Cloud Tools Reference Guide

Version: 3.2.1.GA

Tasks

1.1. Connecting to a Deltacloud server

Ensure the **Deltacloud** perspective is open in your workspace. To open the perspective navigate to **Window** → **Open Perspective** → **Other** and then select **Deltacloud** from the perspective options and click the **OK** button.

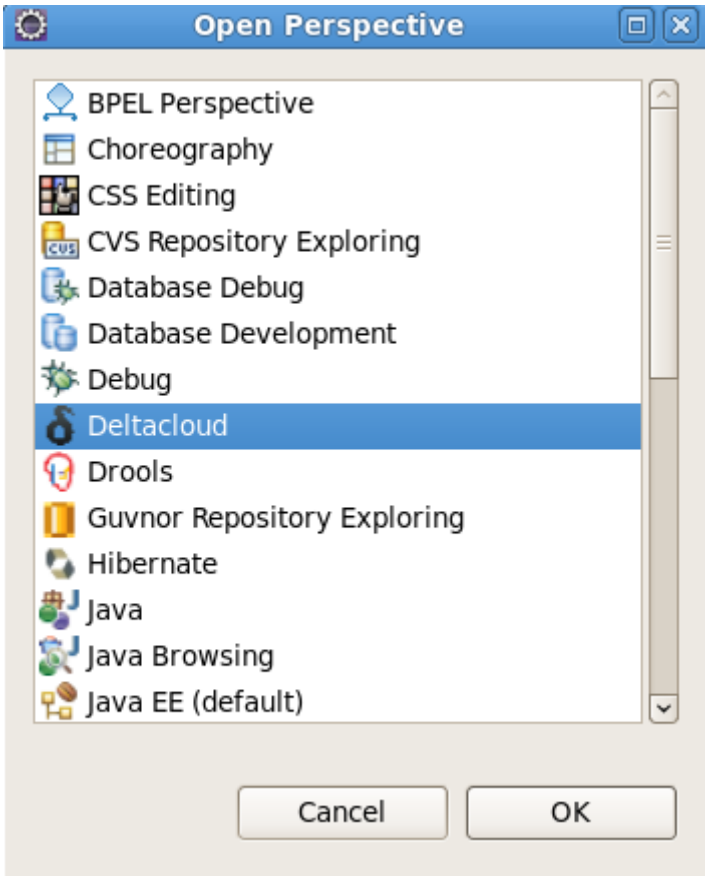

Figure 1.1. Selecting the Deltacloud perspective

To setup a connection to a Deltacloud server select **File** → **New** → **Other**. From the **New** dialog select **Deltacloud** → **Cloud Connection** and press **Next**.

