

FatWire | Content Server 7

Version 7.5 Patch 3

Rollup Installation Guide

Document Revision Date: Mar. 23, 2010



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FatWire Content Server Rollup Installation Guide

Document Revision Date: Mar. 23, 2010

Product Version: 7.5 Patch 3

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Chapter 1

Rolling Up to FatWire Content Server 7.5 Patch 3

This chapter provides instructions for installing FatWire Content Server 7.5 Patch 3.

This chapter contains the following sections:

- [Overview](#)
- [Pre-Installation Steps](#)
- [Installation Options](#)
- [Post-Installation Summary](#)
- [Rollup Procedures](#)
- [WEM Framework and Changes to Content Server](#)

Overview

FatWire Content Server 7.5 Patch 3 provides two new features – FatWire Web Experience Management (WEM) Framework and Ehcache Beta.

If you choose to install the WEM framework, it will run on Content Server. The WEM login screen will replace the Content Server login screen, which affects the way Content Server Dash, Advanced, and InSite interfaces are accessed. WEM Framework consists of the following components:

REST API – enables developers to communicate with Content Server for the purpose of building and implementing applications on the WEM framework.

Universal UI container – provides a single interface for accessing FatWire products and custom-built applications running on WEM Framework and enables rendering of the applications' interfaces.

WEM Admin interface – enables the coupling of users to WEM-integrated applications and provides for centralized user management.

REST Security Model – enables administrators to control access to the resources of applications implemented on WEM.

Single Sign-On – enables WEM users to access all applications allowed to them during the session without having to sign in to each application.

Ehcache Beta is our implementation of the Ehcache open source product available under the Apache license. Ehcache Beta is automatically installed with Content Server and disabled by default. This new caching option provides significant performance improvements over our standard page cache method. Enabling Ehcache Beta requires assistance from FatWire Technical Support.

Pre-Installation Steps

Before upgrading to version 7.5 Patch 3 make sure the following pre-requisites are satisfied:

- You have read the release notes and the *Supported Platform Document*.

Note

All FatWire product documentation is available on our e-docs site, at <http://support.fatwire.com>. The site is password protected. Accounts can be opened from the home page.

- You are rolling up from a Content Server 7.5, 7.5 Patch 1, or 7.5 Patch 2 installation. You will run the rollup installer on all systems (development, staging, testing, and delivery) in your environment.
- The `max PermGen` parameter on all application servers is in the range of 128MB–196MB.
- Before performing a portal server installation, back up the `portlet.xml`, `web.xml` and any other server-specific configuration files. After the installation midpoint, you will merge these configuration files manually and package them back into Content

Server's `.ear` and `.war` files. You will do this whether or not you are installing WEM.

- For JDK 1.6, copy `jaxb-impl-2.1.12.jar` file (located in `Rollup/wem/lib`) to the following location: `<PATH_TO_JDK_FOLDER>/jre/lib/endorsed`

Note

Do not use the `jaxb-impl` that ships with JDK 1.6. Content Server relies on the latest version of `jaxb-impl`, which we provide in the location named above. The latest `jar` file must be used in order to resolve a runtime conflict with WebLogic Server (which ships with JDK 1.6).

Installation Options

- There are two ways to install this patch: Silently or in GUI mode. The rollup installer detects and uses the deployment method that was used to install Content Server 7.5.
- If you wish to install the WEM framework, consider the changes that will be made by the installer. See “[WEM Framework and Changes to Content Server](#),” on page 12. More information about WEM can be found in the *WEM Framework Administrator's Guide* and the *WEM Framework Developer's Guide*.

WEM requires Central Authentication Services (CAS). The installer will either deploy CAS automatically or prompt you to deploy CAS. The following deployment options are supported: CAS on a primary Content Server cluster member, an application server cluster member marked as primary, or a separate application server.

Caution!

When WEM is installed on Content Server, the general administrator (`fwadmin`) is automatically assigned to the RestAdmin group (for unrestricted access to REST services), and enabled on AdminSite (where the WEM Admin application runs by default).

When you have finished installing Content Server, **do not delete the general administrator (`fwadmin`), that was used during the installation process.** Doing so disables **all** access to Content Server when WEM is installed. Instead, change the user name and password.

- Ehcache Beta will be installed by default, but disabled. Enabling Ehcache Beta requires assistance from FatWire Technical Support.

Post-Installation Summary

Once Content Server 7.5 Patch 3 is installed, you will follow up by verifying the installation and completing configuration steps that depend on whether you chose to install WEM, enable Ehcache Beta, or both. Installing Remote Satellite Server is covered in the Satellite Server installation guide.

Rollup Procedures

Complete one of the following procedures to install Patch 3 on your Content Server 7.5 system:

- [Upgrading Silently](#)
- [Running the GUI Installer](#)

Upgrading Silently

Start the upgrade process on the primary Content Server cluster member. When the process is complete, upgrade each of the secondary cluster members.

1. Copy the `omii.ini` file from `<cs_install_dir>/ominstallinfo/` to a folder outside `<cs_install_dir>`, and rename the file.
2. If you are not installing WEM, skip to [step 4](#).
3. If you are installing WEM, do the following:
 - a. Add the properties below to the renamed file.

Property	Description
<code>WEM</code>	Set this property to <code>true</code> to install WEM.
<code>IsPrimaryClusterMember</code>	Set this property to <code>true</code> if the silent installer is used to apply the patch on a primary Content Server cluster.
<code>CASHostName</code>	Point to the host name of the server where CAS will be deployed.
<code>CASPortNumber</code>	Point to the port number of the server where CAS will be deployed.

