OpenShift Tools Reference Guide

Version: 3.3.0.GA

Introduction

OpenShift is a cloud solution for your application server requirements. OpenShift Express in particular is a free, cloud-based application platform for Java, Perl, PHP, Python, and Ruby applications. JBoss Developer Studio supports OpenShift Express and this guide will show you how to connect, create and deploy with OpenShift Express from your JBoss Developer Studio workbench.

Creating an OpenShift Express Application

From the workbench go to **File** → **New** → **Other**.

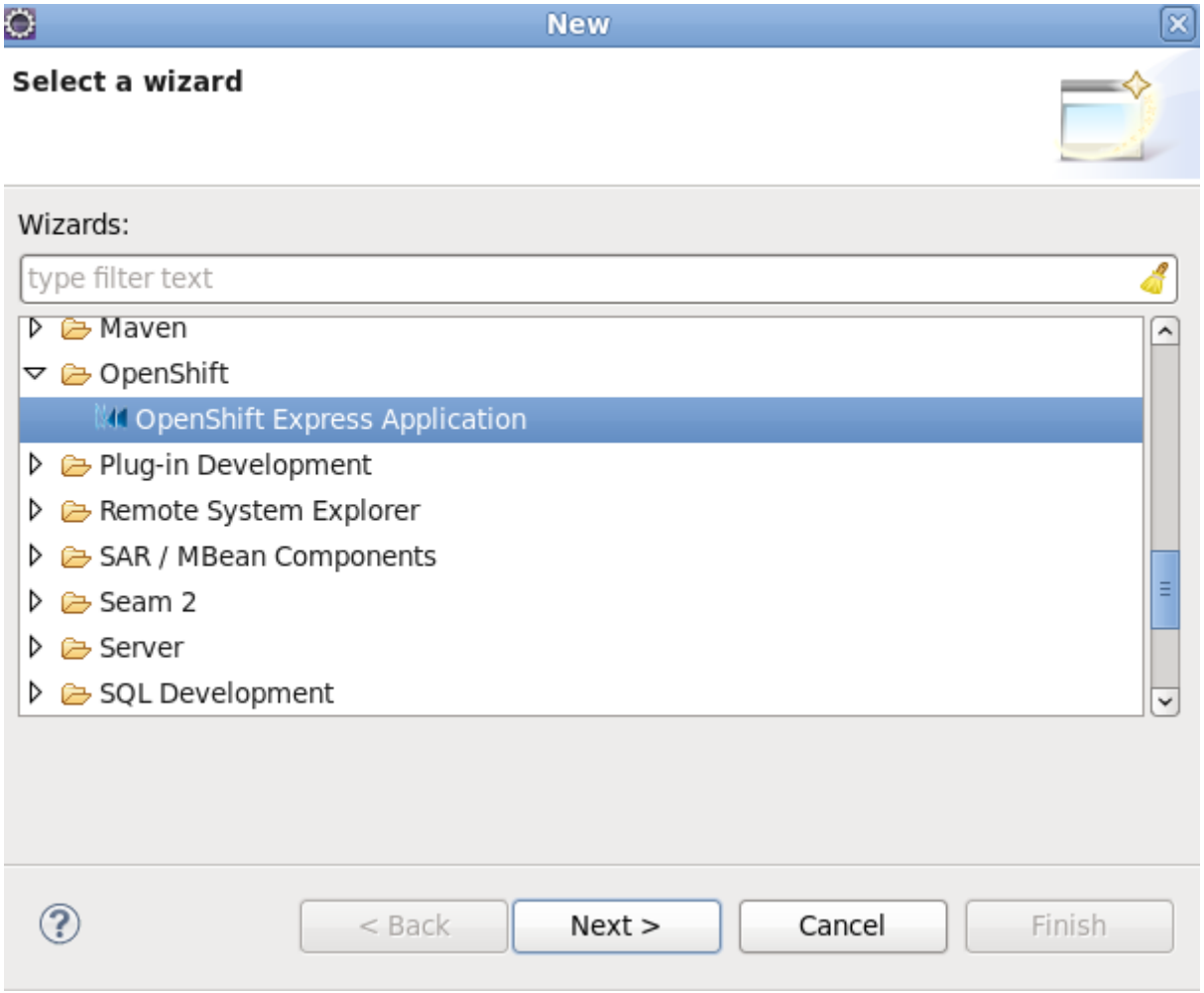

Figure 2.1. Selecting the OpenShift Express Application wizard

In the wizard, go to and select **OpenShift** → **OpenShift Express Application**. With the wizard choice selected, click on the **Next** button.