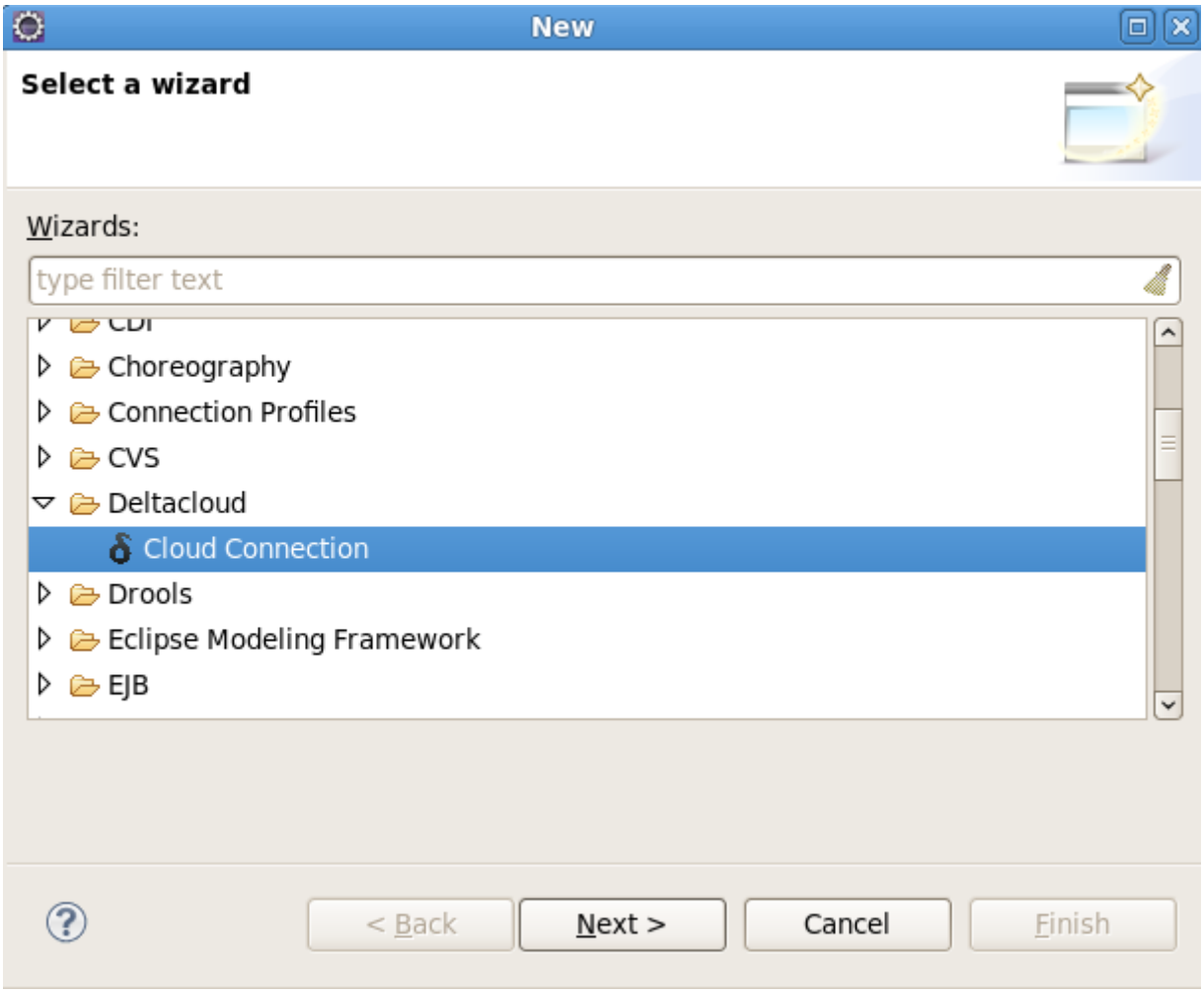

Figure 1.2. Opening the cloud connection wizard

The **Cloud Connection** dialog requires a cloud name, URL, username and password to create a connection. Once you specify the URL of a cloud server the **Type** field will automatically inform you of the cloud type. If you are connecting to an EC2 cloud type, use your *Access ID* for the **Username** field and your *Access Secret Key* for the **Password** field.

Once all fields are filled in correctly, click the **Finish** button.

Note

The default URL for a local Deltacloud server is *http://localhost:3001*.