Sample Configurations:

- If you are upgrading a primary Content Server cluster member and autodeploy is enabled:


```
WEM=true
IsPrimaryClusterMember=true
CASHostName=<PRIMARY_CS_HOST_NAME>
CASPortNumber=<PRIMARY_CS_PORT_NUMBER>
```
- If you are upgrading a secondary Content Server cluster member and autodeploy is enabled:


```
WEM=true
IsPrimaryClusterMember=false
CASHostName=<PRIMARY_CS_HOST_NAME>
CASPortNumber=<PRIMARY_CS_PORT_NUMBER>
```

- If you are manually deploying CAS on a server other than the primary Content Server cluster member:

```
WEM=true
IsPrimaryClusterMember=false
CASHostName=<SERVER_HOST_NAME>
CASPortNumber=<SERVER_PORT_NUMBER>
```

- b. Verify the general administrator's credentials:

Ensure the credentials of Content Server's current general administrator (fwadmin by default) are correctly specified in the following properties: CSInstallAppName and CSInstallAppPassword. The silent installer will add this general administrator to the RestAdmin group and enable the administrator on the AdminSite.

4. Decompress the Rollup.zip file.
5. Edit the install.ini file (located in the root of the extracted Rollup folder):
 - a. Set nodisplay=true
 - b. Uncomment the loadfile property and set it as follows:
loadfile=<path and name of renamed omii.ini from step 1>

Note

Make sure you specify the file system path correctly. For example, for Windows:

```
CSInstallDirectory=C\:/csinstall
- or -
c:\\install
```

6. Run csrollupinstall.bat or csrollupinstall.sh -silent.
7. When the primary cluster member has been upgraded, repeat this procedure on all of the secondary Content Server cluster members, starting with step 1.
8. When all cluster members have been upgraded, continue as follows:
 - If you chose to install WEM, then changes were made to Content Server as described in [“WEM Framework and Changes to Content Server,”](#) on page 12.
 - For all installations, complete the steps in [Chapter 2, “Post-Installation Steps”](#) as necessary for your configuration.

Running the GUI Installer

Start the upgrade process on the primary Content Server cluster member. When the process is complete, upgrade each of the secondary cluster members.

To run the installer

1. If you are installing WEM, do one of the following:

Verify that the credentials of Content Server's current general administrator (fwadmin by default) are correctly specified in the /ominstallinfo/omii.ini file. The properties are CSInstallAppName and CSInstallAppPassword. The GUI installer will add this general administrator to the RestAdmin group and enable the administrator on the AdminSite.

2. Run the Content Server 7.5 Patch 3 installer by executing csrollupinstall.bat or csrollupinstall.sh from the directory into which you extracted the patch.
3. In this step you have the option to install WEM.

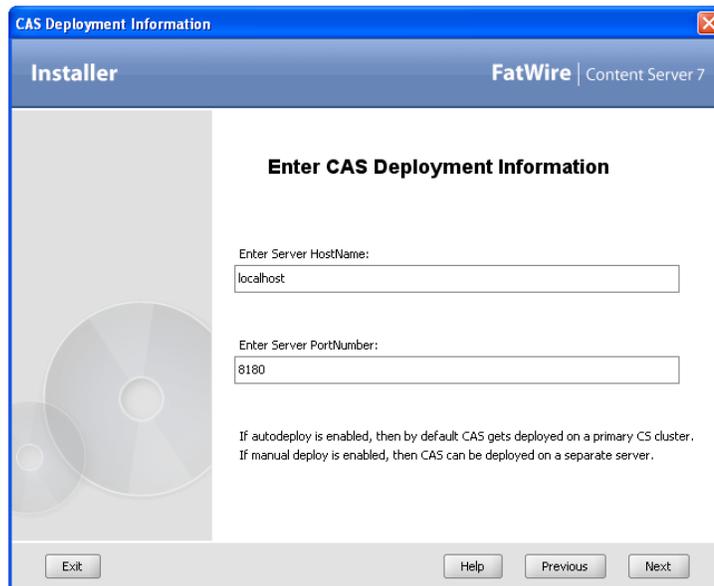
Note

Before selecting the WEM option, read the note on the installer screen. Also, consider the changes that will be made by the installer (see [“WEM Framework and Changes to Content Server,”](#) on page 12). More information about WEM can be found in the *WEM Framework Administrator's Guide* and *WEM Framework Developer's Guide*.

If you choose to install WEM, you will also have to specify CAS deployment information (in the next screen).



4. If you selected **WEM**, specify the host name and port number of the server on which CAS will be or has been deployed, depending on whether you are running the installer on a primary or secondary cluster member. For more information about CAS deployment, refer to the installer's online help.



Note

For all deployment types, the installer will enter the server's information into the `SSOConfig.xml` file (in Content Server's `WEB-INF/classes` folder), enabling Content Server to connect to CAS.

If you redeploy CAS after the installation process is complete, you must also reconfigure CAS and the `SSOConfig.xml` file.

5. Complete the rest of the installation.
6. When the primary cluster member has been upgraded, repeat this procedure on all of the secondary Content Server cluster members, starting with step 1.
7. When all cluster members have been upgraded, continue as follows:
 - If you chose to install WEM, then changes were made to Content Server as described in [“WEM Framework and Changes to Content Server,”](#) on page 12.
 - For all installations, complete the steps in [Chapter 2, “Post-Installation Steps”](#) as necessary for your configuration.

