

Rational Build Forge



# Tutorial 2: Creating and using Rational Build Forge libraries

*Version 7.1.3*

**Note**

Before using this information and the product it supports, read the information in "Notices," on page 5.

This edition applies to version 7.1.3 of Rational Build Forge and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Tutorial 2: Creating and using Rational Build Forge libraries

A *library* is an IBM® Rational® Build Forge® project that does not specify a selector. Libraries are useful for extracting repeated code so that the code does not have to be reentered as a step or series of steps in each project. Instead, the project can simply utilize the library.

The tutorial shows you how to do the following tasks:

- Create a library
- Copy a project
- Inline a library
- Use a library as part of a pass/fail chain

Time required: 30 minutes

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### Creating a library

Begin by creating a library.


1. Start Rational Build Forge and log in.
2. In menu on the left, click **Libraries**.
3. Click **Add Library**.
4. In the **Library: Add Library** pane at bottom, on the Library Details page, in the **Name** field, type basicLibrary.
5. Leave the default values for the rest of the fields.
6. Click **Save**.
7. Click **Add Step**.
8. In the **Name** field, type a name for the step. For example, type echo.
9. In the **Command** field, type echo basicLibrary.
10. Click **Save Step**.

You created a library called basicLibrary with a step named echo. Libraries use the selector of any step that calls them. If a calling step does not have a selector, the library uses the selector of the step's project. Libraries are typically called by other projects as an Inline for a step or as a Pass chain or Fail chain for a step.

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### Copying a project

You can copy each project as many times as you like. All commands and settings are copied identically. In a production environment, you might want to copy a project to provide a test bed for making changes to the original project.

1. In the menu on the left, click **Projects**.
2. Next to the "Hello World" project that you created in Tutorial 1: Creating, running, and scheduling a Rational Build Forge project, click the edit button .
3. Click **Copy Project**.

A new project is created, named "Hello World Copy", which is identical to "Hello World."

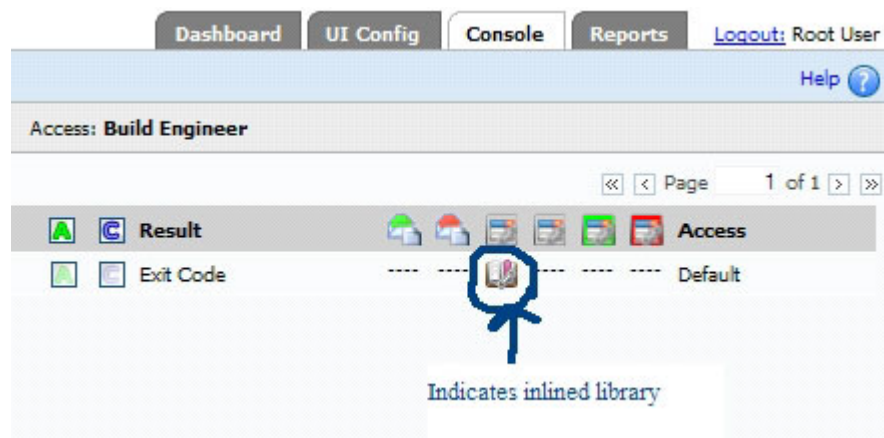
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## Inlining a library

By associating a step with an inlined library, the code in the step **Command** field is run; then the steps in the library run as if they were *inline* with the rest of the project code.

1. Click the edit button next to the Hello World Copy project and then, in the **Name** field, enter a new name. For example, type Hello World with Library.
2. Click the **Hello World with Library** project. The Steps page is shown.
3. Click the **echo** step.
4. In the **Inline** field, select the library you created earlier, **basicLibrary**.
5. Click **Save Step**.

You have now inlined a library. The icons on the right side of the page show that a library is being used, as shown in the following screen capture.



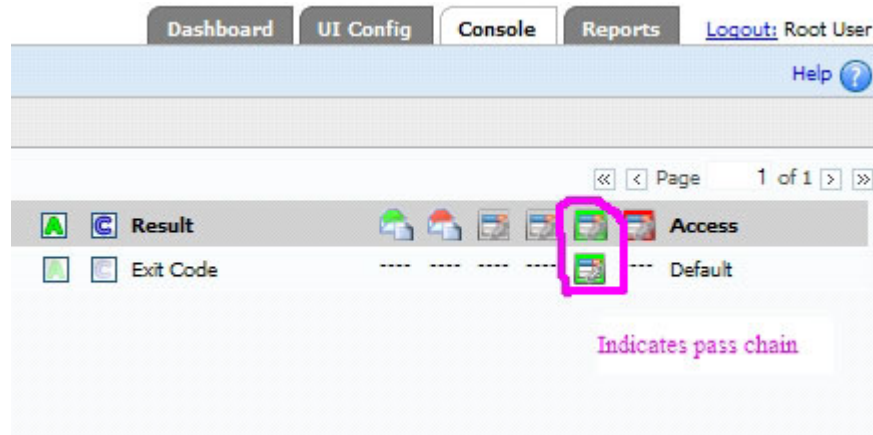
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## Using a library as part of a pass or fail chain

If the commands of a particular step run without an error (the commands pass) and if there is a library or project selected under the pass chain, the step will run. Otherwise, if the commands fail, the pass library or project will not run; instead, the library or project selected under the fail chain will run.

1. Repeat the steps to copy a project.
2. Click the new project name, **Hello World with Library Chain**.
3. In the **Pass Chain** field, select **basicLibrary**.

Now the basicLibrary commands will run only if the echo step commands *pass*, which means to run without errors.



**Note:** The **Fail Chain** field is still empty. Also, there is a library/project to run on the pass chain.

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## Tutorial summary

Now that you have completed this tutorial, you can create your own libraries and add them to pass or fail chains.



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## Appendix. Notices

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