

JBoss Portal 2.6.5

Quickstart User Guide

Release 2.6.5

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JBoss Portal - Overview

Many IT organizations look to achieve a competitive advantage for the enterprise by improving business productivity and reducing costs. Today's top enterprises are realizing this goal by deploying enterprise portals within their IT infrastructure. Enterprise portals simplify access to information by providing a single source of interaction with corporate information. Although today's packaged portal frameworks help enterprises launch portals more quickly, only JBoss Portal can deliver the benefits of a zero-cost open source license combined with a flexible and scalable underlying platform.

JBoss Portal provides an open source and standards-based environment for hosting and serving a portal's Web interface, publishing and managing its content, and customizing its experience. It is entirely standards-based and supports the JSR-168 portlet specification, which allows you to easily plug-in standards-compliant portlets to meet your specific portal needs. JBoss Portal is available through the business-friendly LGPL [1] open source license and is supported by Red Hat Middleware, LLC Professional Support and Consulting [2]. JBoss support services are available to assist you in designing, developing, deploying, and ultimately managing your portal environment. JBoss Portal is currently developed by Red Hat Middleware, LLC developers and community contributors.

[1] <http://jboss.com/opensource/lgpl/faq>

[2] <http://www.jboss.com/services/index>

The JBoss Portal framework and architecture includes the portal container and supports a wide range of features including standard portlets, single sign-on, clustering and internationalization. Portal themes and layouts are configurable. Fine-grained security administration down to portlet permissions rounds out the security model.

JBoss Portal Resources:

1. JBoss Portal Home Page [3]
2. Forums: User [4] | Design [5] | WSRP [6]
3. Wiki [7]
4. PortletSwap.com portlet exchange [8]
5. Our Roadmap [9]

The JBoss Portal team encourages you to use this guide to install and configure JBoss Portal. If you encounter any configuration issues or simply want to take part in our community, we would love to hear from you in our forums.

[3] <http://labs.jboss.com/jbossportal>

[4] <http://www.jboss.org/index.html?module=bb&op=viewforum&f=215>

[5] <http://www.jboss.org/index.html?module=bb&op=viewforum&f=205>

[6] <http://jboss.org/index.html?module=bb&op=viewforum&f=232>

[7] <http://www.jboss.com/wiki/Wiki.jsp?page=JBossPortal>

[8] <http://www.portletswap.com>

[9] <http://jira.jboss.com/jira/browse/JPOTAL?report=com.atlassian.jira.plugin.system.project:roadmap-panel>

1

Tutorial Forward

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Welcome to the JBoss Portal Quickstart tutorial. In this tutorial, you will:

- Download and unzip the JBoss Portal bundle
- Execute the JBoss Portal
- Interact with the default portal
- Create and edit content in the JBoss Portal
- Manage the JBoss Portal
- Add a new portlet to the JBoss Portal

Before we get started, a couple of notes about this tutorial:

- For those that are not familiar with portals or portlets, please start with this article on portals: <http://java.sys-con.com/read/131819.htm>
- This guide is not intended to show all of the features of JBoss Portal. The intention is to show how to use the basic functionality of JBoss Portal. There is also a user guide and reference guide that will assist you with further use of JBoss Portal.
- This guide was created with JBoss Portal 2.6.2. This guide is expected to be forward compatible with future versions of Portal (although the screenshots may vary slightly).
- JBoss Portal is platform independent, but this guide was developed using a Linux-based platform. This guide should work equally well for Unix/Linux/Windows installations because JBoss Portal is 100% Pure Java. Obviously, you may need use the run.bat instead of run.sh and use forward slashes instead of backslashes, etc.

2

Installation

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2.1. Downloading and Installing

The JBoss Portal bundle contains everything needed to execute JBoss Portal with the exception of Java itself. The JBoss Application Server in the JBoss Portal bundle requires either JDK 1.5 or JDK 1.4. If you do not have one of these on the machine that JBoss Portal will be running on, please download it here: http://java.sun.com/javase/downloads/index_jdk5.jsp. Once you have Java installed, you are ready to download the JBoss Portal bundle. The following link has the list of downloads for JBoss Portal: <http://labs.jboss.com/portal/jbossportal/download> [2]. Download the "JBoss Portal + JBoss AS" bundle by clicking the "Download" link on the right of the page. From here, you will need to unzip it to your machine (Note: If you do not have a ZIP utility, please go to this link to get it: <http://sourceforge.net/projects/sevenzzip> [3]). Once you have unzipped it, you should have a directory structure with the following folders under, jboss-portal-2.6.2-GA:

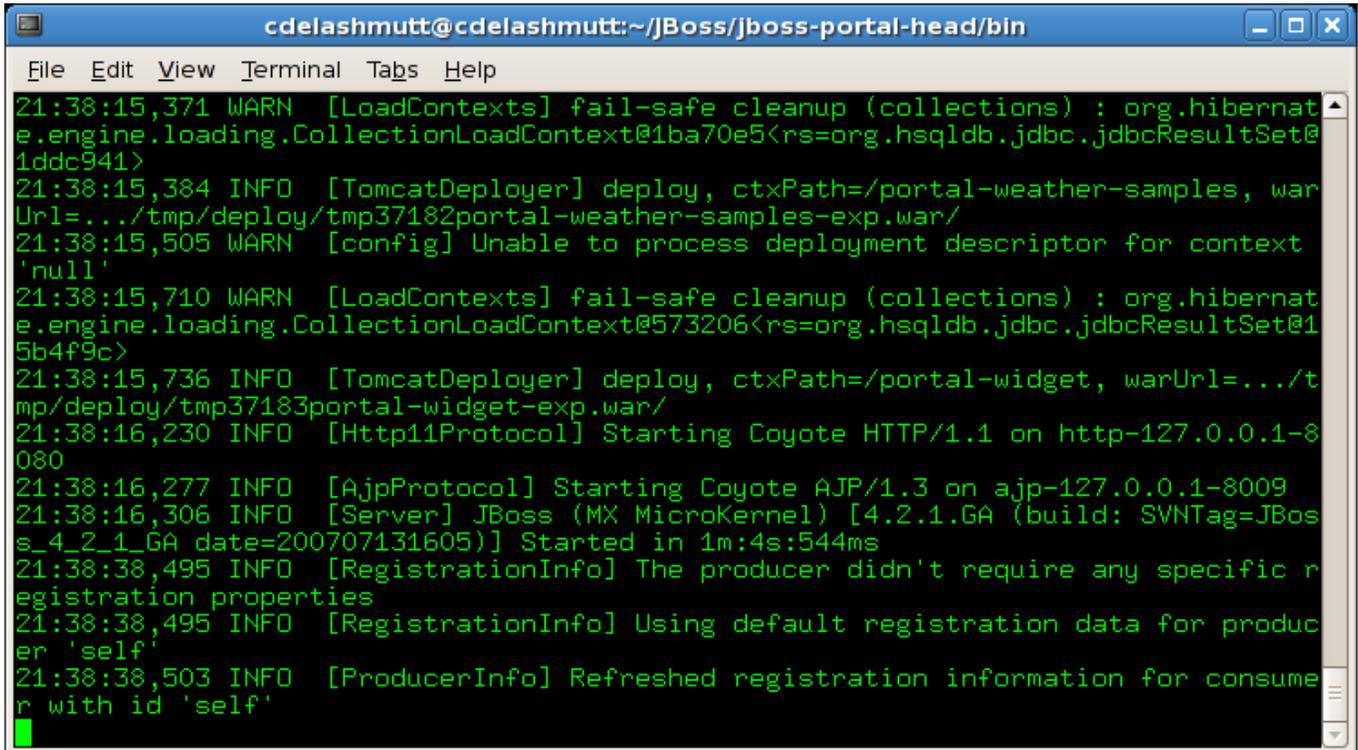
- **bin** - Contains the startup/shutdown commands for the JBoss Portal
- **client** - Contains client libraries
- **docs** - Contains documentation for the JBoss Portal
- **lib** - Contains libraries
- **server** - Contains JBoss Application Server configuration and the jboss-portal.sar file in the "deploy" directory

2.2. Starting JBoss Portal

Go to the bin directory and double click on the run.sh (or run.bat). A command window should come up displaying the startup messages for JBoss Portal (Figure 1).

[2] <http://labs.jboss.com/portal/jbossportal/download>

[3] <http://sourceforge.net/projects/sevenzzip/>

A screenshot of a terminal window titled "cdelashmutt@cdelashmutt:~/JBoss/jboss-portal-head/bin". The terminal displays a series of log messages in green text on a black background. The messages include warnings about Hibernate cleanup, deployment of "portal-weather-samples" and "portal-widget" WAR files, and information about starting Coyote HTTP/1.1 and AJP/1.3 protocols. The server is identified as JBoss (MX MicroKernel) [4.2.1.GA] and started in 1m:4s:544ms. The output concludes with registration information for a producer and consumer.

```
cdelashmutt@cdelashmutt:~/JBoss/jboss-portal-head/bin
File Edit View Terminal Tabs Help
21:38:15,371 WARN [LoadContexts] fail-safe cleanup (collections) : org.hibernate.engine.loading.CollectionLoadContext@1ba70e5<rs=org.hsqldb.jdbc.jdbcResultSet@1ddc941>
21:38:15,384 INFO [TomcatDeployer] deploy, ctxPath=/portal-weather-samples, warUrl=../tmp/deploy/tmp37182portal-weather-samples-exp.war/
21:38:15,505 WARN [config] Unable to process deployment descriptor for context 'null'
21:38:15,710 WARN [LoadContexts] fail-safe cleanup (collections) : org.hibernate.engine.loading.CollectionLoadContext@573206<rs=org.hsqldb.jdbc.jdbcResultSet@15b4f9c>
21:38:15,736 INFO [TomcatDeployer] deploy, ctxPath=/portal-widget, warUrl=../tmp/deploy/tmp37183portal-widget-exp.war/
21:38:16,230 INFO [Http11Protocol] Starting Coyote HTTP/1.1 on http-127.0.0.1-8080
21:38:16,277 INFO [AjpProtocol] Starting Coyote AJP/1.3 on ajp-127.0.0.1-8009
21:38:16,306 INFO [Server] JBoss (MX MicroKernel) [4.2.1.GA (build: SVNTag=JBoss_4_2_1_GA date=200707131605)] Started in 1m:4s:544ms
21:38:38,495 INFO [RegistrationInfo] The producer didn't require any specific registration properties
21:38:38,495 INFO [RegistrationInfo] Using default registration data for producer 'self'
21:38:38,503 INFO [ProducerInfo] Refreshed registration information for consumer with id 'self'
```

Figure 1: Portal console

Note

If the database tables do not exist, you may see a lot of messages the first time the portal runs and it creates the tables. This is not an error.