WEM Framework and Changes to Content Server

If you selected to install WEM, then the installer made several changes to Content Server's login page, property files, database schema, and other components. The changes are:

- [New Login Page](#)
- [AdminSite](#)
- [New Security Model](#)
- [Updated General Administrator](#)
- [WEM Admin Application](#)
- [Protected URLs](#)
- [New Web Application: CAS](#)
- [Changes to Property and Configuration Files](#)
- [Schema Changes](#)

New Login Page

Installing WEM replaces the Content Server login page with the WEM login page (see [page 23](#)), which affects the way Content Server interfaces are accessed (URL is unaffected).

AdminSite

Installing WEM creates a new site called "AdminSite" in Content Server's Advanced interface (on all Content Server systems *except delivery*). The new asset types `FW_View` and `FW_Application` are automatically created in Content Server's database and enabled on the AdminSite. The asset types are used to register applications (such as Content Server Advanced) and the applications' views, so they can be rendered in the WEM framework. More information about registration is available in the *WEM Framework Developer's Guide*.

New Security Model

Installing WEM creates a new node on the **Admin** tab in Content Server's Advanced interface. The node, named **Security**, is used to create groups with privileges to operate on objects in Content Server's database, which map to REST resources in WEM. The resources are used by applications implemented on WEM. Assigning users to a group grants users the group's privileges.

Installing WEM creates two default groups: `RestAdmin` and `SiteAdmin_AdminSite`. The `RestAdmin` group allows members to connect to REST with full administrative permissions to REST resources. The `SiteAdmin_AdminSite` group allows members to connect to REST, but with fewer administrative privileges.

Updated General Administrator

The general administrator that was used during the installation process (`fwadmin`) was added to the `RestAdmin` group. The general administrator was also enabled on the

AdminSite, which provides access to the WEM Admin interface. Instructions for creating additional general administrators are available on [page 26](#).

WEM Admin Application

Installing WEM installs the default application called ‘WEM Admin’ ([page 24](#)) for managing users’ access to Content Server and other WEM-integrated applications. WEM Admin runs on the AdminSite.

Protected URLs

The following URLs are protected by CAS when WEM is installed:

- `wem/fatwire/**`
- `/REST/**`
- `/faces/jsp/**`
- `/ContentServer? [pagename=OpenMarket/Xcelerate/UIFramework/LoginPage | OpenMarket/Xcelerate/UIFramework/ShowMainFrames, #]`
- `Satellite? [pagename=fatwire/insitetemplating/request | OpenMarket/Xcelerate/ControlPanel/Request | OpenMarket/Xcelerate/UIFramework/ShowPreviewFrames, #1]`

New Web Application: CAS

If CAS was autodeployed during the Content Server installation process, then it was deployed by default on a primary Content Server cluster member and configured to authenticate against the Content Server database. If you need to redeploy CAS, you must do so manually. For instructions, see “[Redeploying CAS](#),” on [page 27](#).

Changes to Property and Configuration Files

Installing WEM deploys `SSOConfig.xml` (a new configuration file). The file is located in Content Server’s `/WEB-INF/classes` directory. The following properties are also created (or modified):

Property File	Property	Value
futuretense_xcel.ini	wem.enabled	This new property is set to true if WEM is installed.
	xcelerate.userimageattr	This new property points to the WEM user’s image attribute, which holds image data for the user’s account and profile.
futuretense.ini	cs.ssovalidator	This new property points to the SSO validator plug-in. If WEM is installed, the default value is: <code>com.fatwire.wem.sso.cas.cs.plugin.SSOValidatorPlugin</code>

Property File	Property	Value
futuretense.ini	singlesignon	This existing property determines whether single sign-on is enabled. This property is set to <code>true</code> if WEM is installed. Caution! Do not change this value to <code>false</code> if WEM is installed. Doing so causes login to fail.

Schema Changes

The rollup installer makes several changes to schema when it installs the WEM option.

Updates to SystemUserAttr

The `urlvalue` column is added to the `SystemUserAttr` table. In the `SystemInfoTable`, the value of `defdir` for the `SystemUserAttr` table is updated to: `<shared_dir>/usrurl/`

New Tables

- The following tables are created in the database of all Content Server systems *except delivery* when WEM is installed:
 - `FW_Application`
 - `FW_Application_Dim`
 - `FW_Application_DimP`
 - `FW_View`
 - `FW_View_Dim`
 - `FW_View_DimP`

The `FW_Application` and `FW_View` asset types are used to register applications and their views as described in “[AdminSite](#),” on page 12.

- The following tables are created in the database of *all Content Server systems* when WEM is installed:
 - `FW_CSGroups`
 - `FW_CSSecurityConfig`
 - `FW_CSUserGroups`

These tables support the creation of REST security groups and configurations.