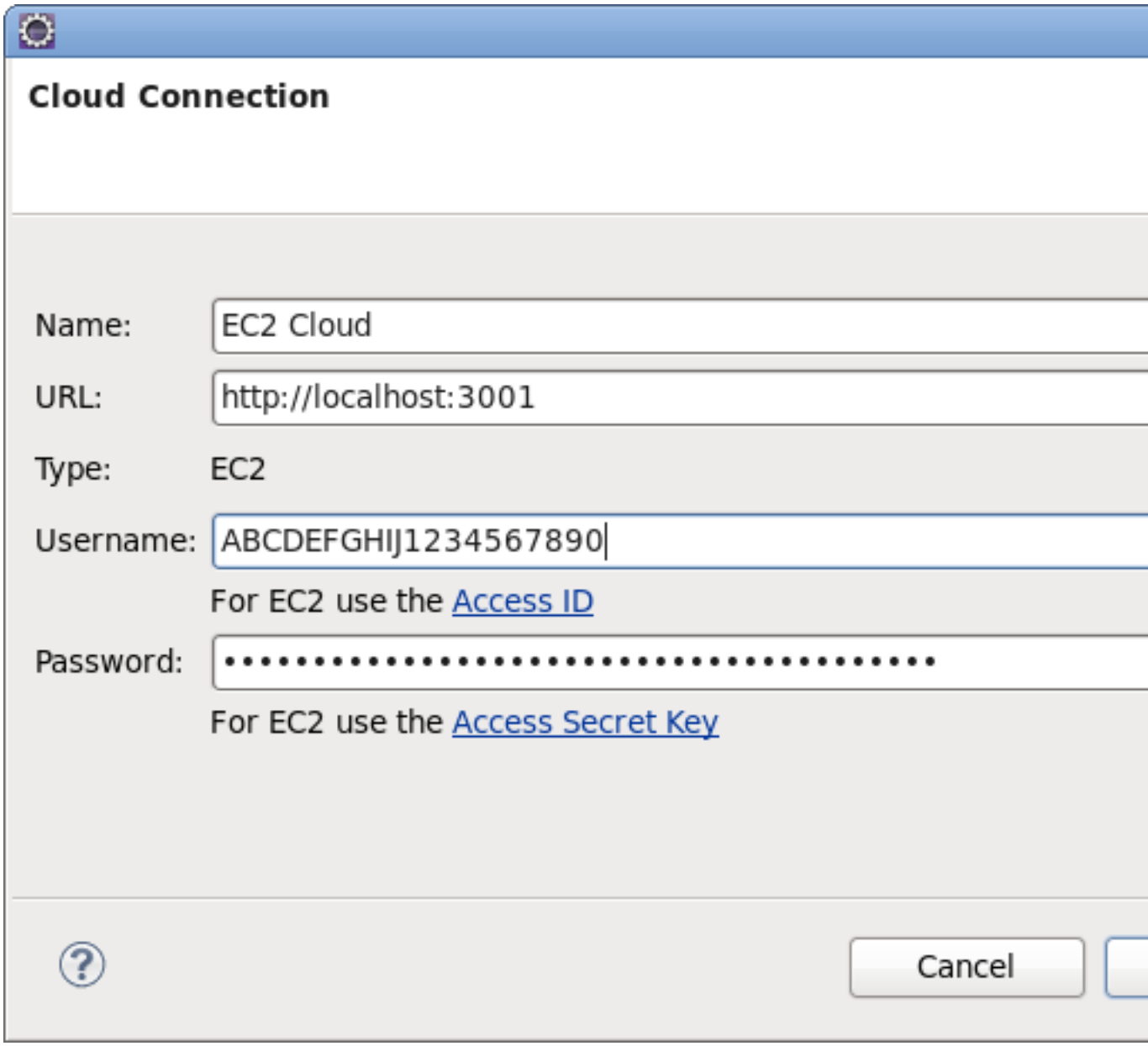

Figure 1.3. Creating the connection

Your new cloud connection will appear in the **Cloud Viewer** using the name you specified in the connection wizard. For information on using your new cloud server connection see *Section 1.3, "Using the Deltacloud perspective"*.

1.2. Add and manage server keys

To access Deltacloud servers, key file authentication is used. Each key represents the person accessing the server and informs the server of their authorization level (a person may have several keys).

Each unique user requires an private key. These keys can be generated by Deltacloud Tools when launching an instance (see *Section 1.3, "Using the Deltacloud perspective"*), using a number of external tools, or provided by a service such as Amazon EC2. Each private key must then be specified in the SSH2 private keys list prior to performing the ssh connection.

Tip

New keys generated by Deltacloud Tools when launching an instance are automatically added to the SSH2 private keys list.

To access the SSH2 private keys list navigate to **Window** → **Preferences** → **General** → **Network Connections** → **SSH2**.