Now, bring up your web browser and go to the following URL: <http://localhost:8080/portal> . You should see the default page for JBoss Portal (Figure 2).

The screenshot shows the JBoss Portal interface. At the top, there is a navigation bar with 'Home', 'News', 'Test', 'TestWithAjax', and 'Weather' links, and a 'Login' link on the right. Below the navigation bar is a 'Greetings!' section with three numbered steps: 1. Demo (with a star icon), 2. Download (with a download icon), and 3. Accessorize (with a globe icon). Below these steps, there is a text block stating: 'This is a basic installation of **JBoss Portal 2.6.2-GA**. You may log in at any time, using the *Login* link at the top-right of this page, with the following credentials: **user/user** or **admin/admin**'. Below this, there is a link to 'online documentation'. To the right of the 'Greetings!' section is a large banner with the text 'Unbound Opportunity...' and 'JBoss Portal 2.6' over a background image of a person on a mountain. Below the banner is the JBoss logo and a paragraph describing JBoss Portal as an open source platform. Below the banner and logo are three columns: 'Support Services' (JBoss Inc. offers various support services...), 'PortletSwap' (Portletswap.com is an open community...), and 'Project Information' (Learn more about the JBoss Portal project...).

JBossPortal Login

Home News Test TestWithAjax Weather

Greetings!

1 **Demo.** 2 **Download.** 3 **Accessorize.**

This is a basic installation of **JBoss Portal 2.6.2-GA**. You may log in at any time, using the *Login* link at the top-right of this page, with the following credentials:
user/user or **admin/admin**

If you are in need of guidance with regards to navigating, configuring, or operating the portal, please view our online documentation.

User portlet

Welcome Register

You are currently not logged in.

You can create an account.

Unbound Opportunity...
JBoss Portal 2.6

JBoss
 a division of **Red Hat**

JBoss Portal provides an open source platform for hosting and serving a portal Web interface, publishing and managing its content, and customizing its experience. While most packaged Portal frameworks help enterprises launch Portals more quickly, only JBoss Portal delivers the benefits of a zero-cost open source license combined with a flexible and scalable underlying platform.

Support Services
 JBoss Inc. offers various support services tailored to fit your needs. Explore support and service options for JBoss Portal.

PortletSwap
 Portletswap.com is an open community sponsored by JBoss, Inc. to facilitate the exchange of portlets and layouts for use in JBoss Portal.

Project Information
 Learn more about the JBoss Portal project, on-going development, open issues, and our user and developer communities.

Thank you for downloading and deploying JBoss Portal. We hope your enjoy working with it as much as we enjoy developing it!

Baci e abbracci.

Figure 2. Default page for the JBoss Portal.

Portal Terminology

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Xi Huang <xhuang@redhat.com>

JBoss Portal is made up of portals, portal containers, portal pages, and portlets. What are these things? Here are some definitions:

- **Portal:** Hosts the presentation layer for personalization, single sign on and content aggregation.
- **Portlet Container:** A Portal can host multiple portlet containers and each portlet container has its own runtime environment.
- **Portal Page:** Aggregation of portlets, organized and displayed on a single page.
- **Portlet:** A portlet is a Java technology based web component, managed by a portlet container, that processes requests and generates dynamic content.
- **Portlet Instance:** A portlet instance can be placed on multiple pages and will show the same state.

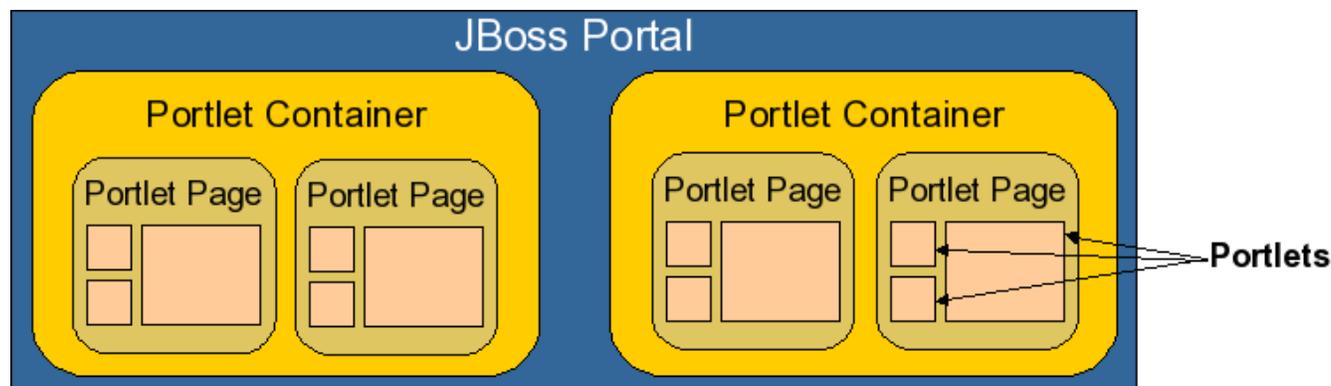


Figure 3. Portal Definition Diagram.

Now let's look at that default portal page again with these terms in mind (Figure 4).

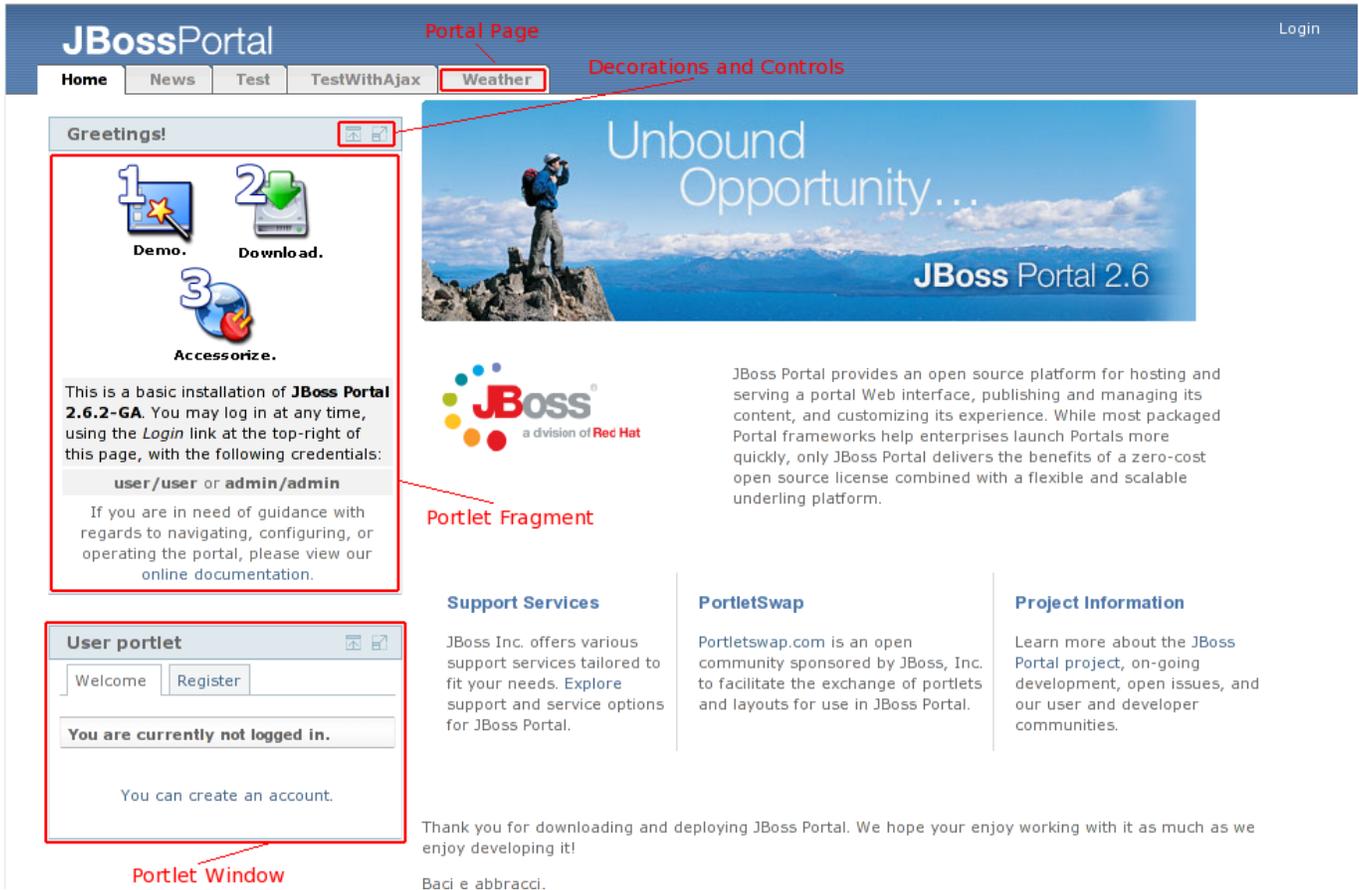


Figure 4. The default portal page with components highlighted.

Now we see that the default portal we are looking at has five portal pages, and the default portal page has three portlets on it (greetings, user, and content view). In addition, we see that each portlet window is made up of decorations/controls and a portlet fragment (the content view does not have any decoration/controls). Each portlet can represent some fragment of information that you want to present to users. By having multiple portlets on a portal page, we can aggregate information from the portlets into a single browser window.