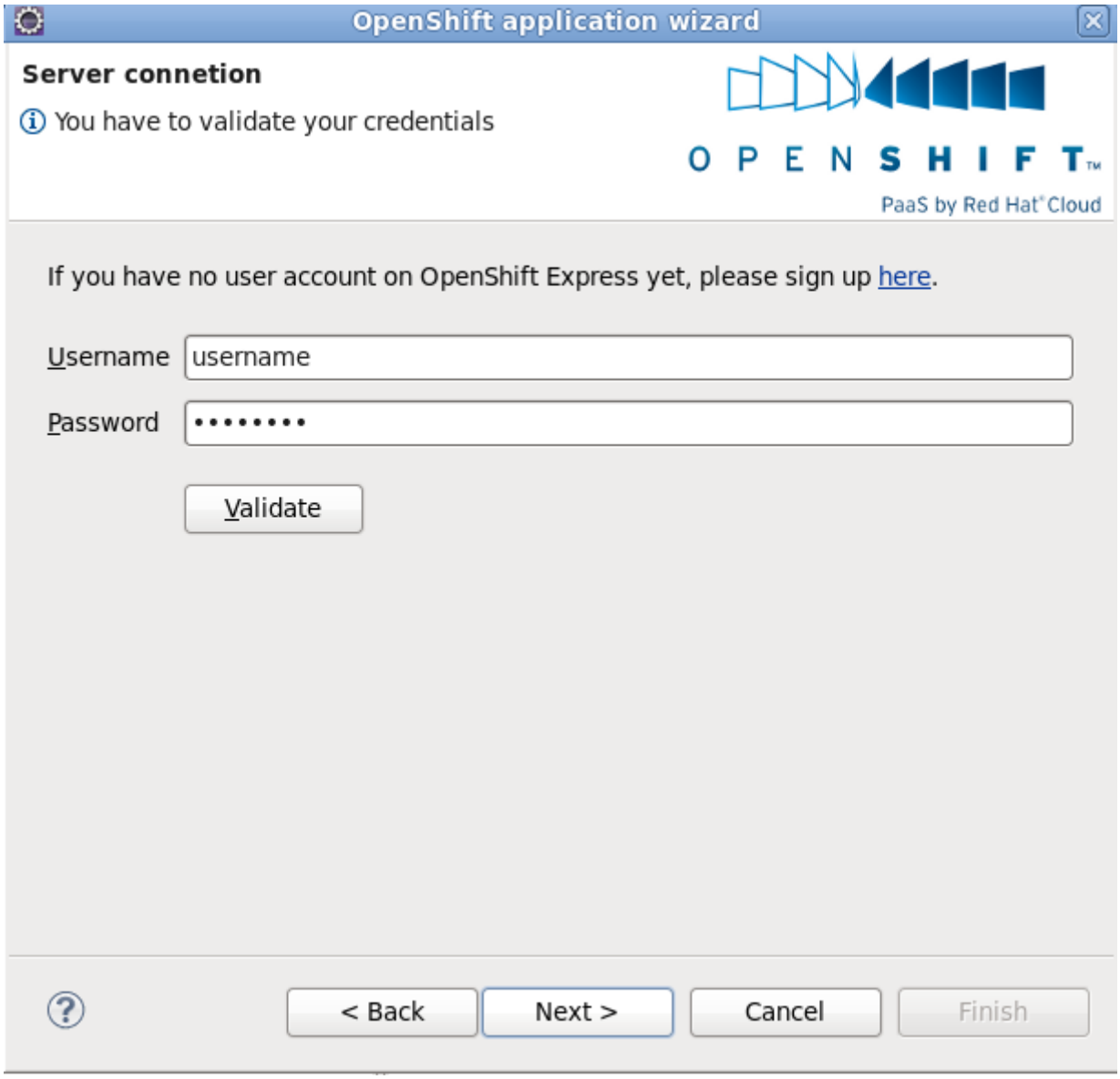

Figure 2.2. Validating OpenShift credentials

If you have already signed up for an OpenShift Express account then you can input your **Username** and **Password** here and click **Validate**. If validation is successful you will see the button is now unavailable and no error was presented.

If you do not have an OpenShift Express account, you can create one through the link at the top of the wizard screen. This will open the OpenShift sign-up page within your workbench. Once you have created an account you will need to relaunch the **OpenShift Express Application** wizard and input your new username and password.

Click the **Next** button to proceed.

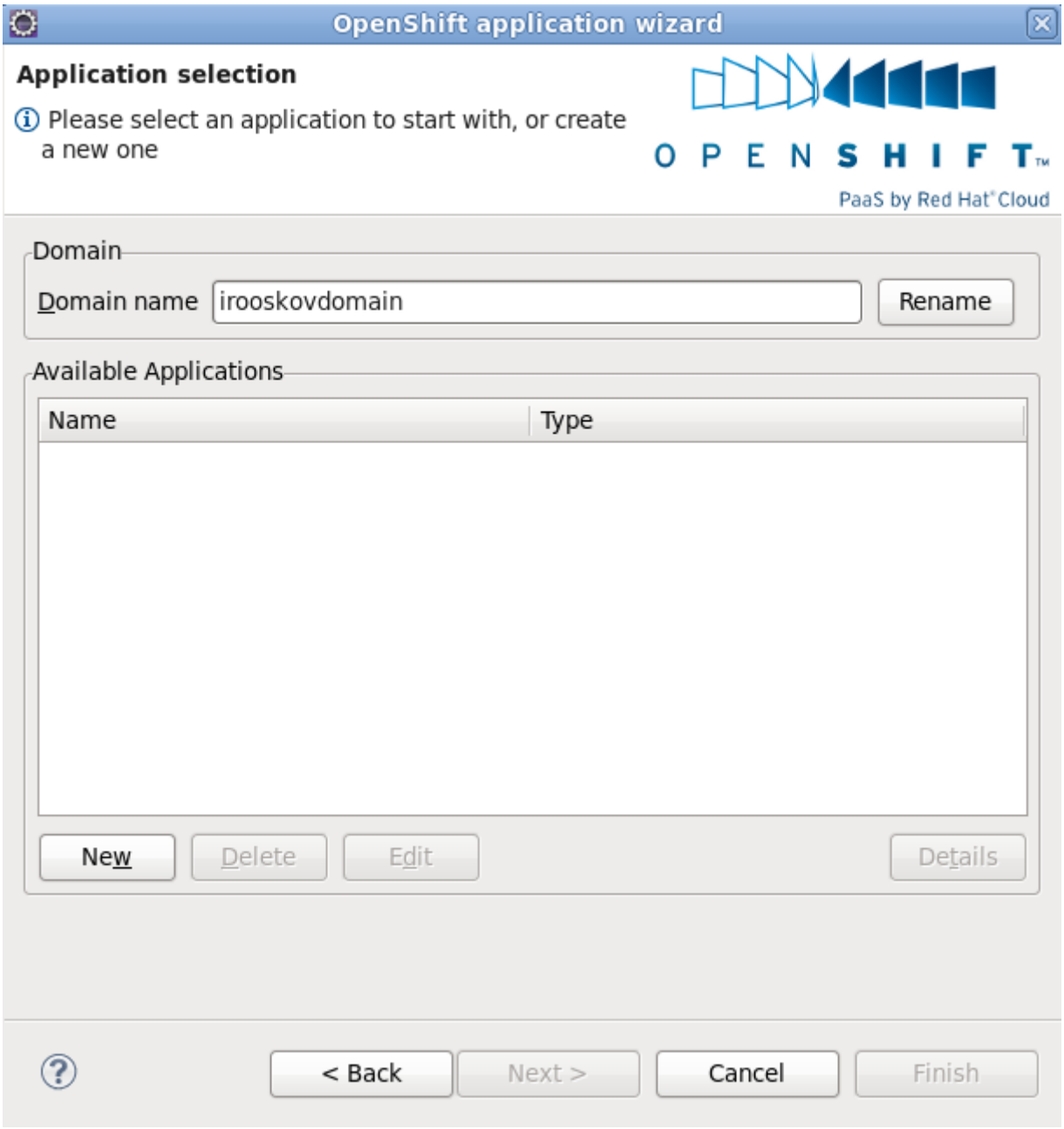

Figure 2.3. Setting the domain name

If you already have a domain name then you can type this into the **Domain name** field.

