder.
4. Open the Git folder, select **Projects from Git**, and click **Next**.
5. Select the repository source as **Clone URI** and click **Next**.
6. Enter the details of the Git repository and click **Next**.
7. Select the branch you want to import and click **Next**.
8. To define the local storage for this project, enter or select a non-empty directory, make any configuration changes, and click **Next**.
9. Import the project as a general project in the following window and click **Next**.
10. Name the project and click **Finish**.

### 6.2. IMPORTING A LOCAL GIT REPOSITORY

You can import a local Git repository to use with Red Hat CodeReady Studio.

## Prerequisites

- Red Hat CodeReady Studio is installed.

## Procedure

1. In Red Hat CodeReady Studio, select the server from the **Server** tab and click the start icon to start the server.
2. Select **File** → **Import** and navigate to the Git folder.
3. Open the Git folder to select **Projects from Git** and click **Next**.
4. Select **Existing local repository** as the repository source and click **Next**.
5. Select the repository that is to be configured from the list of available repositories and click **Next**.
6. In the window that opens, select **Import as general project** and click **Next**.
7. Name the project and click **Finish**.

## CHAPTER 7. ADDITIONAL RESOURCES

- [\*Getting Started with Container and Cloud-based Development\*](#)
- [\*Getting Started with CodeReady Studio Tools\*](#)

## APPENDIX A. VERSIONING INFORMATION

Documentation last updated on Wednesday, July 29, 2020.