4

Interaction with the Portal

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4.1. Window States

Each portlet in the portal page can be interacted with individually. Let's interact with a couple of portlets, and see the results. Click on the minimize icon on the "Greeting" portlet. The portlet is then minimized (Figure 5):

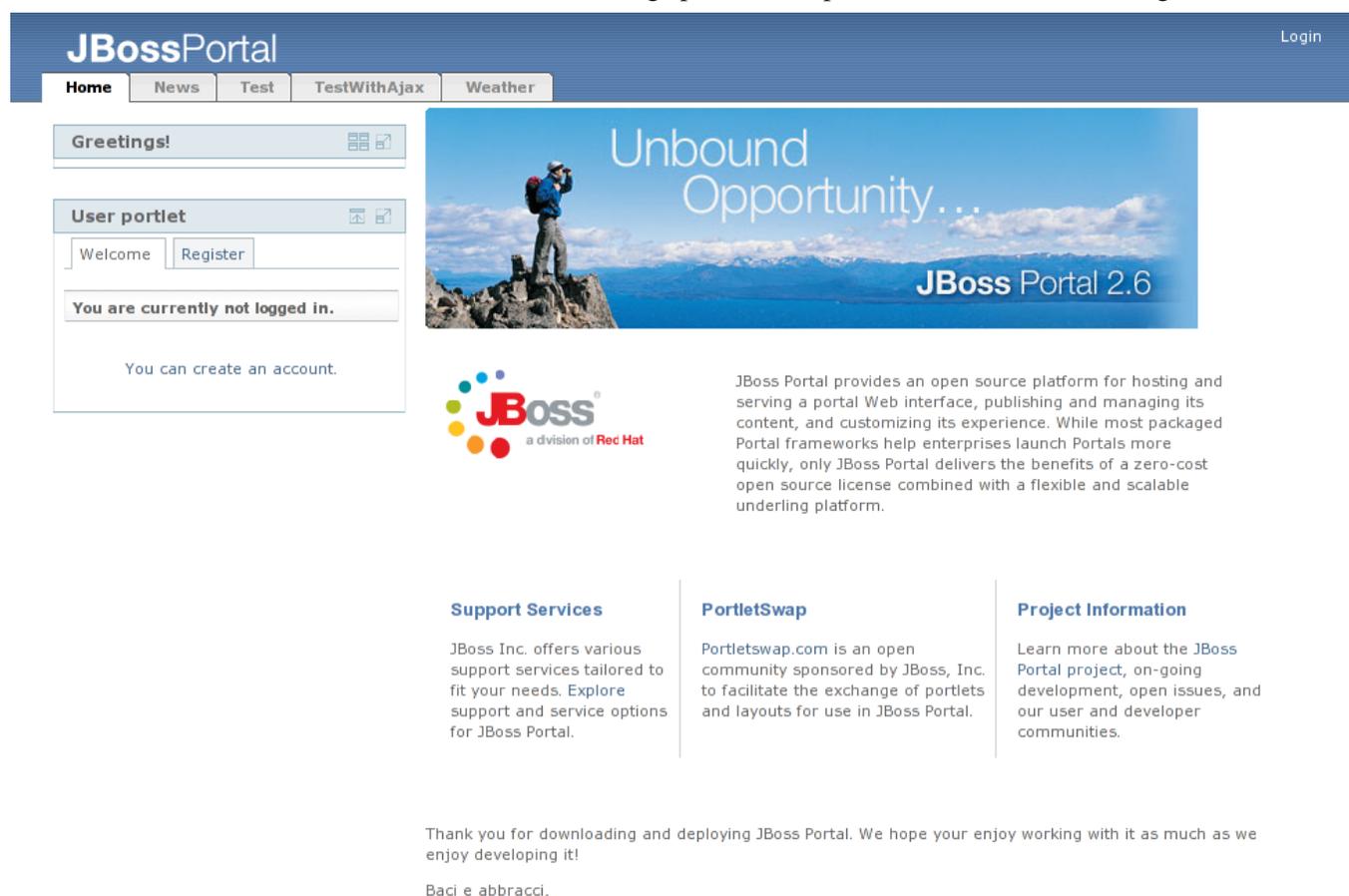


Figure 5. Default page with portlet minimized.

Click on the maximize button for that same portlet, and it now takes the entire page (Figure 6). Click on the "resize" icon to return the portlet to its starting size.

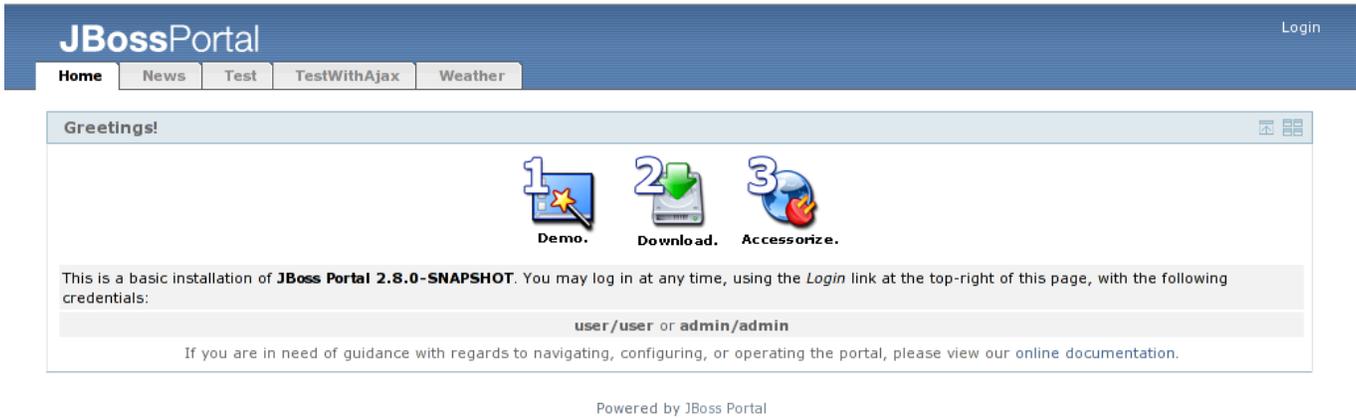


Figure 6. Portal with portlet maximized.

4.2. User Creation

Let's create a user for the portal. Click on the "Register" tab in the user portlet. The basic create user view now shows in the user portlet. Enter the information as shown in Figure 7 (password is starter). Once you have clicked "Submit" button, the user creation confirmation screen will show up (Figure 8). Validate the user information and then click on the "Submit" button to finish the creation of the new user.

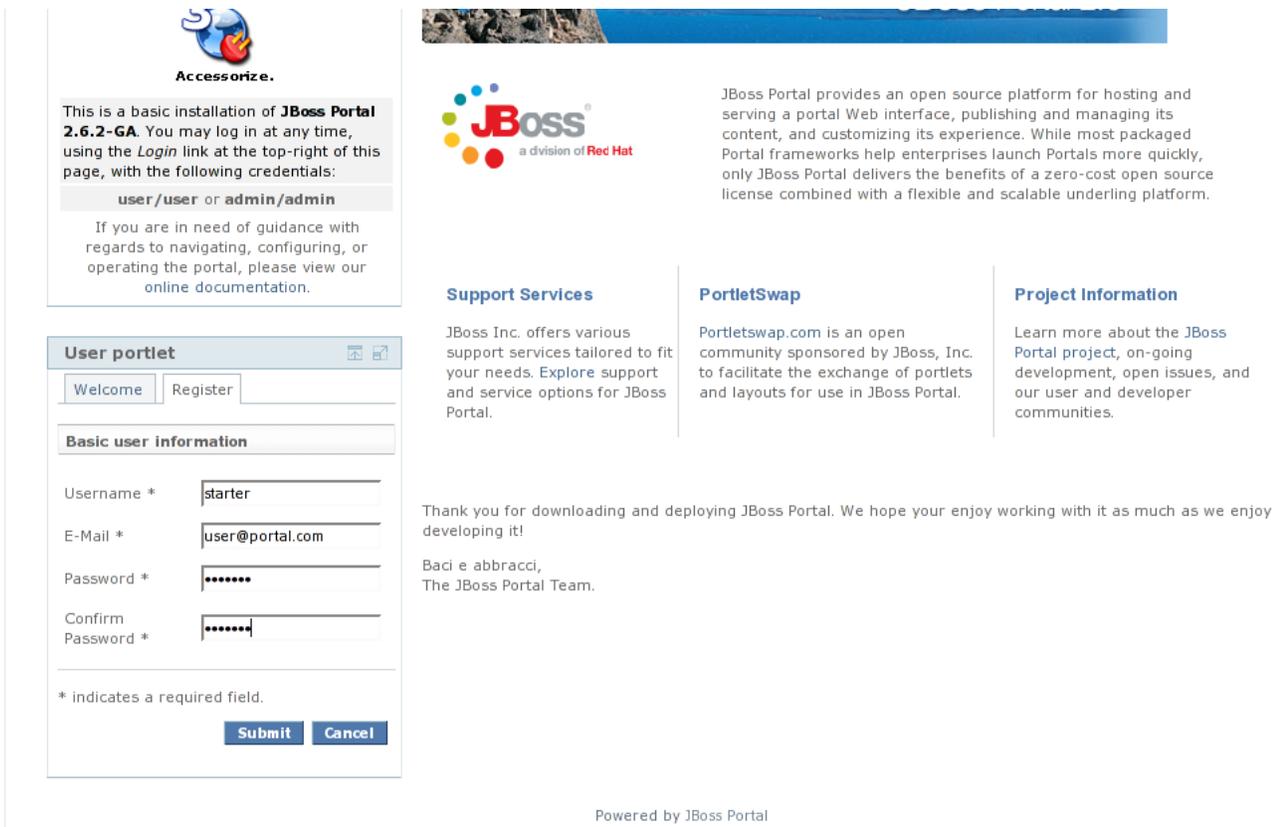


Figure 7. The Create user view in the user portlet.

1 Demo. 2 Download. 3 Accessorize.

This is a basic installation of **JBoss Portal 2.6.2-GA**. You may log in at any time, using the *Login* link at the top-right of this page, with the following credentials:

user/user or **admin/admin**

If you are in need of guidance with regards to navigating, configuring, or operating the portal, please view our online documentation.

User portlet

Welcome Register

Confirmation

Username starter
E-Mail user@portal.com
Password *****

Edit Submit Cancel

Opportunity...
JBoss Portal 2.6

JBoss
a division of Red Hat

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Learn more about the JBoss Portal project, on-going development, open issues, and our user and developer communities.

Thank you for downloading and deploying JBoss Portal. We hope your enjoy working with it as much as we enjoy developing it!

Baci e abbracci,
The JBoss Portal Team.

Powered by JBoss Portal

Figure 8. The user creation confirmation view.

This example models a user enrolling themselves in the portal security repository, and at this point the user could login and would have the default security role for the portal. Administrators can also control user administration from the Admin portion of the portal for more advanced user enrollment options. This will be covered in a later section.