If you need to create a domain, type the name you wish to have into the **Domain name** field and click the **Create** button. After clicking **Create**, you will need to provide your public SSH key. You will need to ensure that the paired private key is listed within the SSH2 Preferences. If you are unsure, click the **SSH2 Preferences** link in the window. Click **Finish** to complete domain creation.

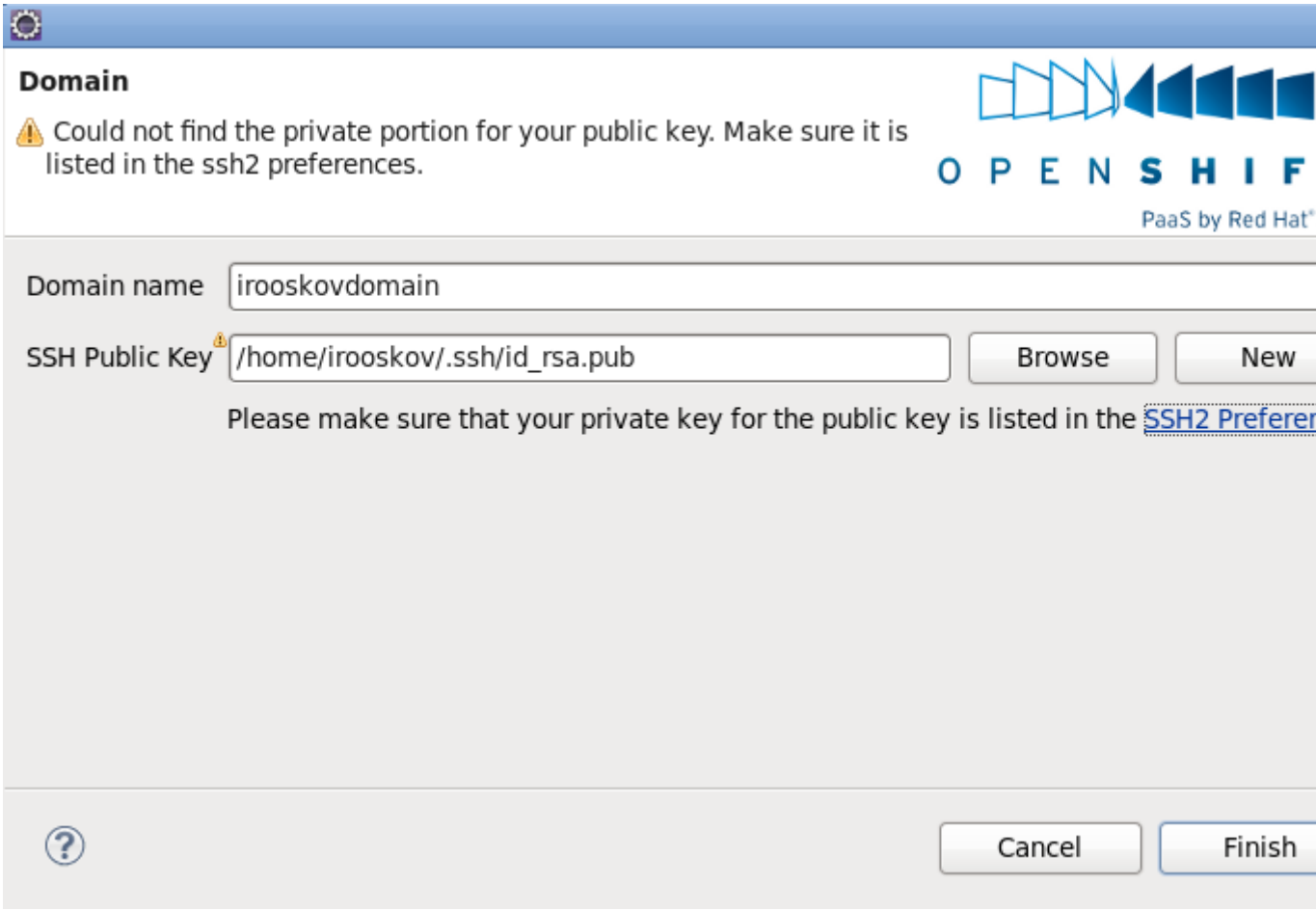

Figure 2.4. Creating a domain name

Note

If you ever wish to rename your domain, you can do so by changing the name as it appears in the **Domain name** field and then click **Rename**.

Click the **New** in the **Available Applications** section of the wizard to begin creating your first OpenShift application for the specified domain.