Chapter 2

Post-Installation Steps

Perform the steps in this chapter as required for your configuration:

- [Verifying Content Server Installations Without WEM Framework](#)
- [Verifying Content Server Installations Running WEM Framework](#)
- [Redeploying CAS](#)
- [Enabling Ehcache Beta](#)
- [Installing the Database Performance Utility](#)
- [Installing Remote Satellite Server](#)

Verifying Content Server Installations Without WEM Framework

Verify the installation by logging in to Content Server as an administrator. This section covers the following types of installations:

- [Web Installations](#)
- [Portal Installations](#)

Web Installations

Logging in to the Advanced Interface

1. Point your browser to the following URL:

`http://<hostname>:<port>/<context>/Xcelerate/LoginPage.html`

Content Server displays the Advanced interface login form:



FatWire | Content Server 7

User Name:

Password:

Login Reset

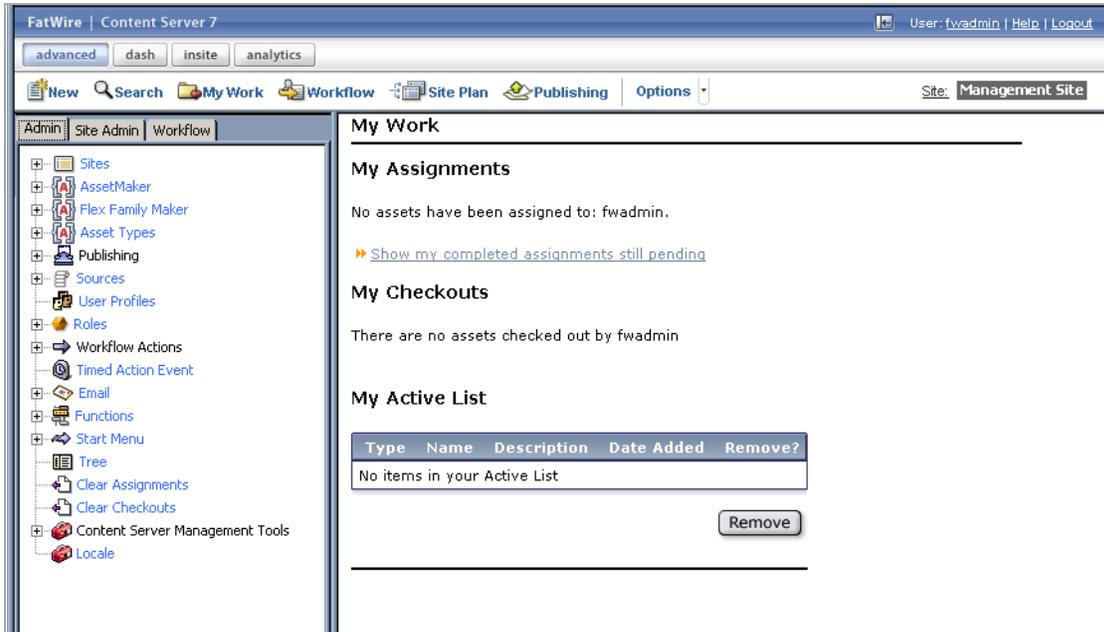
 Login: advanced
Forgot your password?
Don't have an account?

Installed Products:
Content Server 7.5

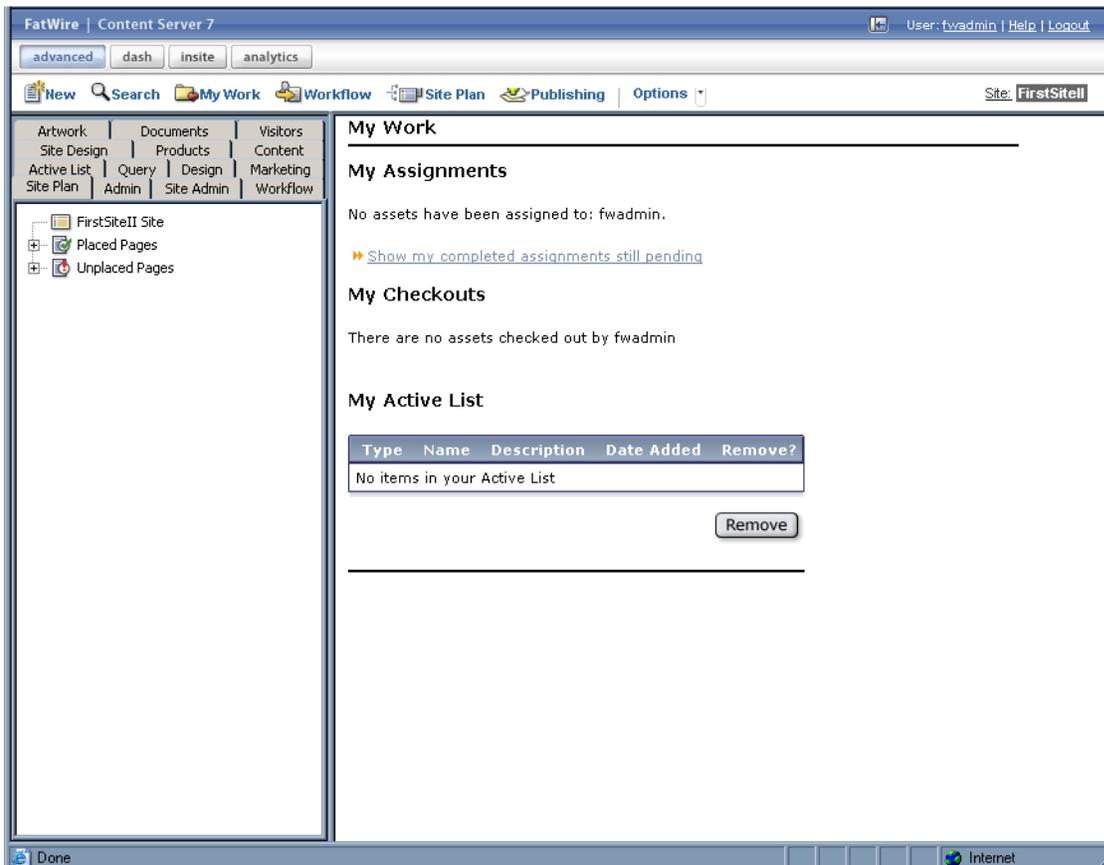
2. Log in with the credentials of the general administrator that was used during the installation process (the default credentials are `fwadmin/xceladmin`).
3. Click **Login**.