4.3. Administrator Login

Now, click "Login". The login page will show (Figure 9). Log in with username and password of "admin"

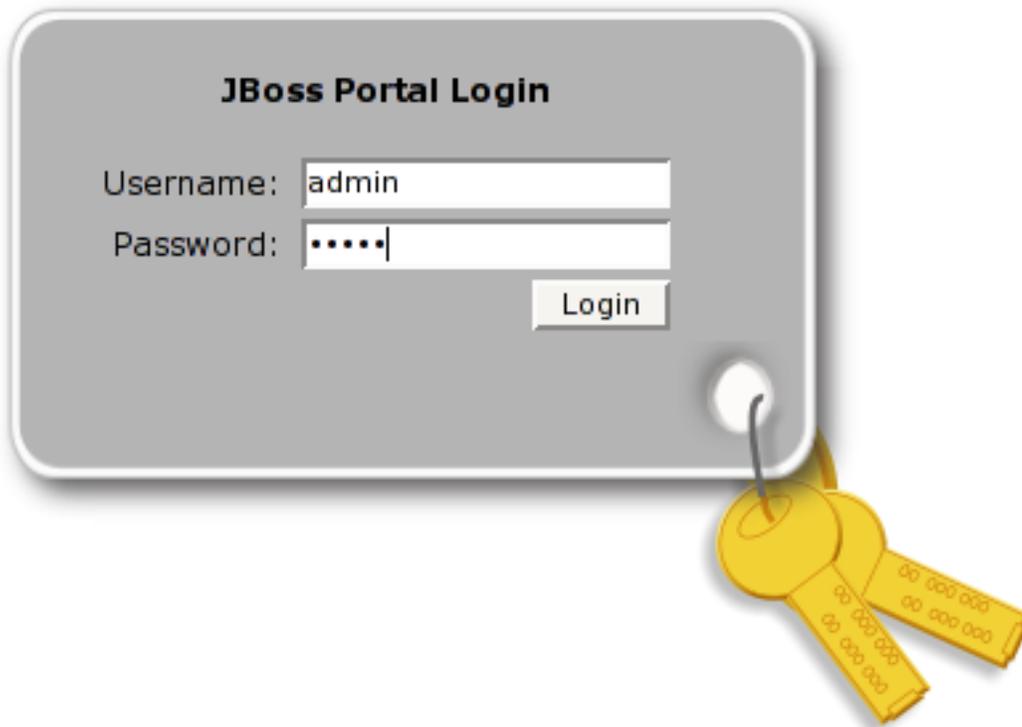


Figure 9. Portal login page.

Click "Login", and the portal will now show us a link to the Admin portal (top-right) (Figure 10).

A screenshot of the JBoss Portal home page. The top navigation bar includes "Home", "News", "Test", "TestWithAjax", and "Weather". On the right, it says "Logged in as: admin" and has links for "Dashboard", "Admin" (highlighted with a red box), and "Logout". The main content area features a "Greetings!" section with numbered steps: "1 Demo.", "2 Download.", and "3 Accessorize.". Below this is a large banner for "JBoss Portal 2.6" with the text "Unbound Opportunity...". The JBoss logo is visible, along with a description of the portal as an open source platform. There are three columns of links: "Support Services", "PortletSwap", and "Project Information". A "User portlet" section shows "View profile" and "Edit profile" buttons, and a "View profile" link. Below that, it displays "Username: admin" and "E-Mail: admin@portal.com". At the bottom, there is a thank you message and the text "Bari e abbracci".

Figure 10. default portal page for administrator.

4.4. Content Management

Now that we are logged in, there is a portal page available for the content management and portal administration. Click on the "Admin" link, and then on the "CMS" tab. The CMS Admin portal page displays (Figure 11).

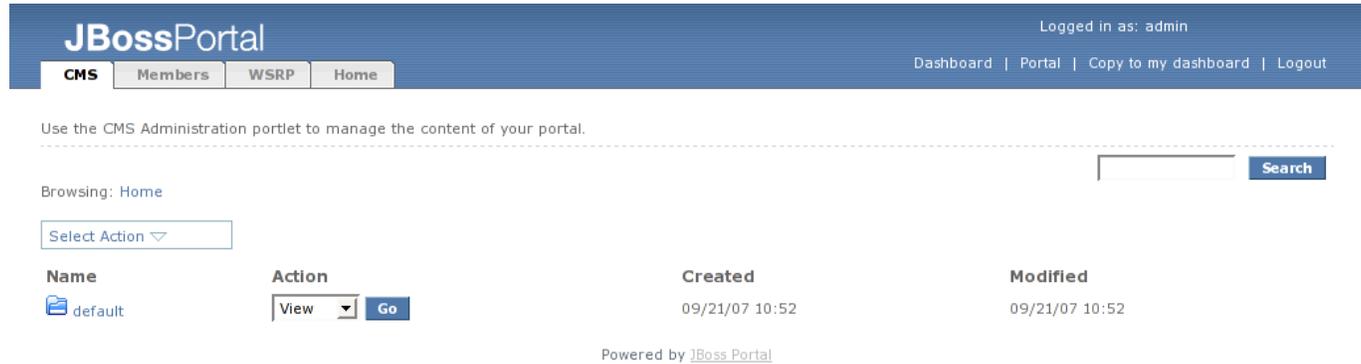


Figure 11. CMS Admin portal page.

The content management portlet allows users to create/delete files and folders, edit text/HTML files, and batch upload files. These files are then viewable through the content view portlet. HTML files can refer to other HTML files through the directory structure in the CMS. Different groups or departments in an organization can have their own area (directory structure) for the files/HTML pages they want to share on the Portal. Let's batch upload a set of HTML pages with images and style sheets. Mouse-over the "Select Action" dropdown menu, and click on the upload archive link. The upload archive view shows (Figure 12).



Figure 12. Upload Archive view.

Note

Please use the quickstart.zip for the batch upload. You may also download it from here [1].

You can choose the destination folder for the upload by selecting a folder from the tree control on the left side of the portlet. Then you can select the language of the files being uploaded from the drop down list. Finally, click "Browse" to find the file you want to upload (Figure 13).

[1] <http://docs.jboss.org/jbportal/v2.6/quickstartuser/quickstart.zip>

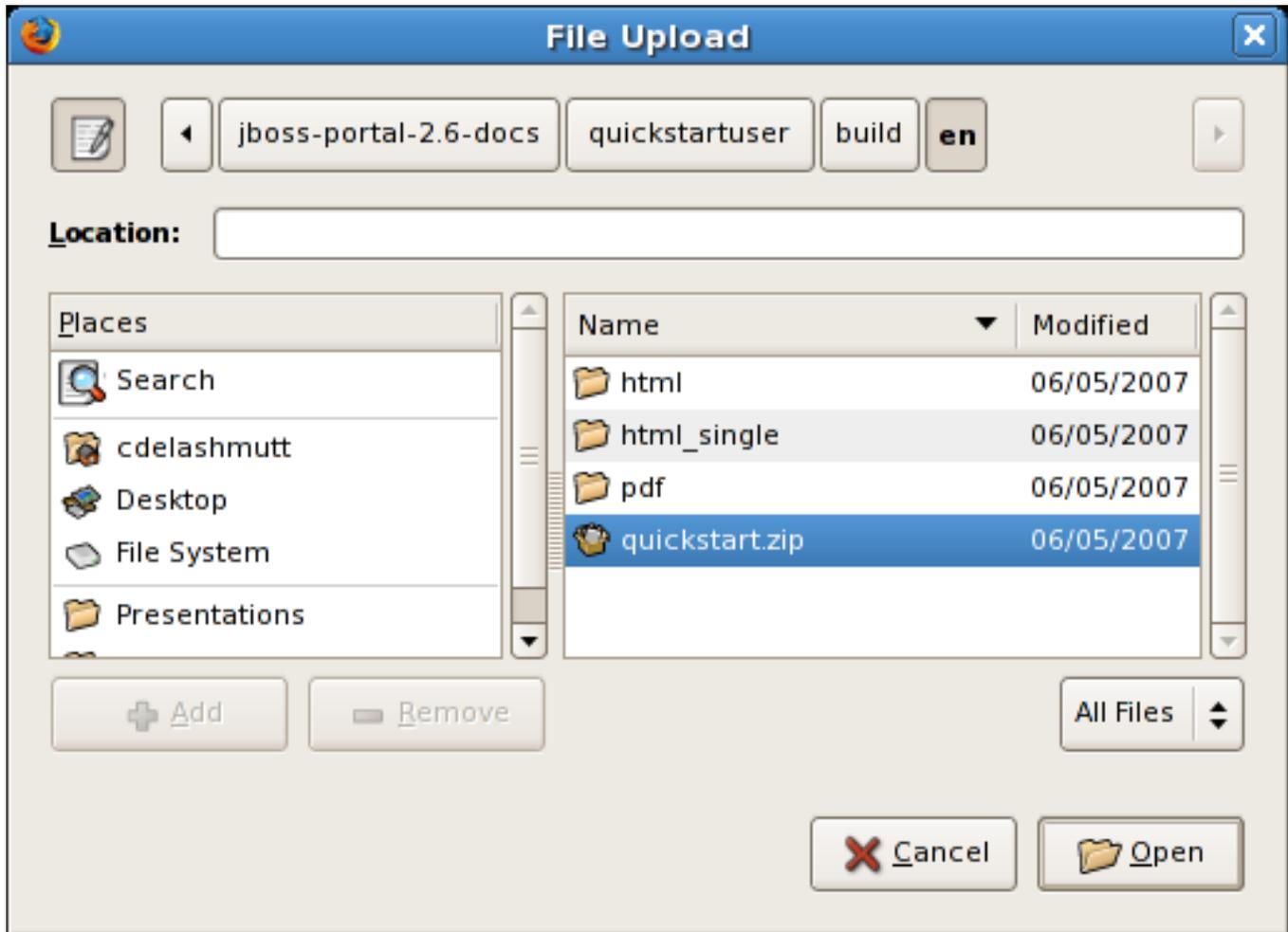


Figure 13. Choose file to batch upload.

Click on the quickstart.zip that you downloaded earlier (see note above) and select "Open". Finally, click the "Upload" button. The quickstart.zip file will be uploaded, extracted into the content repository, and the files and directories will now appear in the content management structure (see the new "quickstart" directory in Figure 14). This process may take a minute.

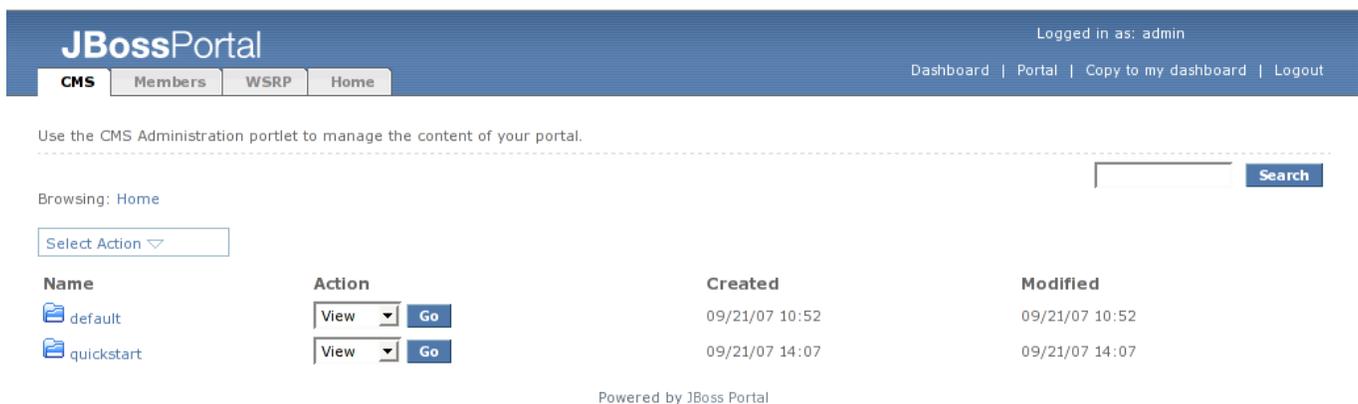


Figure 14. New quickstart directory shows in content management repository.