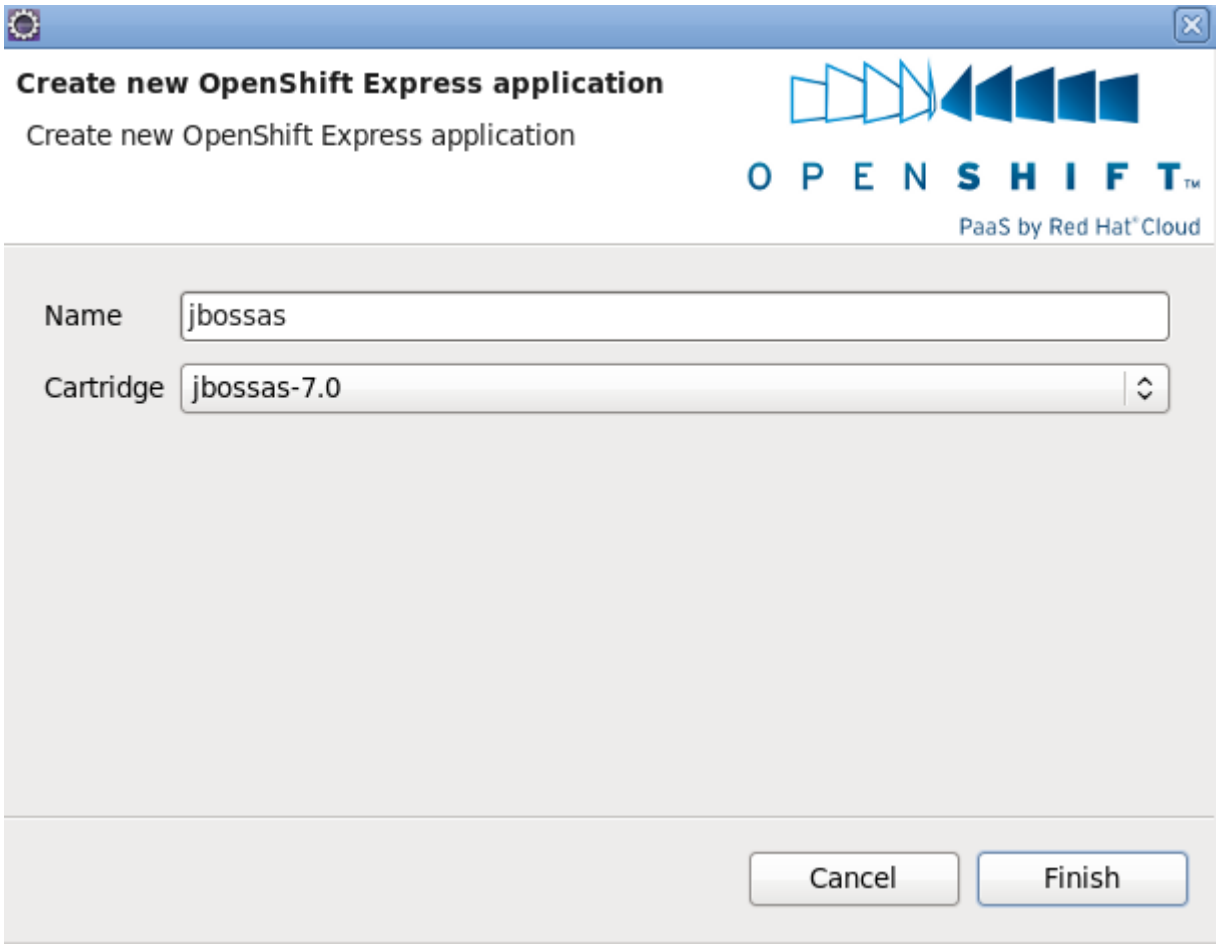

Figure 2.5. Creating a new OpenShift Express application

You will need to specify a name for the application and the platform to deploy for, from the **Cartdige** drop-down list. Click the **Next** to embedd cartridges or click **Finish** to create the application.

Note

No underscores or special characters are allowed in the application name.

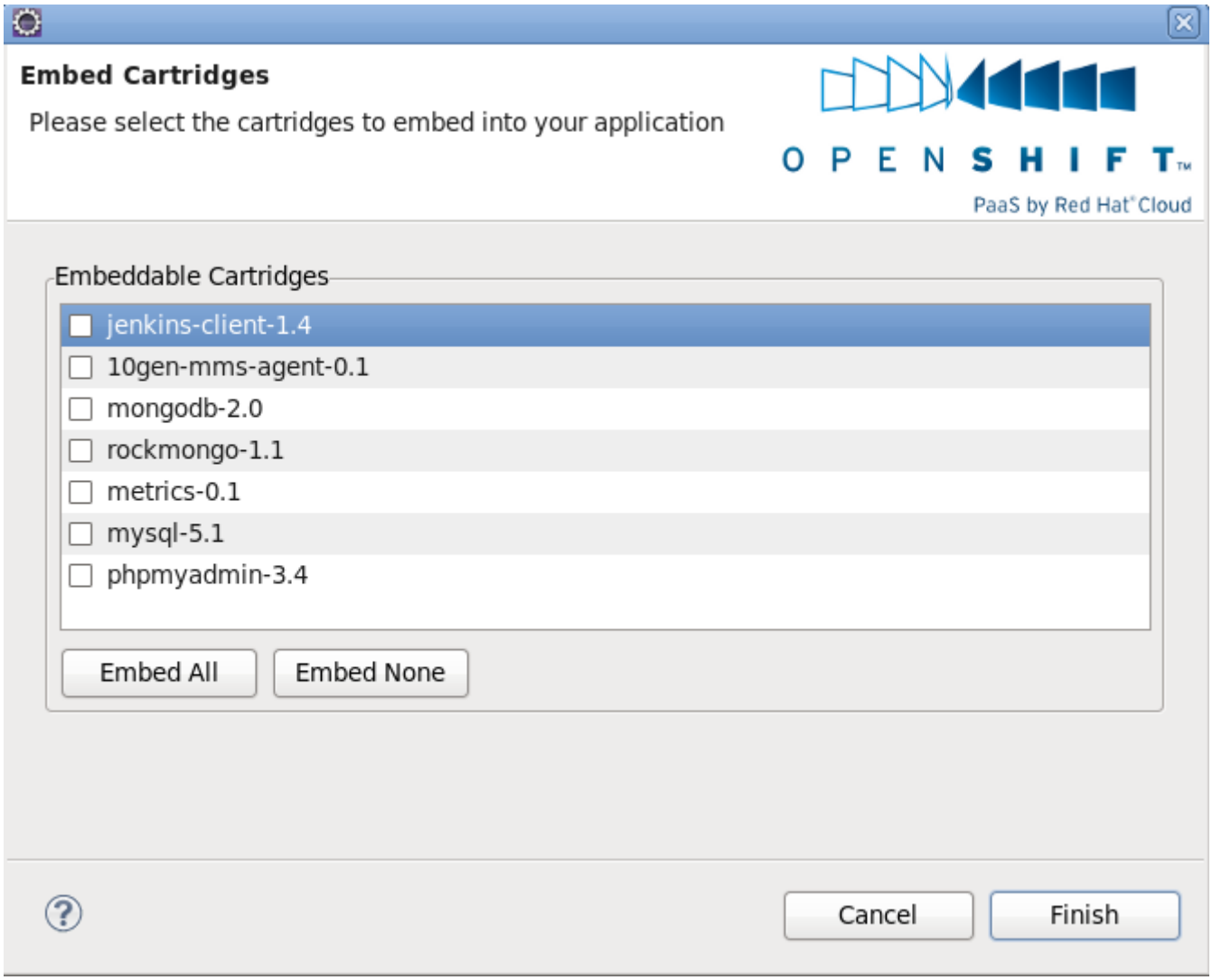

Figure 2.6. Embed Cartridges

If you clicked **Next**, you will now see the **Embed Cartridges** screen. From here you can choose to embed any numbe rof cartridges, or none. Once you have finished your selection click **Finish**.

Note

The **Embed Cartridges** screen can also be access by highlighting a project in the **Available Applications** section of the **Application Selection** screen and clicking on the **Edit** button. To embed your application with a cartridge is to grant the capability to your application. For example, embedding the **mysql** cartridge will grant your application the capability to use a MySQL database.