Depending on how many sites are configured in Content Server, one of the following happens:

- If no sites are configured, you are logged in to the built-in Content Server management site. Only system administration functionality is available.



- If one site is configured, you are logged in to that site.



- If more than one site is configured, Content Server displays the “Select Site” screen. Select the site you wish to log in to.

You have logged in as fwadmin

Select a site that you want to work on:

Site	Description	Assigned Role
BurlingtonFinancial	Burlington Financial	GeneralAdmin, ArtworkEditor, Approver, ContentEditor, WorkflowAdmin, Analyst, Pricer, Marketer, SiteAdmin, Checker, MarketingAuthor, MarketingEditor, Author, Editor, ContentAuthor, Expert, ProductAuthor, ProductEditor, DocumentAuthor, DocumentEditor, Designer, ArtworkAuthor
FirstSiteII	FirstSite Mark II	ArtworkEditor, GeneralAdmin, Approver, ContentEditor, WorkflowAdmin, Analyst, Pricer, Marketer, SiteAdmin, Checker, MarketingAuthor, MarketingEditor, Author, Editor, ContentAuthor, Expert, ProductAuthor, ProductEditor, DocumentAuthor, ArtworkAuthor, Designer, DocumentEditor
GE Lighting	GE Lighting	Designer, SiteAdmin, WorkflowAdmin, GeneralAdmin

[\[Log in again\]](#)

When you select a site, you are logged in to that site.

The screenshot shows the FatWire Content Server 7.5 interface. The top navigation bar includes 'advanced', 'dash', 'insite', and 'analytics'. The main navigation menu has 'New', 'Search', 'My Work', 'Workflow', 'Site Plan', 'Publishing', and 'Options'. The current site is 'BurlingtonFinancial'. The left sidebar contains a tree view of the system structure, including 'Sites', 'AssetMaker', 'Flex Family Maker', 'Asset Types', 'Publishing', 'Sources', 'User Profiles', 'Roles', 'Workflow Actions', 'Timed Action Event', 'Email', 'Functions', 'Start Menu', 'Tree', 'Clear Assignments', 'Clear Checkouts', 'Content Server Management Tools', and 'Locale'. The main content area is titled 'My Work' and contains three sections: 'My Assignments' (no assets assigned), 'My Checkouts' (no assets checked out), and 'My Active List' (no items in the list). A 'Remove' button is visible at the bottom of the 'My Active List' section.

Logging in to the Dash Interface

1. Point your browser to the following URL:

`http://<hostname>:<port>/<context>`

Content Server displays the Dash interface login page.