Click on the quickstart link to see the HTML files and sub-directories that were uploaded (Figure 15). Click on the "Home" link from the breadcrumbs at the top of the portlet to return to the top directory of the content manager repository (back to Figure 14).

JBossPortal Logged in as: admin

[Dashboard](#) | [Portal](#) | [Copy to my dashboard](#) | [Logout](#)

Use the CMS Administration portlet to manage the content of your portal.

Browsing: [Home](#) > quickstart

Select Action ▾

Name	Action	Created	Modified
images	View ▾ Go	09/21/07 14:07	09/21/07 14:07
css	View ▾ Go	09/21/07 14:07	09/21/07 14:07
portalterminology.html	View ▾ Go	09/21/07 14:07	09/21/07 14:07
overview.html	View ▾ Go	09/21/07 14:07	09/21/07 14:07
interaction.html	View ▾ Go	09/21/07 14:07	09/21/07 14:07
installation.html	View ▾ Go	09/21/07 14:07	09/21/07 14:07
index.html	View ▾ Go	09/21/07 14:07	09/21/07 14:07
deployportlet.html	View ▾ Go	09/21/07 14:07	09/21/07 14:07
fin.html	View ▾ Go	09/21/07 14:07	09/21/07 14:07
forward.html	View ▾ Go	09/21/07 14:07	09/21/07 14:07

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Figure 15. HTML files and sub-directories that were uploaded into quickstart directory shows in content management repository.

Let's edit the default page to contain a link to our new pages. Clicking on the default link, we can see two directories, as well as three HTML files (Figure 16).

JBossPortal Logged in as: admin

[Dashboard](#) | [Portal](#) | [Copy to my dashboard](#) | [Logout](#)

Use the CMS Administration portlet to manage the content of your portal.

Browsing: [Home](#) > default

Select Action ▾

Name	Action	Created	Modified
images	View ▾ Go	09/21/07 10:52	09/21/07 10:52
private	View ▾ Go	09/21/07 10:52	09/21/07 10:52
index.html	View ▾ Go	09/21/07 10:52	09/21/07 10:52
project.html	View ▾ Go	09/21/07 10:52	09/21/07 10:52
support.html	View ▾ Go	09/21/07 10:52	09/21/07 10:52

Powered by JBoss Portal

Figure 16. Default directory listing.

Click on the index.html link. The file browser will show the versions of this file (Figure 17).

The screenshot shows the JBoss Portal CMS Administration interface. At the top, the JBossPortal logo is on the left, and the user is logged in as 'admin'. Navigation tabs include CMS, Members, WSRP, and Home. On the right, there are links for Dashboard, Portal, Copy to my dashboard, and Logout. Below the navigation, a message states: 'Use the CMS Administration portlet to manage the content of your portal.' The current page is identified as 'Browsing: Home > default > index.html'. A 'Select Action' dropdown menu is visible. A table lists the file details:

Type	Size	Version	Created	Modified	Title
text/html	2kb	1.0	09/21/07 10:52	09/21/07 10:52	JBoss Portal

At the bottom of the table area, it says 'Powered by JBoss Portal'.

Figure 17. Version view for index.html.

To edit this HTML file, click on the "text/html" link. The WYSIWYG editor view will appear (Figures 18). Click on the maximize icon in the upper right corner of the WYSIWYG editor if needed to make the editor portlet take up the entire page. Note: The WYSIWYG editor is dependent on browser. Some browsers show a box to enter HTML.

The screenshot shows the 'Edit File' interface for the file /default/index.html. It includes a metadata section with the following details:

- Editing File: /default/index.html
- Description: JBoss Portal
- Title: JBoss Portal
- Language: English
- Make "Live":
- Version: 1.0
- WYSIWYG Editor:

Below the metadata, there is a warning message: 'Links to resources within this portal should be absolute. For example: A link to an image located in default/images/back.gif should be typed in exactly as shown here. Do not prefix a slash (/) to the path of the resource. You can verify the link is correct by clicking on the preview button in the editor.'

The main editing area contains a preview of the page content, which includes a banner image with the text 'Unbound Opportunity...' and 'JBoss Portal 2.6'. Below the banner is the JBoss logo and a paragraph of text: 'JBoss Portal provides an open source platform for hosting and serving a portal Web interface, publishing and managing its content, and customizing its experience. While most packaged Portal frameworks help enterprises launch Portals more quickly, only JBoss Portal delivers the benefits of a zero-cost open source license combined with a flexible and scalable underlying platform.'

At the bottom of the editor, there is a rich text editor toolbar with various icons for text formatting, alignment, and insertion.

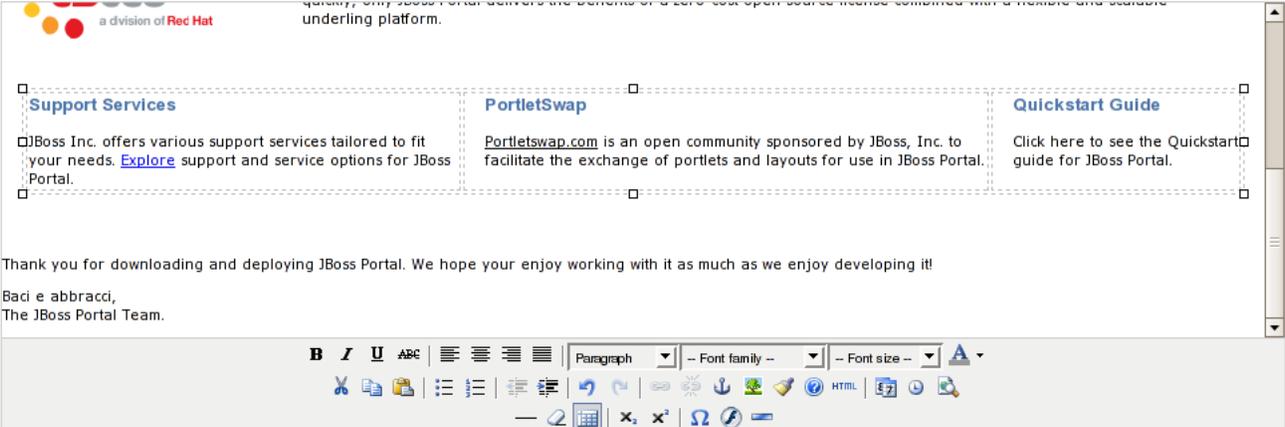
Figure 18. Content editor view.

HTML pages can be edited through this view. Let's change this page to point to our uploaded pages. Change the section title next to the PortletSwap table cell from "Project Information" to "Quickstart Guide" and change the text following the heading to be "Click here to see the Quickstart guide for JBoss Portal.". The updated text is in Figure 19.

Edit File

Editing File: /default/index.html
 Description: JBoss Portal
 Title: JBoss Portal
 Language: English
 Make "Live":
 Version: 1.0
WYSIWYG Editor:

i Links to resources within this portal should be absolute. For example: A link to an image located in default/images/back.gif should be typed in exactly as shown here. Do not prefix a slash (/) to the path of the resource. You can verify the link is correct by clicking on the preview button in the editor.



The screenshot shows the WYSIWYG editor interface. At the top, there are fields for file information and a checked 'WYSIWYG Editor' checkbox. Below is a warning icon and text about absolute links. The main content area displays three portlets with dashed borders and handles:

- Support Services:** JBoss Inc. offers various support services tailored to fit your needs. [Explore](#) support and service options for JBoss Portal.
- PortletSwap:** [Portletswap.com](#) is an open community sponsored by JBoss, Inc. to facilitate the exchange of portlets and layouts for use in JBoss Portal.
- Quickstart Guide:** Click here to see the Quickstart guide for JBoss Portal.

Below the portlets, there is a thank you message and a signature: "Thank you for downloading and deploying JBoss Portal. We hope your enjoy working with it as much as we enjoy developing it! Baci e abbracci, The JBoss Portal Team." At the bottom, a rich text editor toolbar is visible with options for bold, italic, underline, text color, background color, font family, font size, bulleted list, numbered list, link, unlink, insert image, insert table, and undo/redo.

Figure 19. Updated text in HTML page.

Now let's create the link that will point to the index.html page in the quickstart directory. Select the "Click here" text under Portal Documentation, then on the edit link button (it looks like a chain). The insert/edit link window appears. Change the Link URL to "quickstart/index.html" (Figure 20).

General | Popup | Events | Advanced

General properties

Link URL:

Anchors: ▼

Target: ▼

Title:

Class: ▼

Update **Cancel**

Figure 20. Insert/edit link window with updated link URL

Click "Insert" button to create the link. Then click "Create" button at the bottom of the portlet window to create the new version of the HTML file. The CMS Administration view shows again with the new 1.1 version shown (Figure 21). The check icon next to the version number shows this is the live version.

JBossPortal Logged in as: admin

CMS | Members | WSRP | Home Dashboard | Portal | Copy to my dashboard | Logout

Use the CMS Administration portlet to manage the content of your portal.

Browsing: Home > default > index.html

Select Action ▼

Type	Size	Version	Created	Modified	Title
text/html	2kb	1.0	09/21/07 10:52	09/21/07 10:52	JBoss Portal
text/html	2kb	1.1	09/21/07 14:15	09/21/07 14:15	JBoss Portal

Powered by JBoss Portal

Figure 21. File browser with new version of index.html.

Click on the "Portal" link in the upper right corner of the browser page to see the changes we have made. The content view portlet shows the updated version of the index.html page we edited above (Figure 22).

JBossPortal Logged in as: admin

Home | News | Test | TestWithAjax | Weather Dashboard | Admin | Logout

Greetings!

1 Demo. 2 Download. 3 Accessorize.

This is a basic installation of **JBoss Portal 2.6.2-GA**. You may log in at any time, using the *Login* link at the top-right of this page, with the following credentials:

user/user or admin/admin

If you are in need of guidance with regards to navigating, configuring, or operating the portal, please view our online documentation.

User portlet

View profile | Edit profile

View profile

Username: admin
E-Mail: admin@portal.com

Unbound Opportunity...
JBoss Portal 2.6

JBoss Portal provides an open source platform for hosting and serving a portal Web interface, publishing and managing its content, and customizing its experience. While most packaged Portal frameworks help enterprises launch Portals more quickly, only JBoss Portal delivers the benefits of a zero-cost open source license combined with a flexible and scalable underlying platform.