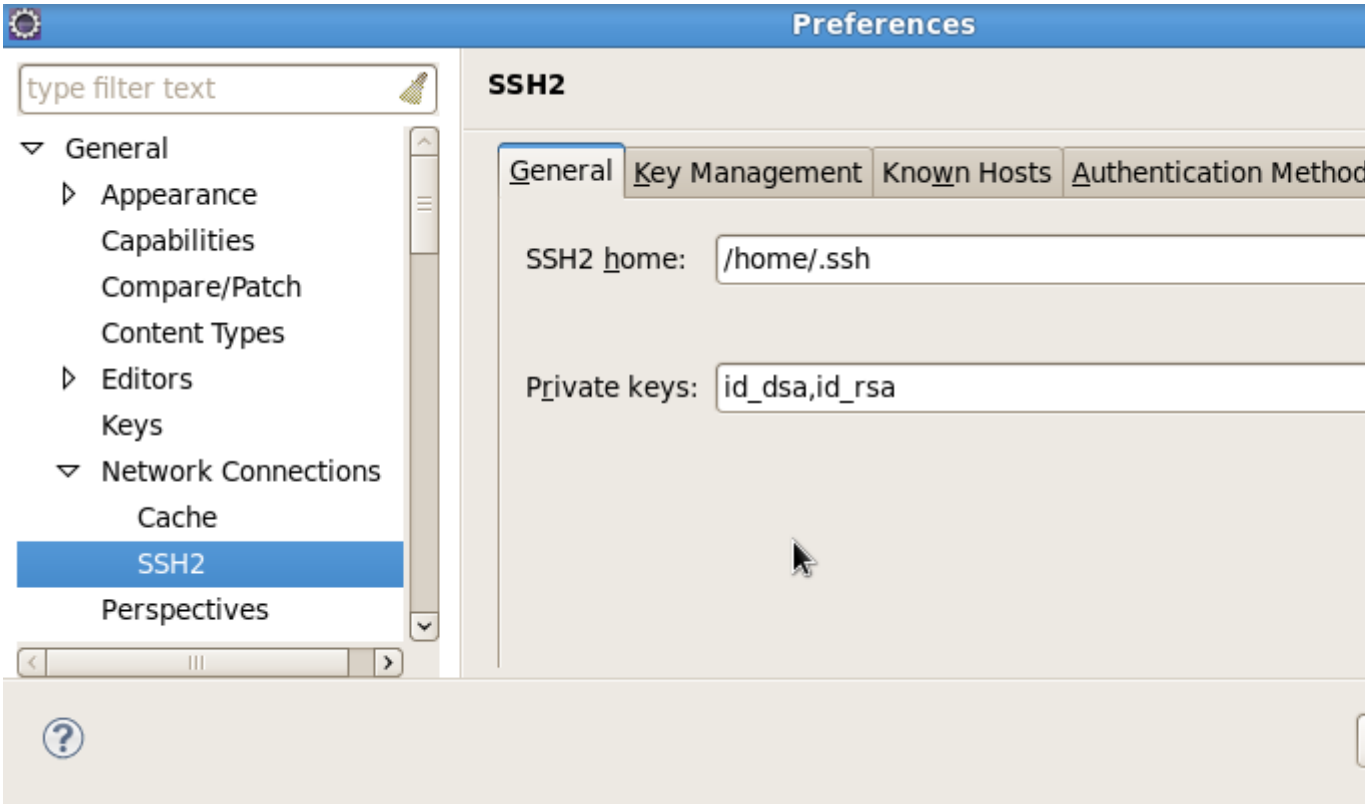

Figure 1.4. Preferences: SSH2

1.3. Using the Deltacloud perspective

The Deltacloud perspective consists of three different views: **Cloud Viewer**, **Images** and **Instances**.

1.3.1. The Cloud Viewer

The **Cloud Viewer** view lists the servers you are connected to, the instances running on each server and the images available on each server. Right-clicking (or control-clicking on Mac OS) on a cloud connection presents you with options to delete a cloud using the **Delete Cloud** option or reload the the cloud view with the **Refresh View** option.

You can also right-click (or control-click on Mac OS) anywhere in the **Cloud Viewer** view and select the **Launch Instance** option to launch a new instance. See *Section 1.3.2, "The Images view"* for more information on launching an instance.

Clicking on a connection name causes details to be shown in the **Properties** view.