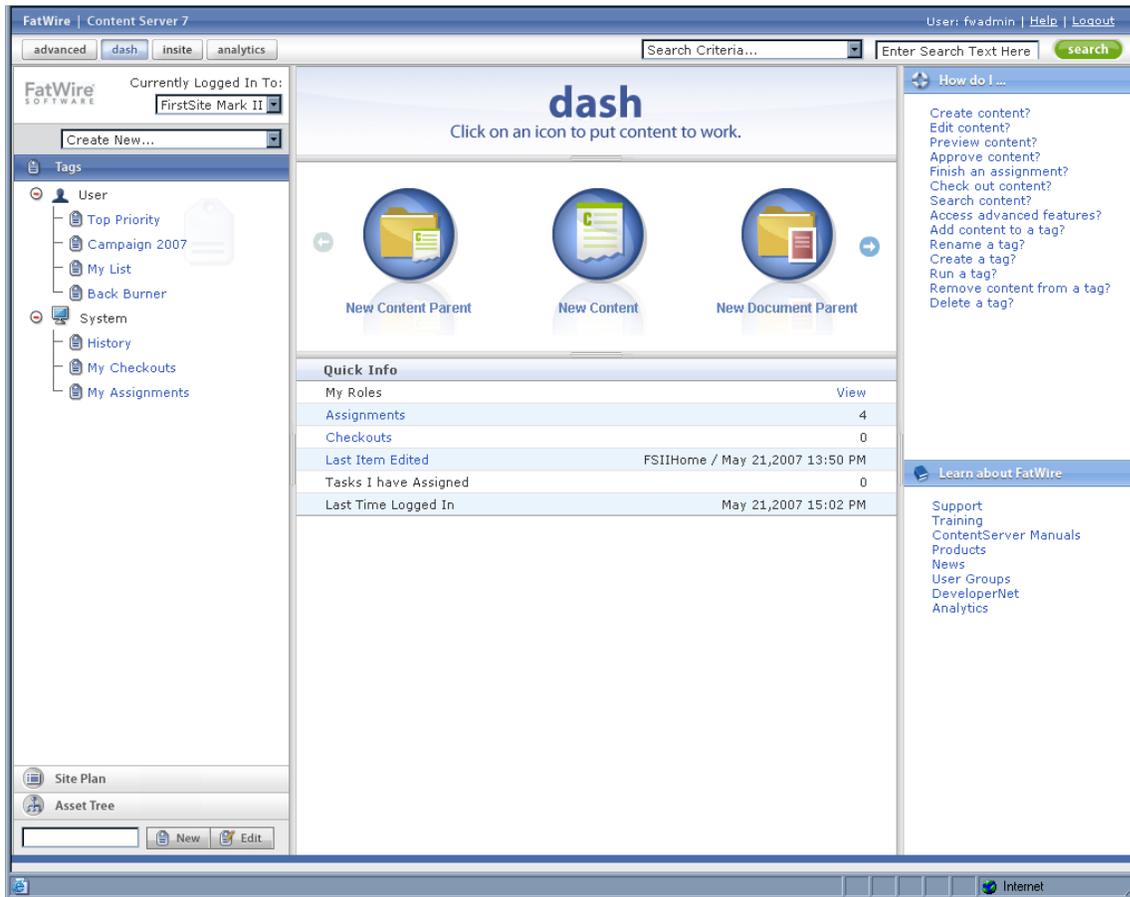


2. Log in with the credentials of the general administrator that was used during the installation process (the default credentials are `fwadmin/xceladmin`).
3. Click **Login**.

Depending on how many sites are configured in Content Server, one of the following happens:

- If no sites are configured, Content Server displays a message notifying you of that fact. You will not be able to log in to the Dash interface until at least one site exists on your system.

- If one site is configured, you are logged in to that site.



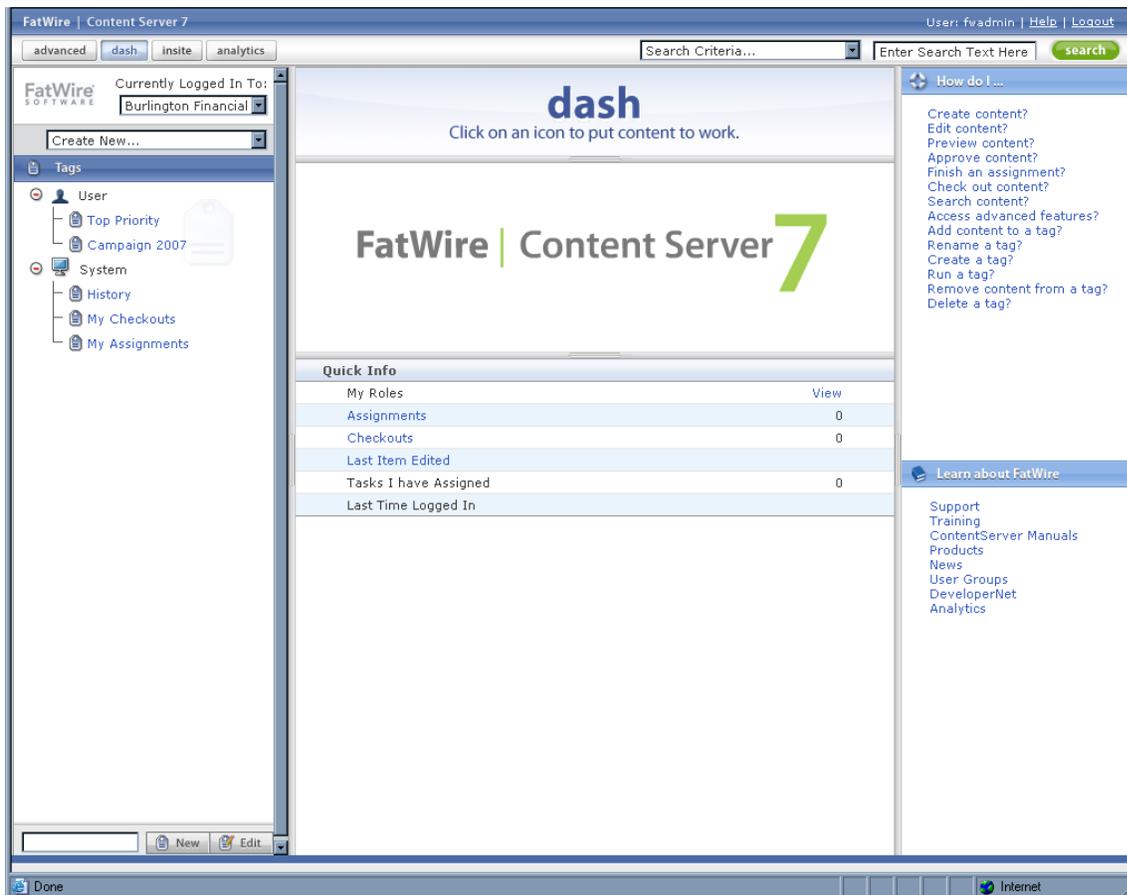
- If more than one site is configured, Content Server displays the “Select Site” screen. Select the site you wish to log in to.

You are currently logged in as 'fwadmin'
Select a site that you want to work on:

Select	Name	Description	Roles
<input type="radio"/>	BurlingtonFinancial	Burlington Financial	WorkflowAdmin, SiteAdmin, GeneralAdmin
<input type="radio"/>	GE Lighting	GE Lighting	Designer, WorkflowAdmin, SiteAdmin, GeneralAdmin
<input type="radio"/>	HelloAssetWorld	Hello Asset World	WorkflowAdmin, GeneralAdmin
<input type="radio"/>	FirstSiteII	FirstSite Mark II	GeneralAdmin

[[Log in again](#)]

When you select a site, you are logged in to that site.