Support Services

JBoss Inc. offers various support services tailored to fit your needs. Explore support and service options for JBoss Portal.

PortletSwap

Portletswap.com is an open community sponsored by JBoss, Inc. to facilitate the exchange of portlets and layouts for use in JBoss Portal.

Quickstart Guide

Click here to see the Quickstart guide for JBoss Portal.

Thank you for downloading and deploying JBoss Portal. We hope your enjoy working with it as much as we enjoy developing it!

Baci e abbracci,
The JBoss Portal Team

Figure 22. Content view portlet with the updated default page.

Click on the "Click here" link that was updated to go to the new uploaded content (Figure 23).

JBossPortal Logged in as: admin

Home | News | Test | TestWithAjax | Weather Dashboard | Admin | Logout

Greetings!

1 Demo. 2 Download. 3 Accessorize.

This is a basic installation of **JBoss Portal 2.6.2-GA**. You may log in at any time, using the *Login* link at the top-right of this page, with the following credentials:

user/user or admin/admin

If you are in need of guidance with regards to navigating, configuring, or operating the portal, please view our online documentation.

User portlet

View profile | Edit profile

View profile

Username: admin
E-Mail: admin@portal.com

JBoss Portal 2.4 Next

JBoss Portal 2.4

Quickstart User Guide

Kevin Barfield
<kevin.barfield@jboss.org>

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 - 4.3. Administrator Login
 - 4.4. Content Management
 - 4.5. Portal Management
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- 6. Tutorial End

Next
JBoss Portal - Overview

Figure 23. Content view portlet with docs page shown.

The links on the quickstart HTML page that you uploaded will go to the other pages that were uploaded to the content repository with it. Try them out to see for yourself.

4.5. Portal Management

Click on the Admin link in the upper right of the browser page. From this Admin Portal, you should have access to the CMS, Members, WSRP and Portal management interfaces. (Figure 24).

JBossPortal

Logged in as: admin

Dashboard | Portal | Logout

CMS Members WSRP Home

Portal Objects Portlet Instances Portlet Definitions Dashboards

Portals

Manage portals

Properties

Manage sub-portals

Create a portal named: [Create portal](#)

Portal	Actions
admin	Security Properties Theme Delete Make Default
default	Security Properties Theme Delete Default
template	Security Properties Theme Delete Make Default

Switch to wizard mode

Powered by JBoss Portal

Figure 24. Admin portal page.

Click the "Members" tab to access the member management page. Click on the "Search users" link to see all of the users currently enrolled in the portal security repository (Figure 25).

JBossPortal

Logged in as: admin

Dashboard | Portal | Copy to my dashboard | Logout

CMS Members WSRP Home

User Management Role Management

User Management Search users

[Search users](#) 10

Username	E-Mail	Firstname	Lastname	Enabled	Actions
admin	admin@portal.com			<input checked="" type="checkbox"/>	Edit user Roles Disable Delete
starter	user@portal.com			<input checked="" type="checkbox"/>	Edit user Roles Disable Delete
user	user@portal.com			<input checked="" type="checkbox"/>	Edit user Roles Disable Delete

Powered by JBoss Portal

Figure 25. User portlet with user list view.

The starter user we created is shown in the list. Click on the "Roles" link next to the starter user to see the available roles (Figure 26).

The screenshot shows the JBossPortal interface. At the top, it says "JBossPortal" and "Logged in as: admin". There are navigation tabs for "CMS", "Members", "WSRP", and "Home". Below these, there are links for "Dashboard", "Portal", "Copy to my dashboard", and "Logout". The main content area has tabs for "User Management" and "Role Management". Under "User Management", there is a breadcrumb trail: "User Management > Assign roles > starter". Below this, there are two checkboxes: "Administrators" (unchecked) and "Users" (checked). At the bottom right, there are "Submit" and "Cancel" buttons. The footer says "Powered by JBoss Portal".

Figure 26. User portlet with available roles view.

Add the "Administrators" role to this user by checking the check box next to the "Administrators" label. Click the "Submit" button to apply the new role to the user. This brings us back to the main User Management view (Figure 27).

The screenshot shows the JBossPortal interface. At the top, it says "JBossPortal" and "Logged in as: admin". There are navigation tabs for "CMS", "Members", "WSRP", and "Home". Below these, there are links for "Dashboard", "Portal", "Copy to my dashboard", and "Logout". The main content area has tabs for "User Management" and "Role Management". Under "User Management", there is a search icon and "Search users" link, and a "Create new user account" link. Below this, there is a "Matrix" section with a table showing "Registered users" and the number "3". There is also a "Subscription Modes" section with a table showing "Subscription mode" and "Admin subscription mode", both with the value "Automatic - no e-mail validation, no admin approval." The footer says "Powered by JBoss Portal".

Figure 27. User portlet menu view.

Now let's look at the user profile for the starter user. Click on "Search Users" again to get back to the user result list, and then click on the "Edit user" link next to the starter user. The user profile view appears (Figure 28).

JBossPortal Logged in as: admin

[CMS](#) [Members](#) [WSRP](#) [Home](#) Dashboard | Portal | Copy to my dashboard | Logout

User Management [Role Management](#)

User Management > Edit profile > **starter**

Username: starter
 E-Mail *: user@portal.com
 Password: Change password

General Preferences

Time zone offset: [Dropdown]
 Theme: [Dropdown]
 Locale: [Dropdown]

Personal Information

Firstname: [Text Field]
 Lastname: [Text Field]
 Location: [Text Field]

Instant Message Identities

Skype ID: [Text Field]
 Icq ID: [Text Field]

Figure 28. User profile view.

This shows all of the fields available in the user profile. Under the "Personal Information" section, enter the first name of "Starter" and click the "Submit" button at the bottom of the page. The user list is redisplayed with the updated first name for the "starter" user (Figure 29).

JBossPortal Logged in as: admin

[CMS](#) [Members](#) [WSRP](#) [Home](#) Dashboard | Portal | Copy to my dashboard | Logout

User Management [Role Management](#)

User Management > **Search users**

[Search Input] [Search users](#) [10] [Dropdown]

Username	E-Mail	Firstname	Lastname	Enabled	Actions
admin	admin@portal.com			<input checked="" type="checkbox"/>	Edit user Roles Disable Delete
starter	user@portal.com	Starter		<input checked="" type="checkbox"/>	Edit user Roles Disable Delete
user	user@portal.com			<input checked="" type="checkbox"/>	Edit user Roles Disable Delete

Powered by JBoss Portal

Figure 29. User search results with updated user first name.

Now, let's explore the management portlet, by clicking on the "Home" tab. This portlet shows a view of the portals, portal pages and portlet instances (Figure 30).

JBossPortal Logged in as: admin

[CMS](#) [Members](#) [WSRP](#) [Home](#) [Dashboard](#) | [Portal](#) | [Logout](#)

[Portal Objects](#) [Portlet Instances](#) [Portlet Definitions](#) [Dashboards](#)

Portals

Manage portals

Properties

Manage sub-portals

Create a portal named: [Create portal](#)

Portal	Actions
admin	Security Properties Theme Delete Make Default
default	Security Properties Theme Delete Default
template	Security Properties Theme Delete Make Default

[Switch to wizard mode](#)

Powered by JBoss Portal

Figure 30. Management portlet page view.

Let's create a new portal page. Click on the "default" portal link in the "Portals" list at the bottom of the page. In the resulting view, enter "Starter" in the text field next to the "Create a page named:" label. Your portal page view should match the following figure (Figure 31).

JBossPortal Logged in as: admin

[CMS](#) [Members](#) [WSRP](#) [Home](#) [Dashboard](#) | [Portal](#) | [Logout](#)

[Portal Objects](#) [Portlet Instances](#) [Portlet Definitions](#) [Dashboards](#)

Portals > **default portal**

Manage default portal

[Security](#) | [Properties](#) | [Theme](#) | [Delete](#)

Manage sub-pages within default portal

Create a page named: [Create page](#)

Page	Actions
News	Page layout Security Properties Theme Rename Delete Make Default
Test	Page layout Security Properties Theme Rename Delete Make Default
TestWithAjax	Page layout Security Properties Theme Rename Delete Make Default
Weather	Page layout Security Properties Theme Rename Delete Make Default
default	Page layout Security Properties Theme Rename Delete Make Default

[Switch to wizard mode](#)

Powered by JBoss Portal

Figure 31. Management portlet add page view.

Click the "Create Page" button to create the new page. We now see the "Starter" page in the list of portal pages (Figure 32).

JBossPortal Logged in as: admin

CMS Members WSRP **Home** Dashboard | Portal | Logout

Portal Objects Portlet Instances Portlet Definitions Dashboards

Portals > default portal

Manage default portal

Security | Properties | Theme | Delete

Manage sub-pages within default portal

Create a page named: **Create page**

Page	Actions
News	Page layout Security Properties Theme Rename Delete Make Default
Starter	Page layout Security Properties Theme Rename Delete Make Default
Test	Page layout Security Properties Theme Rename Delete Make Default
TestWithAjax	Page layout Security Properties Theme Rename Delete Make Default
Weather	Page layout Security Properties Theme Rename Delete Make Default
default	Page layout Security Properties Theme Rename Delete Make Default

[Switch to wizard mode](#)

Powered by JBoss Portal

Figure 32. Starter portal page has been added.

Now let's add some portlet instances to the portal page. Click on "Page layout" link of the "Starter" entry in the Management Portlet, and the details for that portal page are shown (Figure 33).

JBossPortal Logged in as: admin

CMS Members WSRP **Home** Dashboard | Portal | Logout

Portal Objects Portlet Instances Portlet Definitions Dashboards

Portals > default portal > **Starter page Layout**

Content Definition

Define a name for the window of content (optional):

Window Name:

Select the type of content that will be added to the page:

Content Type:

Select content that will be added to the page:

Portlet instance associated to this window:

- AdminPortletInstance
- AsyncURLPortletInstance
- CachedCounterPortletInstance
- CatalogPortletInstance
- CharsetPortletInstance
- CMSAdminPortletInstance
- CounterPortletInstance
- DashboardConfigPortletInstance
- EncodingPortletInstance
- EventPortletInstance
- ExceptionPortletInstance
- FileUploadPortletInstance
- FormAutoSubmitPortletInstance
- HeaderContentPortletInstance
- IdentityAdminPortletInstance

Page Layout

center Region

Add **Up**
Down
Delete

left Region

Add **Up**
Down
Delete

Figure 33. Management portlet for Starter portal page.