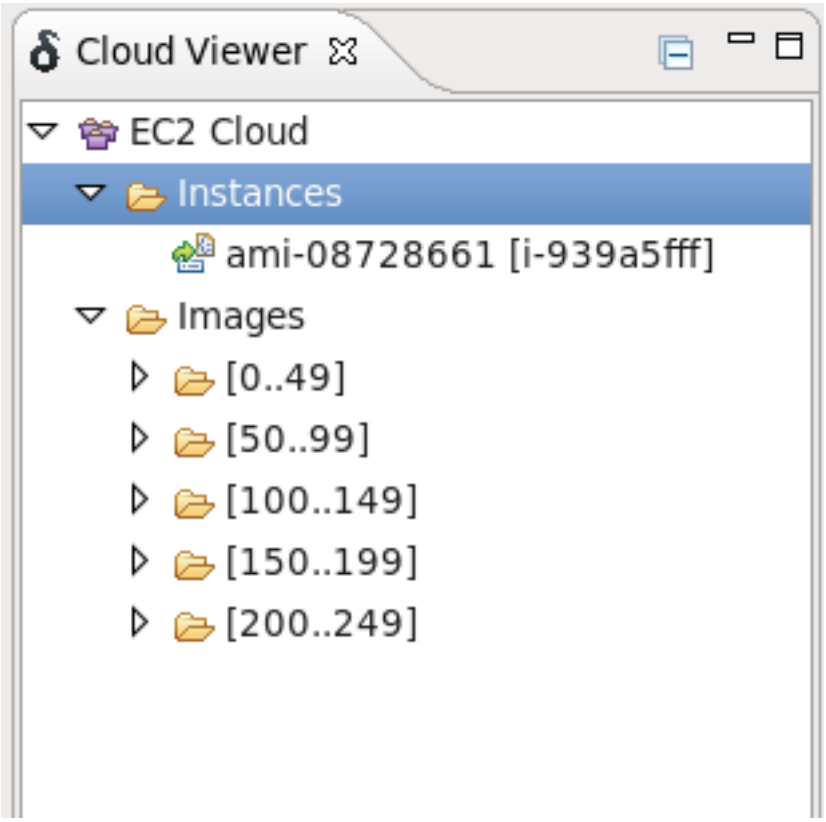

Figure 1.5. Deltacloud perspective: The Cloud Viewer

You can have multiple Deltacloud servers connected at any one time. If you have not yet setup a connection to a Deltacloud server see *Section 1.1, "Connecting to a Deltacloud server"*. You will also require a unique key file for each user who is to have access to the server. To add and manage your key files see *Section 1.2, "Add and manage server keys"*

1.3.2. The Images view

Displayed in the **Images** view is a table of all images for a specified cloud.