Portal Installations

Verify the installation by accessing the portal interface in a browser:

`http://<hostname>:<port>/portal`

JBossPortal Login

Home News Weather

Greetings!

1 Demo. 2 Download. 3 Accessorize.

This is a basic installation of **JBoss Portal 2.6.0-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

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.

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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,
The JBoss Portal Team.

Powered by JBoss Portal

Content Server is now ready for configuration. Follow the steps in the rest of this chapter.

Verifying Content Server Installations Running WEM Framework

1. Point your browser to the following URL:
`http://<hostname>:<port>/<context>/login`
2. Log in with the credentials of the general administrator that was used during the installation process (the default credentials are `fwadmin/xceladmin`).



FatWire Web Experience Management Version 1.0

SECURE USER LOGIN

FatWire SOFTWARE

Username

Password

[Forgot password?](#)

Login

Remember me

3. Click **Login**.
4. Select **AdminSite** and click the **Admin** icon (the first icon).



FatWire Web Experience Management Version 1.0

FatWire SOFTWARE

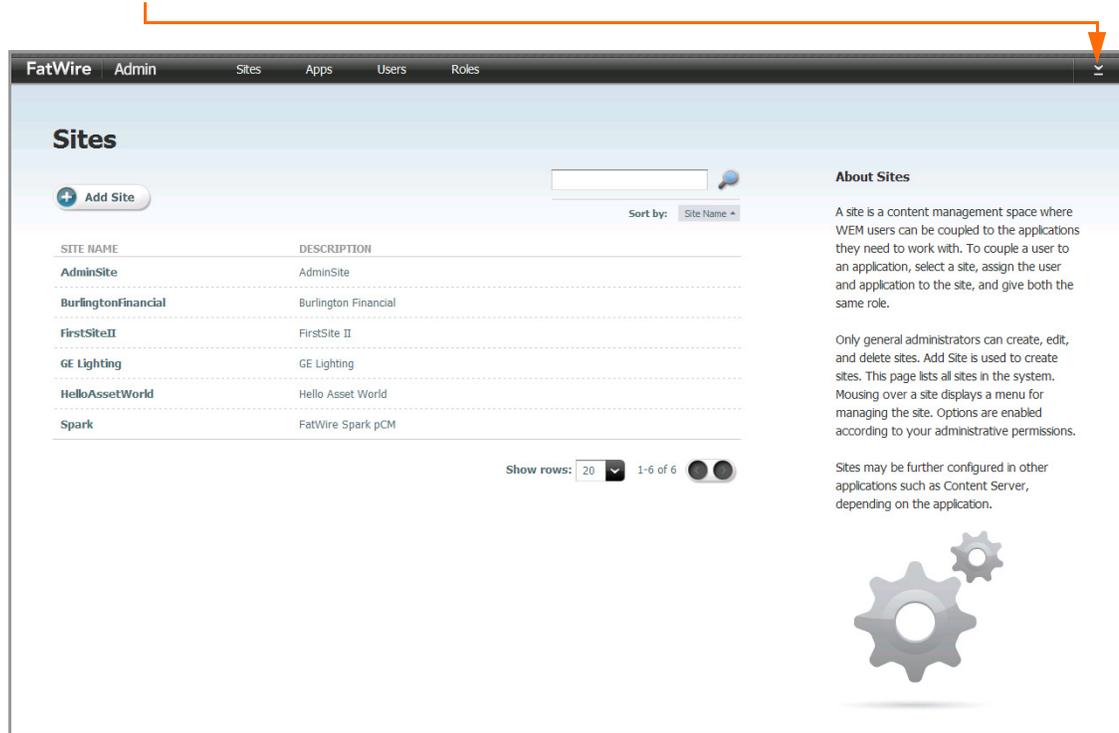
Site
AdminSite

App

CS ADV CS DASH CS HOSTE

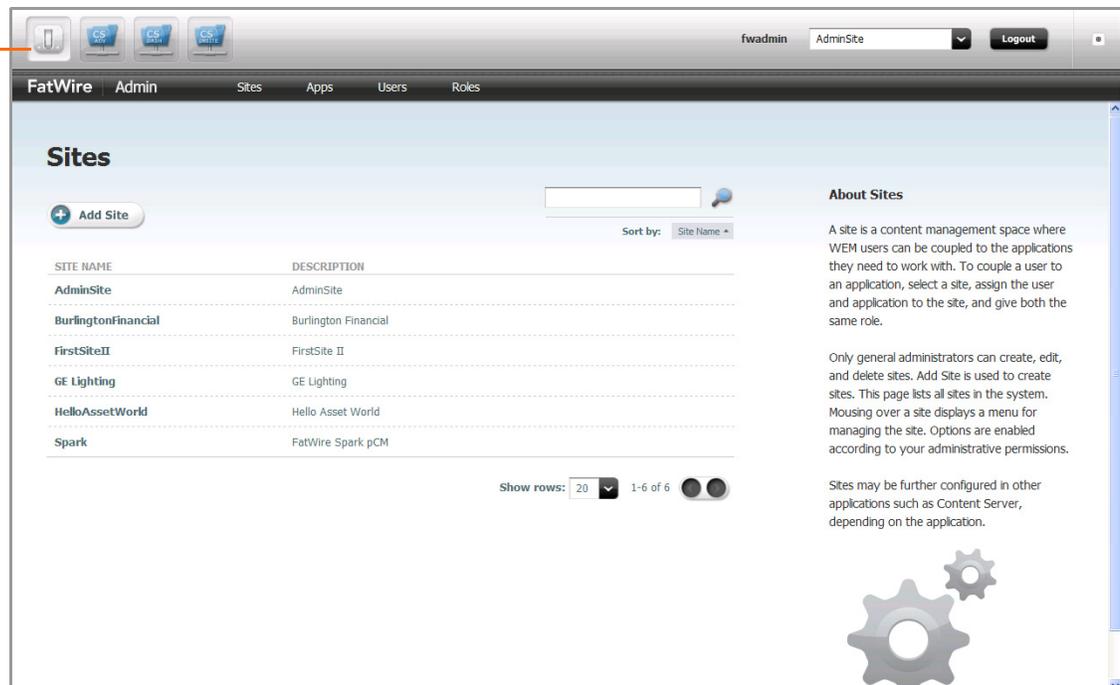
« Login again

- Click the arrow at the right of the WEM interface, then click the pin icon.



WEM displays the icons of registered applications assigned to the Admin Site. The **Sites**, **Users**, and **Roles** pages list all sites, users, and roles in the system. The **Apps** page lists default applications running on WEM: CS Advanced, CS Dash, and CS InSite interfaces.

WEM Admin



- Verify that CS Advanced and CS Dash display their interfaces as shown on pages 17–21.

Note

With WEM installed, the CS Advanced interface displays the **Security** node on the **Admin** tab (shown below), which supports the configuration of groups with privileges to REST resources used by applications running on WEM.

Security Node (CS Advanced Interface)

The screenshot displays the FatWire Content Server 7 Admin interface. The top navigation bar includes the user 'fwadmin', the site 'AdminSite', and a 'Logout' button. The main navigation pane on the left is titled 'Admin' and contains a tree view of administrative nodes. The 'Security' node is expanded, and the 'Configure Security' sub-node is highlighted with an orange arrow. The main content area on the right is titled 'My Work' and contains three sections: 'My Assignments' (no assets assigned), 'My Checkouts' (no assets checked out), and 'My Active List' (no items in the active list). A table header for 'My Active List' is visible, with columns for Type, Name, Description, Date Added, and Remove?.

Type	Name	Description	Date Added	Remove?
No items in your Active List				

Note