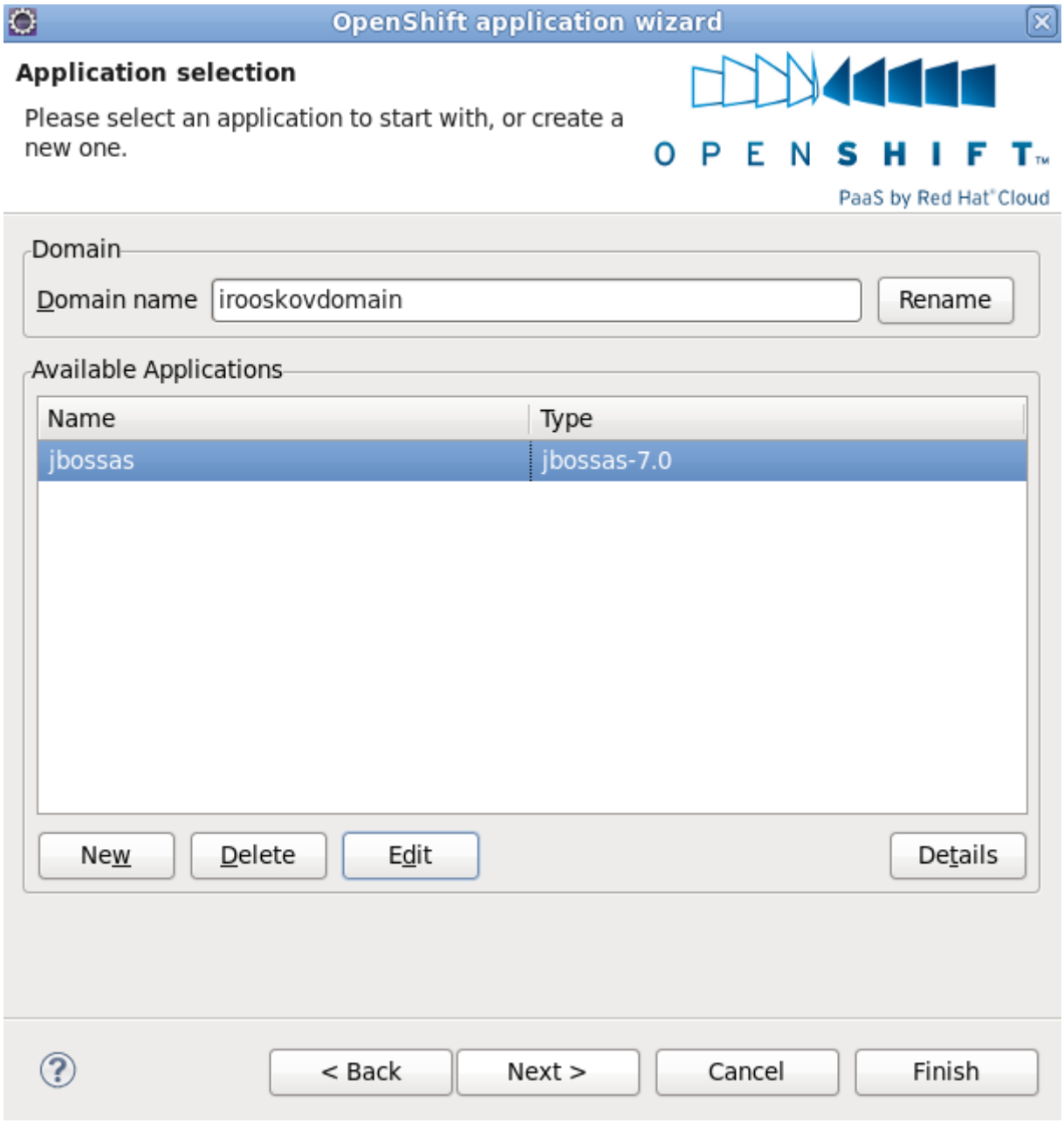

Figure 2.7. Created application availability

You can select an available application by clicking on it in the **Available Applications** section of the window. Having selected an application, you can now **Delete** or view the details of the application by clicking the **Details**; try that now.