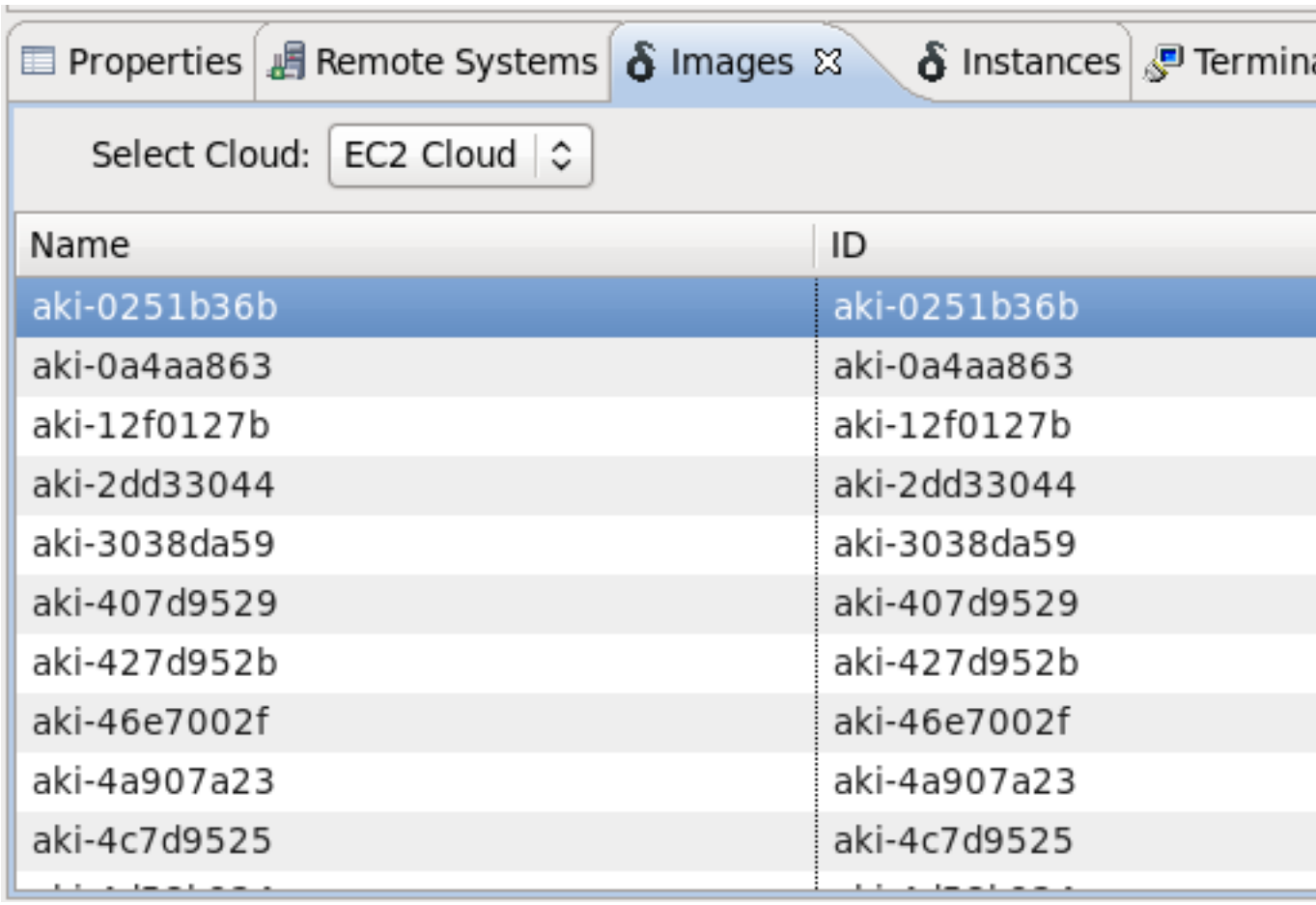

Figure 1.6. Deltacloud perspective: The Images view

By right-clicking (or control-clicking on Mac OS) on an image in the table and selecting **Launch Instance**, a dialog will appear. Define the **Name** of the instance, the **Realm** the instance should appear in, select a predefined **Hardware Profile** and choose a **Key Name** for key file authentication. You can also change the default image by defining the value for the **Image** field, or by clicking the **Find...** button.

User authentication keys are managed for Deltacloud tooling by the **Manage Keys** dialog. When clicking on the **Manage** you will be presented with this dialog. Select one from the list or add a new one by clicking the **New** button. Newly created keys will also be added to the SSH2 key list if they are not already present.

Click the **Next** button to move to the next step.