The general administrator that was used during the installation process (`fwadmin`) was added to the RestAdmin group in order to connect to REST services and therefore to the WEM Admin interface. **Do not delete this general administrator.**

If you need to create additional general administrators, follow the steps below:

1. Log in to Content Server Advanced as the general administrator that was used during the installation process.
2. Create a new general administrator.
 - Create the user:
Admin tab > Content Server Management Tools > User. For “Access Privileges” (ACLs), select at least: **Browser, ElementReader, PageReader, UserReader, xceleditor, xceladmin**
 - Enable the user on AdminSite:
Admin tab > Sites > AdminSite > Users > enter username > Select > click Edit (pencil) icon > select roles, at least: AdvancedUser, DashUser, GeneralAdmin, SiteAdmin, WorkflowAdmin
 - Assign the user to the RestAdmin group:
Admin tab > Security > Assign Users to Groups > Add New > assign to RestAdmin group.

User Groups

User Name	Groups
Arthur	'RestAdmin'
ContentServer	'RestAdmin'
fwadmin	'RestAdmin'

Add New

Site administrators on Content Server systems running WEM Framework must be manually assigned to the SiteAdmin_AdminSite group, a default REST security group similar to RestAdmin, but with fewer administrative privileges.

Redeploying CAS

If you installed WEM and need to redeploy CAS, you must do so manually. Follow up by removing CAS from the primary cluster member, and reconfigure Content Server to detect the CAS application's new server (locate the `SSOConfig.xml` file in the `WEB-INF/classes` directory of the `cs.war` file and update the `casURL` property to point to the server where CAS is redeployed).

Enabling Ehcache Beta

The Ehcache beta component is installed by default. It is disabled until the `cs.useEhcache` property is set to `true` for each JVM and Remote Satellite Server and until it is configured to work with Content Server. Enabling the Ehcache beta component creates the following tables in Content Server's database during runtime:

- `FW_InvalidationMemory`
- `FW_RegenCriteria`

Note

If you wish to enable the beta caching component, contact FatWire Technical Support.

Installing the Database Performance Utility

To improve Content Server performance, a database performance utility is provided with this release. This utility creates additional indexes for database tables.

To import the indexing utility

1. Unzip `DatabasePerformanceUtility.zip` (located in `Misc/DatabasePerformanceUtility/`).
2. Import the `sitecatalog` and `elementcatalog` into Content Server using `catalogmover` (located in the Content Server installation directory).
3. Execute the following:

```
http://<hostname>:<port>/<context-root>/
  Install?COMMANDNAME=READURL&USERNAME=ContentServer&PASSWORD=
  <password>&pagename=OpenMarket/Xcelerate/Installation/Asset/
  AddIndex
```

Installing Remote Satellite Server

Remote Satellite Server is used for loadbalancing. Installation instructions are available in the Satellite Server installation guide.