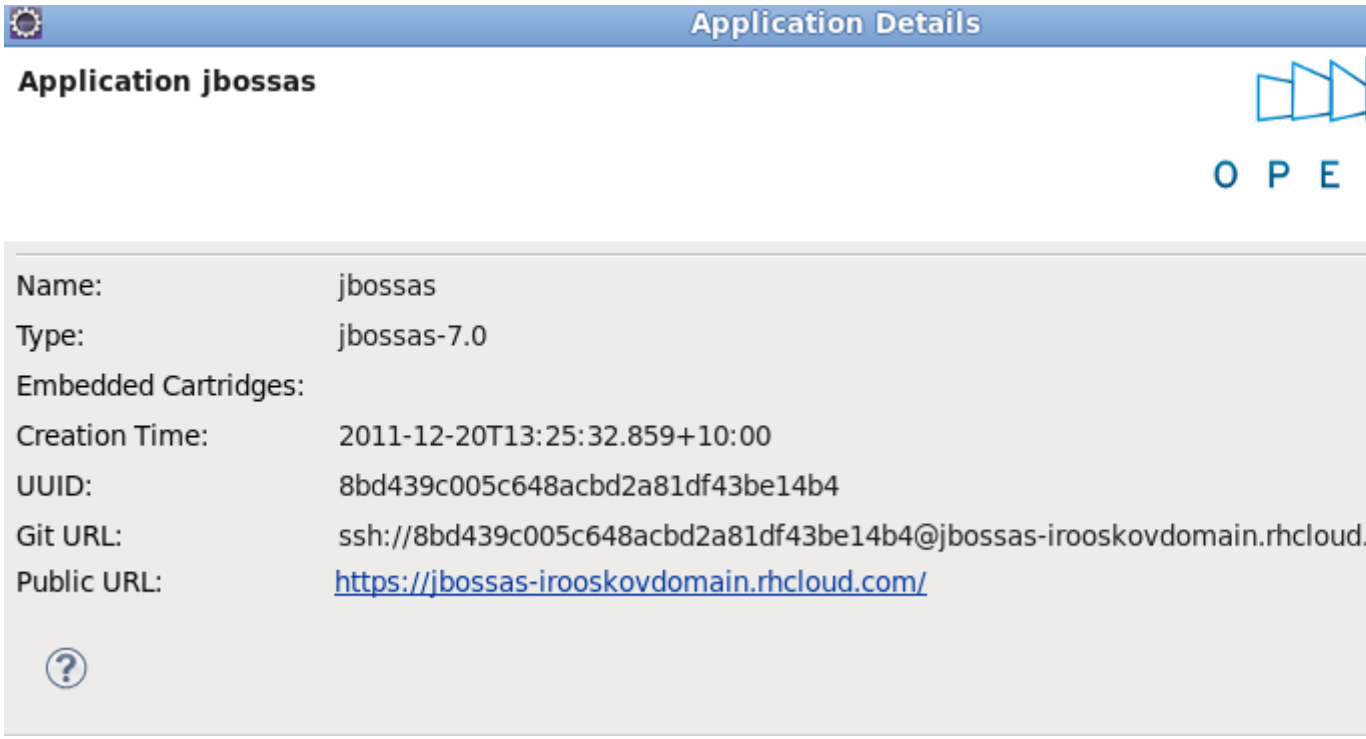

Figure 2.8. Application details

The **Application Details** will provide you with all the information available concenring the application. To close this window and return to the previous window, click **OK**.

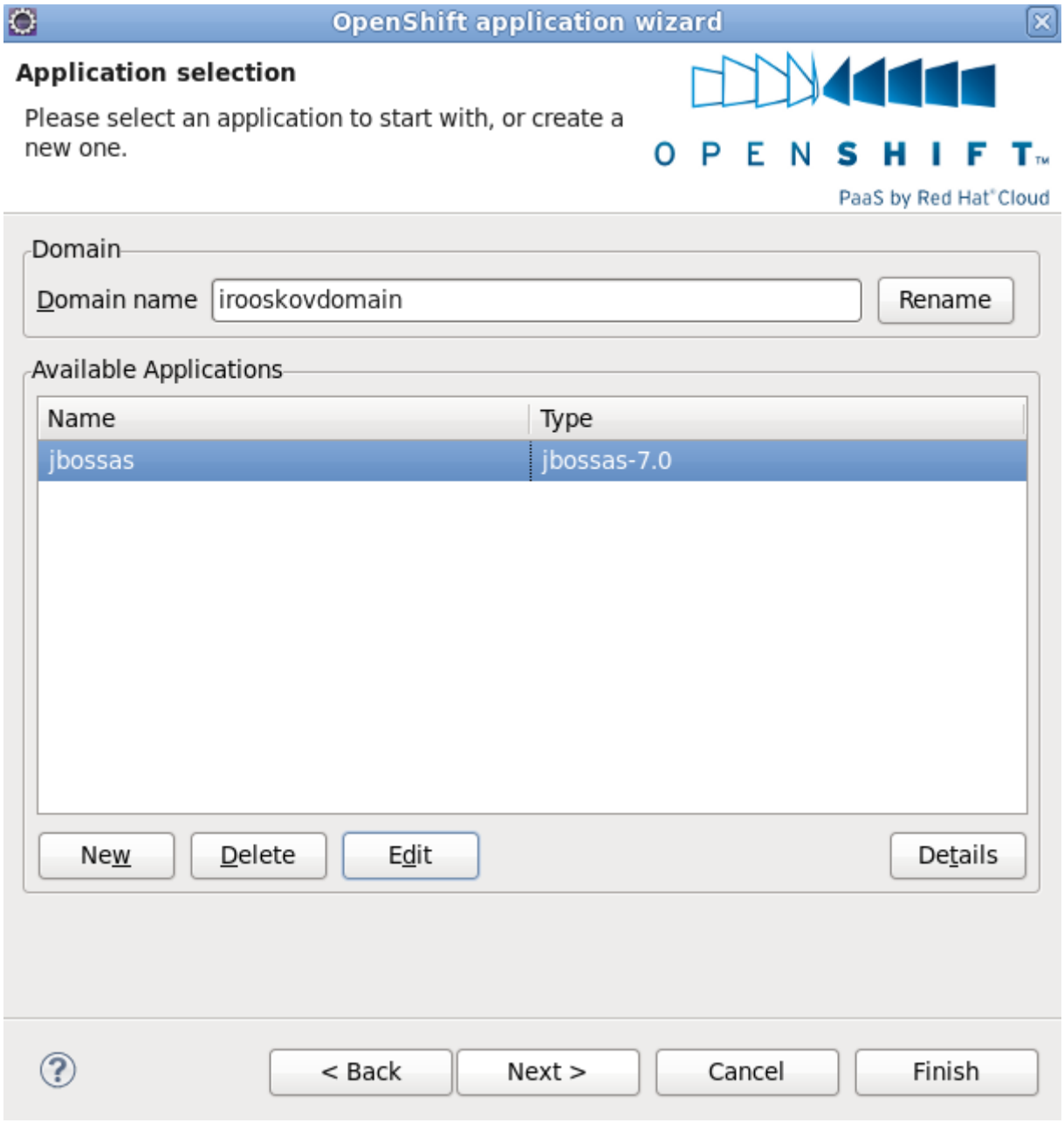

Figure 2.9. Application availability

Click the **Next** to proceed to the next screen.