First, let's add a weather portlet. It's a good idea to give the new portlet window a name instead of relying on the portal to generate one for you, so enter "weather" in the "Window Name" field. The weather portlet is a JSR-168 portlet, so we can leave the "Content Type" drop-down set to "portlet". In the list labeled "Portlet instance associ-

ated to this window:", select the "WeatherPortletInstance" portlet instance. You can verify that you have the proper portlet instance selected by viewing the details that show up below the Portlet Instance list at the bottom of the portlet (Figure 34).

The screenshot displays the configuration interface for a portlet. It is divided into two main sections: **Content Definition** and **Page Layout**.

Content Definition:

- Define a name for the window of content (optional):
Window Name:
- Select the type of content that will be added to the page:
Content Type:
- Select content that will be added to the page:
Portlet instance associated to this window:
 - AdminPortletInstance
 - AsyncURLPortletInstance
 - CachedCounterPortletInstance
 - CatalogPortletInstance
 - CharsetPortletInstance
 - CMSAdminPortletInstance
 - CounterPortletInstance
 - DashboardConfigPortletInstance
 - EncodingPortletInstance
 - EventPortletInstance
 - ExceptionPortletInstance
 - FileUploadPortletInstance
 - FormAutoSubmitPortletInstance
 - HeaderContentPortletInstance
 - IdentityAdminPortletInstance
 - IdentityUserPortletInstance** (selected)
- Portlet instance: WeatherPortletInstance
 Portlet name: Weather Portlet
 Portlet description: Portlet providing weather forecast
 Portlet title: Weather Portlet
 Portlet keywords: sample,news

Page Layout:

- center Region: [Empty list box]
- left Region: [Empty list box]

Powered by JBoss Portal

Figure 34. Choosing the "WeatherPortletInstance" portlet instance from the list.

Scroll up to the list box that is labeled "center Region". Click the "Add" button to the left of that list box. The "weather" portlet instance is now shown under the "center Region" (Figure 35).

The screenshot shows the JBossPortal interface. At the top, it says "JBossPortal" and "Logged in as: admin". There are navigation tabs for "CMS", "Members", "WSRP", and "Home". Below that, there are sub-tabs for "Portal Objects", "Portlet Instances", "Portlet Definitions", and "Dashboards". The main content area shows a breadcrumb trail: "Portals > default portal > Starter page Layout".

The "Content Definition" section has the following fields:

- Define a name for the window of content (optional): Window Name:
- Select the type of content that will be added to the page: Content Type:
- Select content that will be added to the page: Portlet instance associated to this window:
 - AdminPortletInstance
 - AsyncURLPortletInstance
 - CachedCounterPortletInstance
 - CatalogPortletInstance
 - CharsetPortletInstance
 - CMSAdminPortletInstance
 - CounterPortletInstance
 - DashboardConfigPortletInstance
 - EncodingPortletInstance
 - EventPortletInstance
 - ExceptionPortletInstance
 - FileUploadPortletInstance
 - FormAutoSubmitPortletInstance
 - HeaderContentPortletInstance
 - IdentityAdminPortletInstance

The "Page Layout" section shows two regions:

- center Region: Contains a "weather" portlet instance. Buttons: Add, Up, Down, Delete.
- left Region: Empty. Buttons: Add, Up, Down, Delete.

Figure 35. Weather portlet instance is added.

Let's change the theme for the weather portlet window we just added so that the weather portlet window doesn't display any decorations. Just below the "Portal Objects" tab near the top of the page is a breadcrumbs list that shows us we are in the "Portals" management section, in the "default" portal, and in the "Starter" page layout. Each of the elements in the breadcrumbs list is a link that will allow you to navigate back to other portal components. Click on the "Starter page" link in the breadcrumbs. In the resulting view under the "Manage windows within Starter page" section, click on the "theme" action link next to the "weather" window. Let's set the Window Renderer, Decoration Renderer, and Portlet Renderer to "emptyRenderer" (Figure 36).

The screenshot shows the JBossPortal interface. At the top, it says "JBossPortal" and "Logged in as: admin". There are navigation tabs for "CMS", "Members", "WSRP", and "Home". Below that, there are sub-tabs for "Portal Objects", "Portlet Instances", "Portlet Definitions", and "Dashboards". The main content area shows a breadcrumb trail: "Portals > default portal > Starter page > weather window Theme".

The "Window theme properties" section contains the following table:

Name	Description	Setting
Window Renderer	Name of the render engine to use to render windows	<input type="text" value="emptyRenderer"/>
Decoration Renderer	Name of the render engine to use to render window decorations	<input type="text" value="emptyRenderer"/>
Portlet Renderer	Name of the render engine to use to render portlets	<input type="text" value="emptyRenderer"/>

At the bottom right of the table, there are "Cancel" and "Update" buttons.

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Figure 36. Theme details for the weather portlet instance.

Click the "Update" button to apply the theme changes. Finally, let's take a look at security in the Management Portlet. Click on the "Starter page" link in the breadcrumbs below the "Portal Objects" tab. Next click the "Security" link just under the "Manage Starter page" section title, and the list of available roles and actions is shown for the

"Starter" portal page.(Figure 37).

JBossPortal Logged in as: admin
Dashboard | Portal | Logout

CMS Members WSRP **Home**

Portal Objects Portlet Instances Portlet Definitions Dashboards

Portals > default portal > **Starter page Security**

Please set the page permissions

Roles	Permissions
Role Administrators:	<input type="checkbox"/> View <input type="checkbox"/> View Recursive <input type="checkbox"/> Personalize <input type="checkbox"/> Personalize Recursive
Role Users:	<input type="checkbox"/> View <input type="checkbox"/> View Recursive <input type="checkbox"/> Personalize <input type="checkbox"/> Personalize Recursive
Role Unchecked:	<input type="checkbox"/> View <input type="checkbox"/> View Recursive <input type="checkbox"/> Personalize <input type="checkbox"/> Personalize Recursive

Powered by JBoss Portal

Figure 37. Security for the "Starter" portal page.

Let's take a look at the Starter portal page we created. Click on the "Portal" link, and then the "Starter" tab at the top to go to the "Starter" portal page (Figure 38).

JBossPortal Logged in as: admin
Dashboard | Admin | Copy to my dashboard | Logout

Home News Test TestWithAjax Weather **Starter**

Miami, FL, US

Currently	Thu	Fri
Partly Cloudy	Isolated Thunderstorms	Thundershowers
82F	76F/89F	77F/88F

[Complete Forecast](#)

Powered by JBoss Portal

Figure 38. The Starter portal page.

5

Deploying Portlets

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Xi Huang <xhuang@redhat.com>

Let's add a portlet from Portletswap to the JBoss Portal we have running. Open a browser to the following URL: <http://www.portletswap.com> [1] (Figure 39).

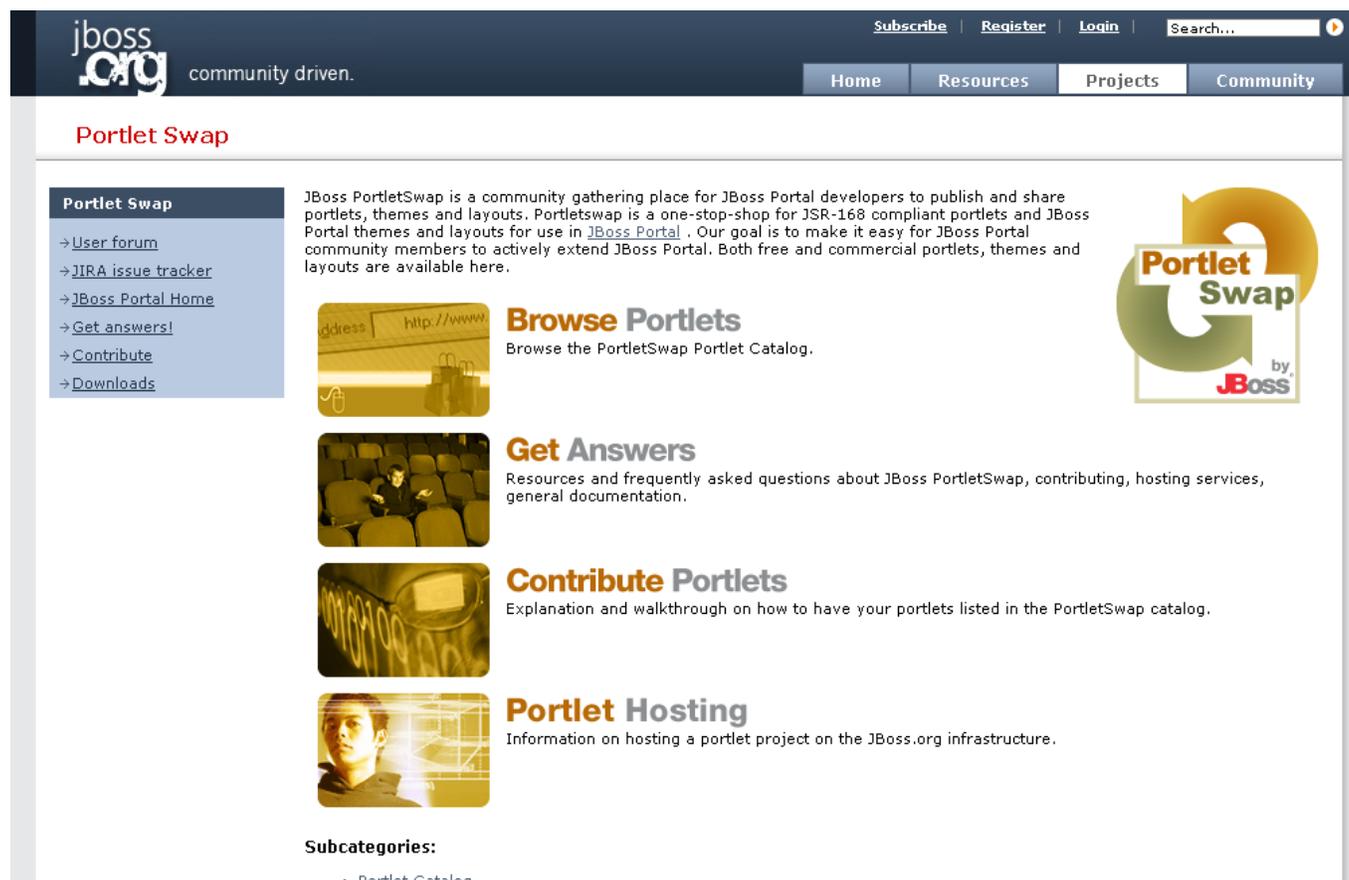


Figure 39. Portletswap website

Click on the "Browse Portlets" link to see the categories of portlets available (Figure 40).