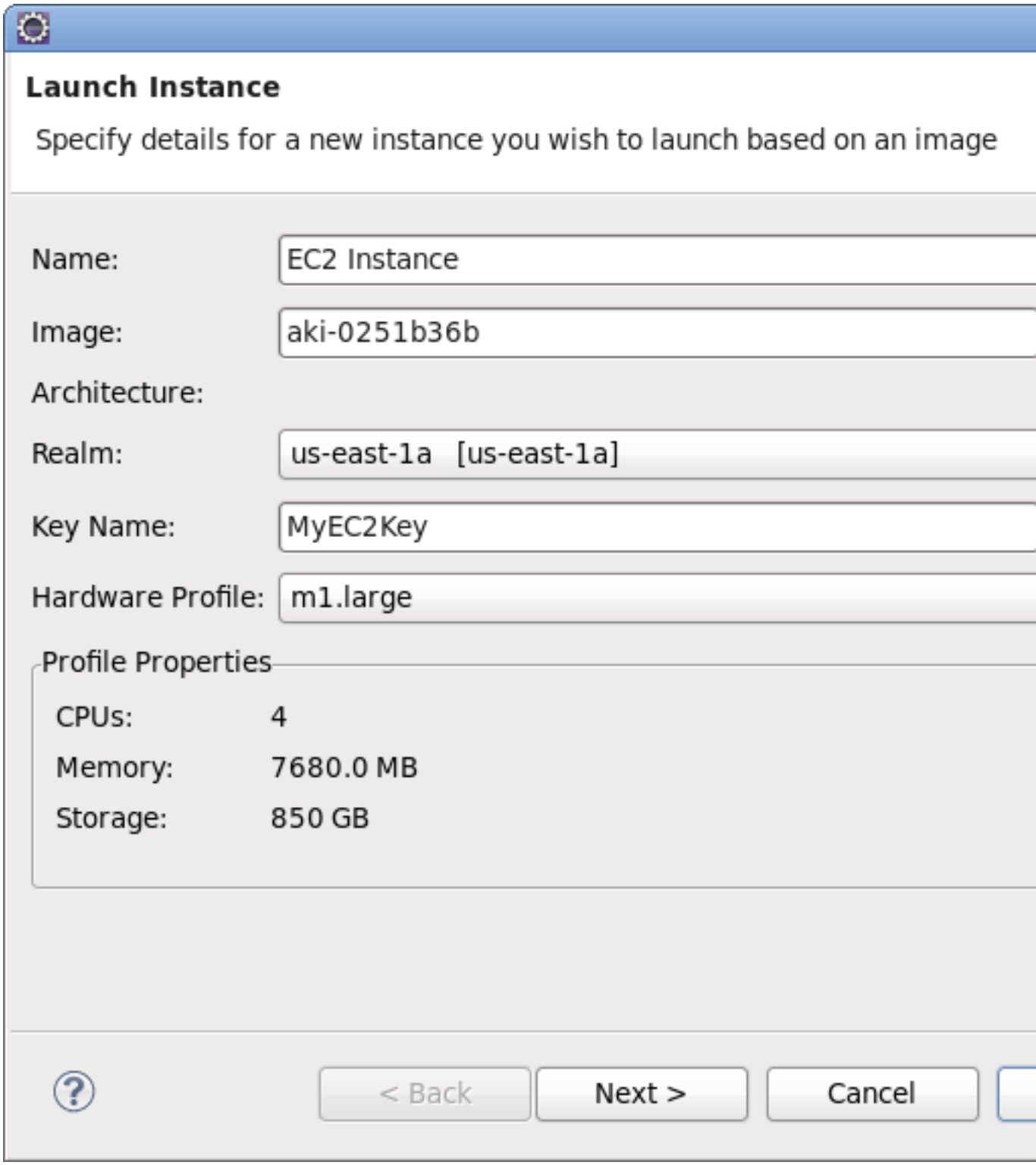

Figure 1.7. Deltacloud perspective: Launching an instance

The next wizard page allows you to explicitly create an Eclipse Remote System Explorer (RSE), which is used to browse the remote filesystem and connect to the instance via an SSH terminal.

You can also create a Web Tools Platform (WTP) server adapter, which will allow you to deploy any WTP compliant web project to the remote instance.

Click the **Finish** button to launch the new instance and any RSE Connections or WTP Adapters that you have defined.

Figure 1.8. Deltacloud perspective: Defining an RSE Connection and a WTP Adapter

1.3.3. The Instances view

Through the **Instances** view you can see all instances for a cloud server while having the functionality to start, stop and restart a selected instance.