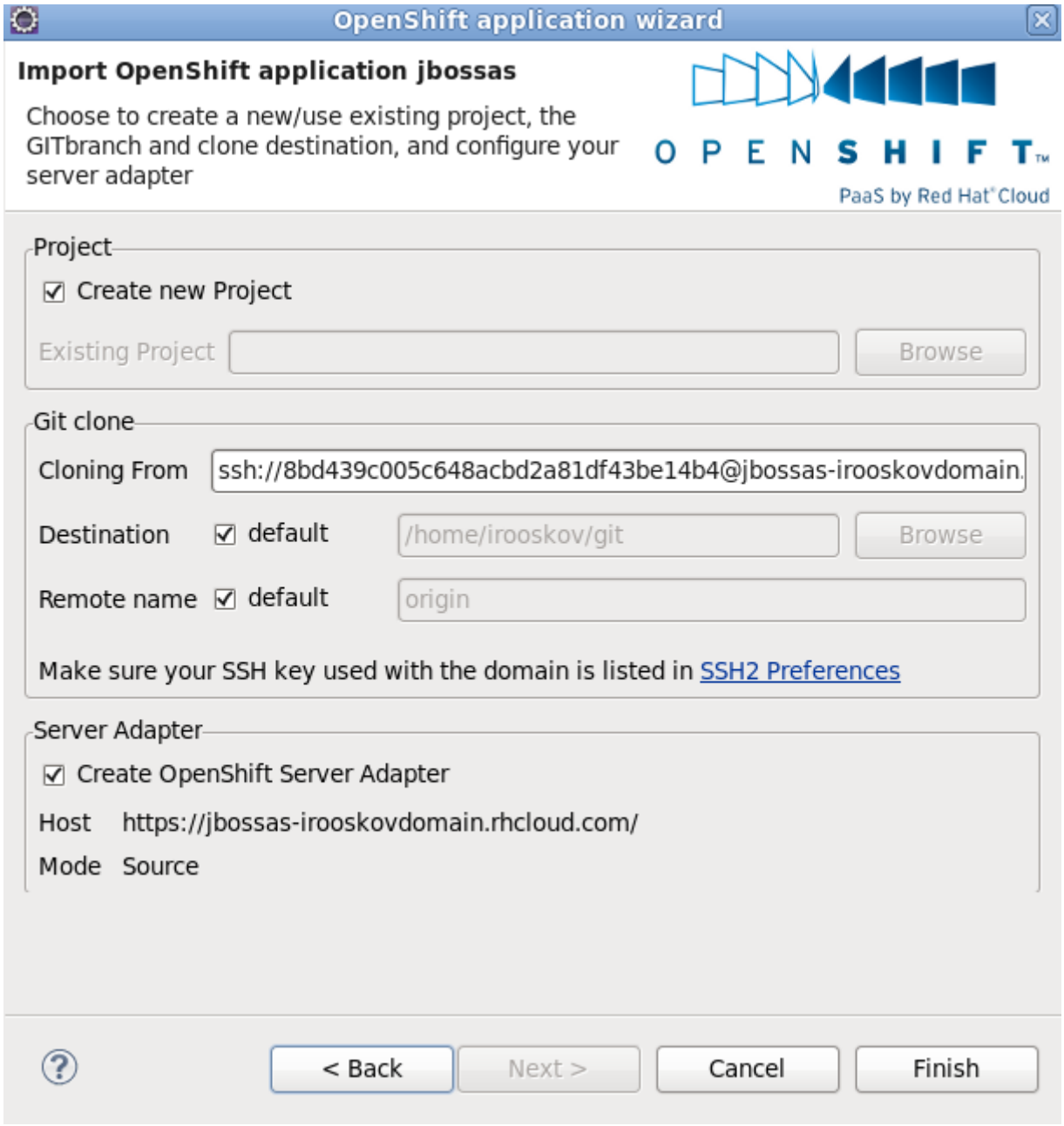

Figure 2.10. Cloned Git Repository

The final screen of the **OpenShift application wizard** specifies **Git clone** settings and **JBoss Server adapter** options.

In the **Git clone** section of the window sets the properties for creating a local copy of your application for you to work with. The location of your application in the Git repository of your domain is present in the **Cloning From** field. The **Destination** and **Remote name** options will be set to default automatically, however you are able to change these by deselecting the default option and specifying custom settings in the fields provided.

The **JBoss Server adapter** section of the window will have the option to Create a JBoss server adapter selected automatically. Creating a JBoss server adapter will allow you to publish changes you make to your application, back to your OpenShift Express domain.

Click the **Finish** to begin the cloning of the Git repository.

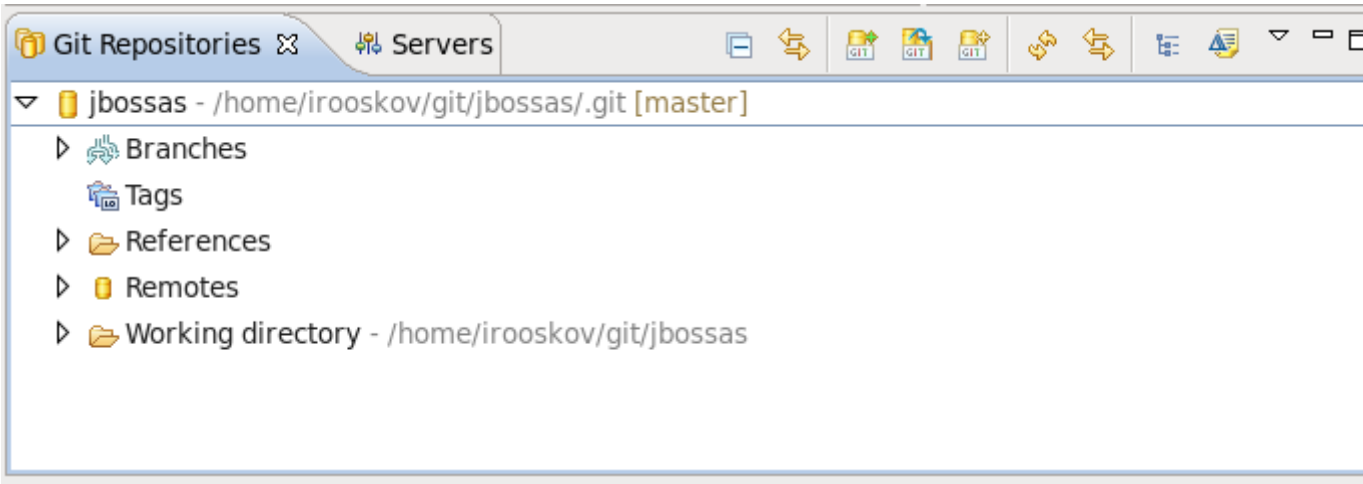

Figure 2.11. Importing the project

After the Git repository has been cloned, you will see a new **Git Repositories** tab appear near the bottom of your workbench. If you do not see the tab you can open it manually by navigating to **Window** → **Show View** → **Other** → **Git** → **Git Repositories**. With the **Git Repositories** option selected, click **OK**.