[1] <http://www.portletswap.com>

Figure 40. Portlet categories on portletswap. Click on the Miscellaneous Portlets browse link to see a list of portlets (Figure 41).

Figure 41. List of portlets on portletswap. Click on the "Zip" link below the description for the Flash Portlet. The download dialog will appear (Figure 42).

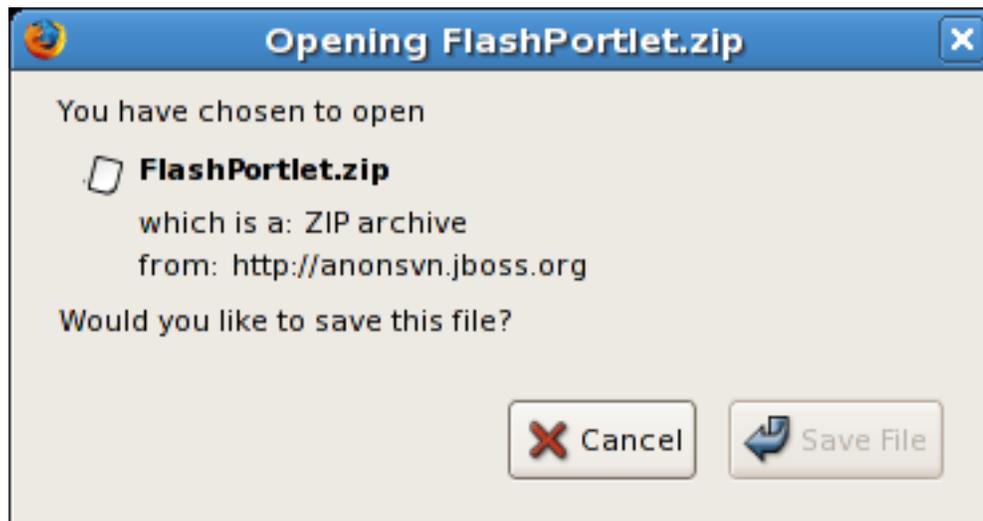


Figure 42. Download dialog.

This ZIP file contains both the binary and the source for the portlet. Open the zip and extract the flash.war file. Place this file in the `$JBOSS_HOME/server/default/deploy` directory. The console for the JBoss Portal will show the portlet being deployed (Figure 43).

```

cdelashmutt@cdelashmutt:~/JBoss/jboss-portal-head/bin
File Edit View Terminal Tabs Help
00:27:19,082 WARN [LoadContexts] fail-safe cleanup (collections) : org.hibernate.engine.loading.CollectionLoadContext@1712c8b<rs=org.hsqldb.jdbc.jdbcResultSet@acd9d4>
00:27:19,082 WARN [LoadContexts] fail-safe cleanup (collections) : org.hibernate.engine.loading.CollectionLoadContext@1237e51<rs=org.hsqldb.jdbc.jdbcResultSet@3c535d>
00:27:21,177 WARN [LoadContexts] fail-safe cleanup (collections) : org.hibernate.engine.loading.CollectionLoadContext@17cc370<rs=org.hsqldb.jdbc.jdbcResultSet@478d26>
00:27:21,177 WARN [LoadContexts] fail-safe cleanup (collections) : org.hibernate.engine.loading.CollectionLoadContext@32531<rs=org.hsqldb.jdbc.jdbcResultSet@c3d90f>
00:27:21,177 WARN [LoadContexts] fail-safe cleanup (collections) : org.hibernate.engine.loading.CollectionLoadContext@7edaf3<rs=org.hsqldb.jdbc.jdbcResultSet@1432076>
00:27:21,177 WARN [LoadContexts] fail-safe cleanup (collections) : org.hibernate.engine.loading.CollectionLoadContext@58ba09<rs=org.hsqldb.jdbc.jdbcResultSet@131dc94>
00:28:43,243 INFO [ProducerInfo] Refreshed registration information for consumer with id 'self'
00:33:43,341 INFO [ProducerInfo] Refreshed registration information for consumer with id 'self'
00:37:03,747 INFO [TomcatDeployer] deploy, ctxPath=/flash, warUrl=../tmp/deploy/tmp37266flash-exp.war/

```

Figure 43. Flash Portlet deployed.

To see the deployed portlet, we need to add it to our Starter portal page. First, we need to create an instance of the portlet. Go to the Management Portlet and click "Portlet Definitions" tab (Figure 44).

The screenshot shows the JBossPortal Admin interface. At the top, there's a navigation bar with "JBossPortal" logo, "Logged in as: admin", and links for "Dashboard", "Portal", and "Logout". Below the navigation bar are tabs for "CMS", "Members", "WSRP", and "Home". A secondary navigation bar includes "Portal Objects", "Portlet Instances", "Portlet Definitions", and "Dashboards".

The main content area displays a list of portlets provided by the "local" provider. The table below summarizes the data shown in the screenshot:

Name	Description	Remote	Remotable	Actions
Administration Portlet	Administration Portlet	<input type="checkbox"/>	<input type="checkbox"/>	Create instance
Async URL Portlet	Async URL Portlet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Create instance
Basic Portlet		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Create instance
Cached Counter Portlet	Counter Portlet with cache support	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Create instance
Charset Portlet	Portlet showing different ways to properly display and submit unicode text	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Create instance
Content Management System Administration Portlet	Administration Portlet for CMS	<input type="checkbox"/>	<input type="checkbox"/>	Create instance
Counter Portlet	Portlet displaying the number of it's action/render calls	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Create instance
Current Users Portlet	Current users portlet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Create instance
Dashboard Configurator Portlet	Dashboard Configurator Portlet	<input type="checkbox"/>	<input type="checkbox"/>	Create instance
Encoding Portlet	Portlet for testing encoding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Create instance
Event Portlet	Event Portlet	<input type="checkbox"/>	<input type="checkbox"/>	Create instance
Exception Portlet	Portlet for testing behaviour on exceptions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Create instance
File Upload Portlet	File Upload Portlet	<input type="checkbox"/>	<input type="checkbox"/>	Create instance
Flash Portlet		<input type="checkbox"/>	<input type="checkbox"/>	Preferences Create instance
Form auto submit Portlet	Portlet which performs a programmatic submit of a form	<input type="checkbox"/>	<input type="checkbox"/>	Create instance
Header Content Portlet	Portlet to test modification of head content	<input type="checkbox"/>	<input type="checkbox"/>	Create instance
Identity admin portlet	Identity admin portlet	<input type="checkbox"/>	<input type="checkbox"/>	Preferences

Figure 44. Admin portal page.

A list of all portlets will be displayed. Click on the "Create Instance" action link for the "Flash Portlet". This will bring up a view similar to Figure 45 that will allow you to name the new portlet instance.

The screenshot shows the "Flash Portlet instance creation" page in the JBossPortal Admin interface. The page title is "Flash Portlet instance creation". Below the title, there is a form with a text input field labeled "Create an instance named:" and a "Create instance" button. The page footer indicates "Powered by JBoss Portal".

Figure 45. Portlets administration.

Type in "Flash Portlet" as the instance name in the textbox at the bottom of the page, and click on the "Create Instance" button. The resulting view will show the summary information about the "Flash Portlet" portlet instance that we created. (Figure 46).

JBossPortal Logged in as: admin

CMS Members WSRP Home Dashboard | Portal | Logout

Portal Objects Portlet Instances Portlet Definitions Dashboards

Portlet Instances **Flash Portlet portlet details**

Portlet name: Flash Portlet
 Portlet description: Flash Portlet
 Portlet title: Flash Portlet
 Portlet keywords: Flash Portlet
 Portlet locales: en

Powered by JBoss Portal

Figure 46. Portlet instances summary.

Now you can add this portlet instance to the Starter portal page. Click on the "Portal Objects" tab and navigate to the "Page layout" page of "Starter" portal page as we did in the last section. Select "Flash Portlet" from the portlet list, click the "Select" button, and add it to center of the "Starter" portal page with a name of "flash" (Figure 47).

JBossPortal Logged in as: admin

CMS Members WSRP Home Dashboard | Portal | Logout

Portal Objects Portlet Instances Portlet Definitions Dashboards

Portals default portal **Starter page Layout**

Content Definition

Define a name for the window of content (optional):
 Window Name:

Select the type of content that will be added to the page:
 Content Type:

Select content that will be added to the page:

Portlet instance associated to this window:

- AdminPortletInstance
- AsyncURLPortletInstance
- CachedCounterPortletInstance
- CatalogPortletInstance
- CharsetPortletInstance
- CMSAdminPortletInstance
- CounterPortletInstance
- CurrentUsersPortletInstance
- DashboardConfigPortletInstance
- EncodingPortletInstance
- EventPortletInstance
- ExceptionPortletInstance
- FileUploadPortletInstance
- Flash Portlet
- FlashPortletInstance

Page Layout

center Region

Add weather
flash

Up
Down
Delete

left Region

Add

Up
Down
Delete

Figure 47. Starter portal page with "flash" portlet added.

Click on the "Portal" link in the upper right of the page. Click on the Starter portal page, and the "flash" portlet is displayed (Figure 48).

The screenshot shows the JBossPortal interface. At the top left is the JBossPortal logo. On the top right, it says "Logged in as: admin" and provides links for "Dashboard", "Admin", "Copy to my dashboard", and "Logout". Below the logo is a navigation menu with buttons for "Home", "News", "Test", "TestWithAjax", "Weather", "Flash", and "Starter".

The main content area features a weather portlet for "Miami, FL, US". It displays a 3-day forecast:

Currently	Fri	Sat
		
Mostly Cloudy	Thundershowers	Scattered Thunderstorms
90F	77F/87F	77F/88F

Below the weather portlet is a "Complete Forecast" link. The "Flash Portlet" is a large rectangular area containing the text "JBoss is what's next | now" and the JBoss logo with "next | now" underneath. The portlet has an "Edit" button in the top right corner. Below the portlet, it says "Powered by JBoss Portal".

Figure 48. Starter portal page with "flash" portlet.

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Tutorial End

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Congratulations! You have completed the JBoss Portal Quickstart Tutorial. During this tutorial, you:

- Downloaded and unzipped the JBoss Portal bundle
- Executed the JBoss Portal
- Interacted with the default portal
- Created and edited content in the JBoss Portal
- Managed the JBoss Portal
- Added a new portlet to the JBoss Portal

Next steps: Next, take a look at the user guide for JBoss Portal. This will give you more information about using JBoss Portal. There is also a reference guide for developers using JBoss Portal. Both guides are accessible from our [Documentation Page](http://labs.jboss.com/portal/jbossportal/docs) [1]

[1] <http://labs.jboss.com/portal/jbossportal/docs>