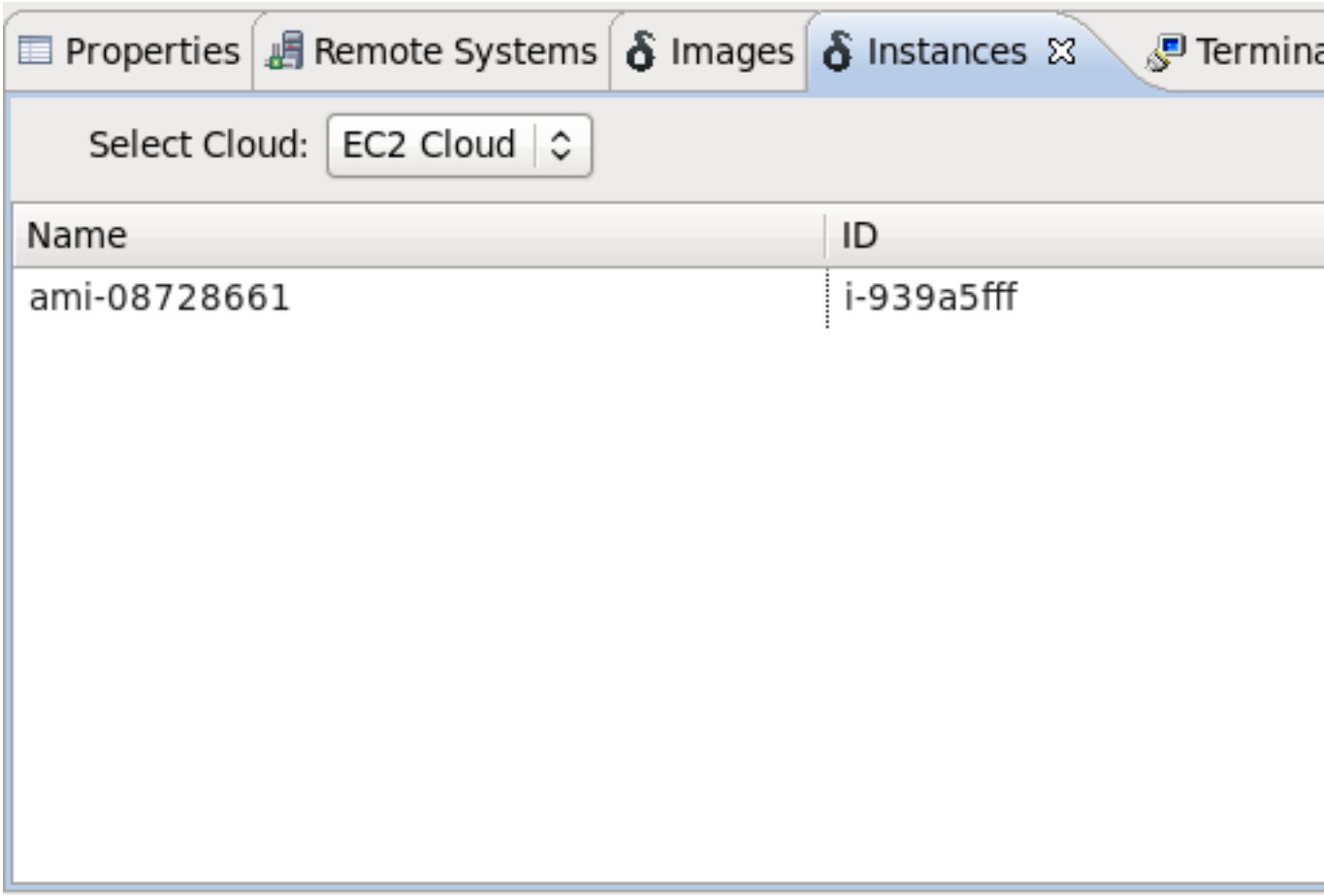

Figure 1.9. Deltacloud perspective: The Instances view

Using the **Remote System Explorer** (*Section 1.4, "Using the Remote System Explorer"*) you can connect to a running instance through the SSH protocol. Accessing a remote instance requires authentication; for an EC2 instance a PEM key file will be used.

Once connected, files on the external instance can be manipulated as if they were on your local machine.

1.4. Using the Remote System Explorer

With the Eclipse **Remote System Explorer** installed, you are able to publish to a remote location and setup additional hosts. You can also start and stop an external server through this perspective and these commands can be customized through the launch configuration.

To deploy to a remote system, toggle between **Local** and **Remote System** in the server editor. For information on the server editor see the *JBoss Server Manager Reference Guide*.

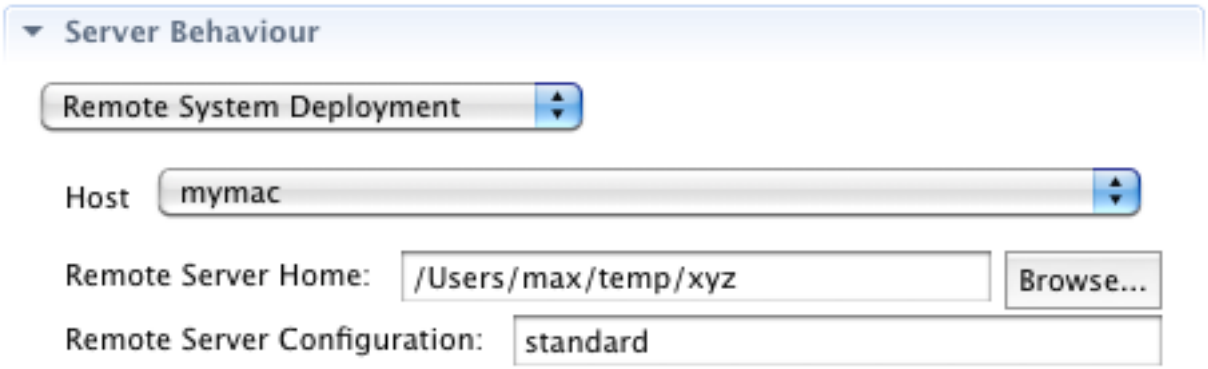

Figure 1.10. Remote system deployment

Appendix A. Revision History

Revision History

Revision 1-0 Mon Jan 10 2011 MatthewCasperson<mcaspers@redhat.com>

General updates

Revision 0-0 Fri Sep 24 2010 IsaacRooskov<irooskov@redhat.com>

Initial creation of book by publican