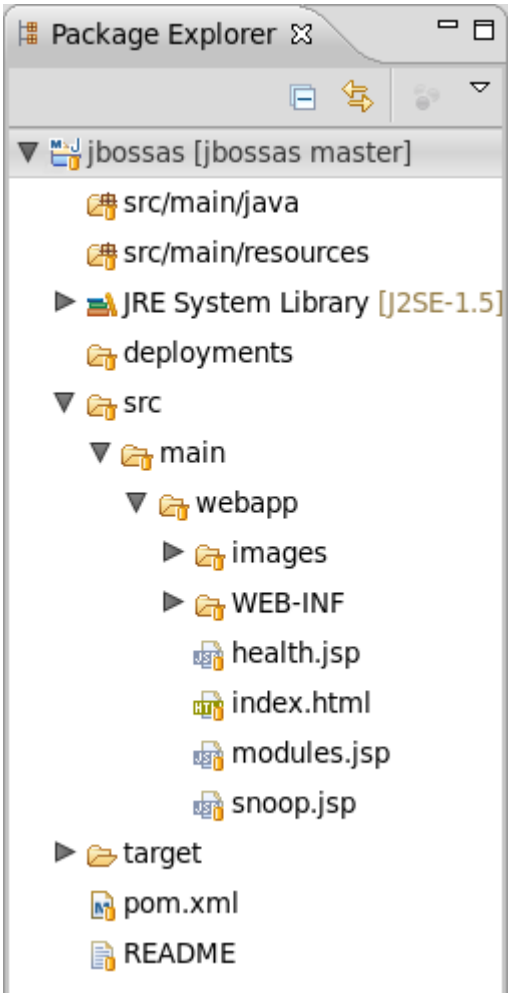

Figure 2.12. Project in Package Explorer

The OpenShift application that you created through the wizard, will appear in your **Package Explorer** tab.

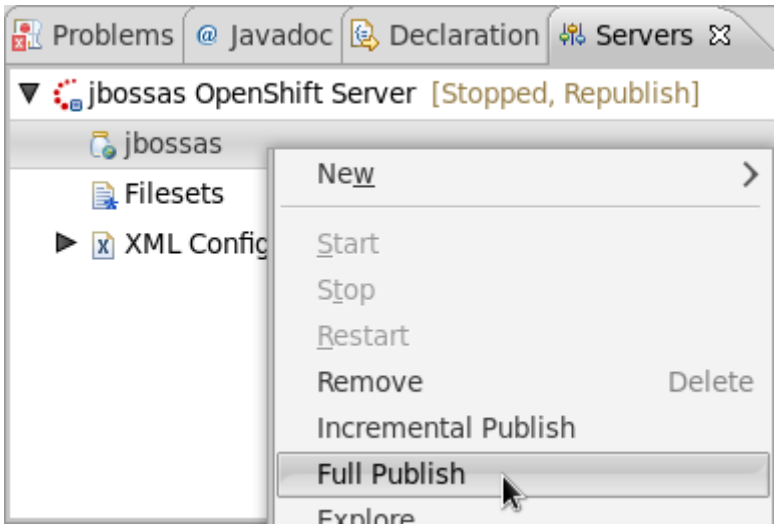

Figure 2.13. Publising your project through the server adaptor

The wizard has also created a server adaptor that connects to your OpenShift service. In the **Servers** tab there will be an OpenShift server available that contains your application. Any changes you make locally to the application can be published to your OpenShift instance by right-clicking on the application under the server in the **Servers** view, and selecting **Full Publish**.

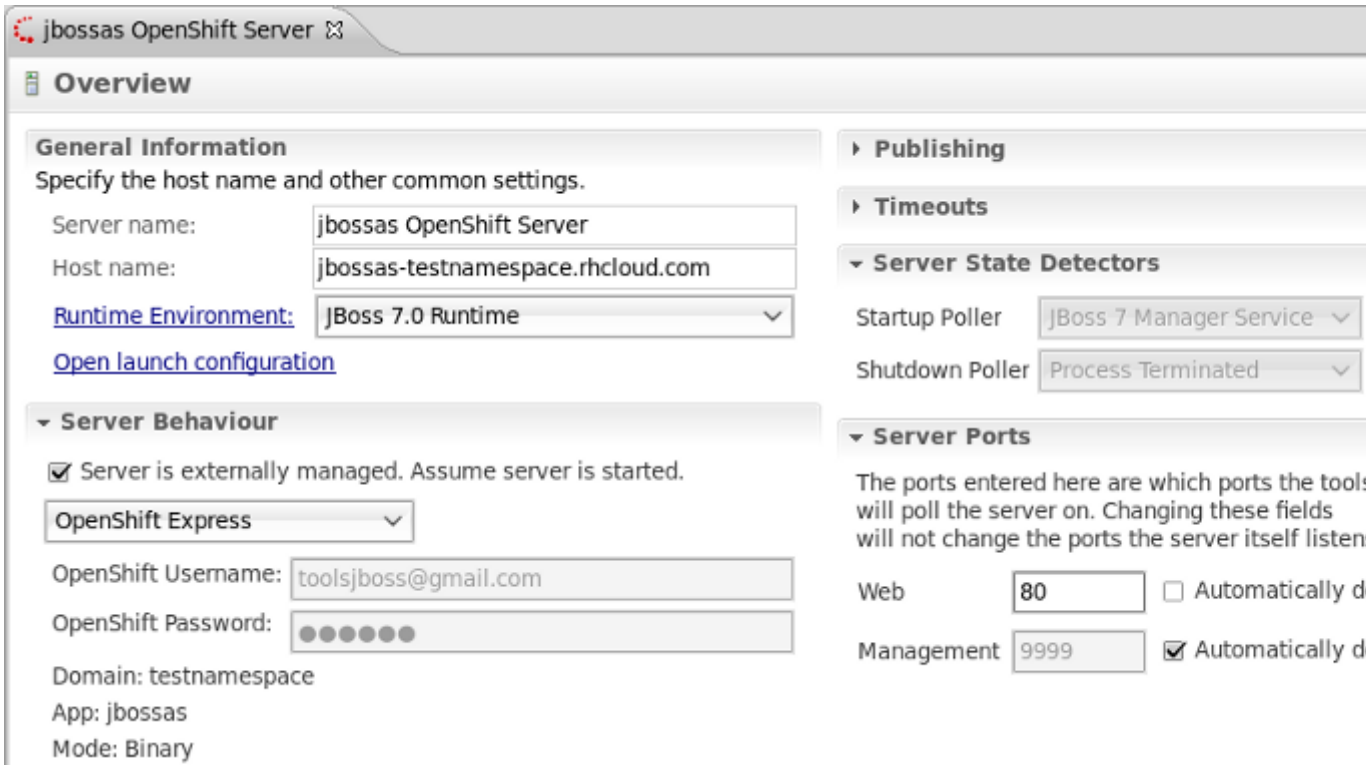

Figure 2.14. OpenShift server overview and settings

As with a local server, double-clicking on the OpenShift server instance in the **Servers** tab will open the server overview page in your workbench.

Appendix A. Revision History

Revision History

Revision 1-0 Tue Nov 29 2011 IsaacRooskov<irooskov@redhat.com>

Initial creation of book