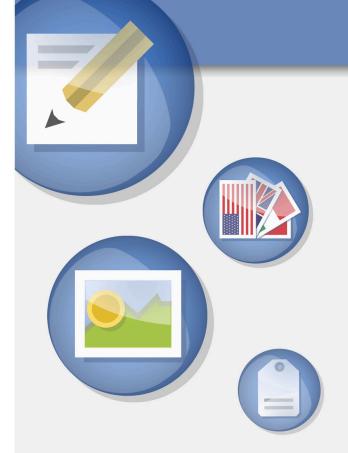
FatWire | Content Server 7

Version 7.0.1

Installing Content Server with WebLogic Server

Document Revision Date: Jul. 12, 2007





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Chapter 1 Introduction

This document provides guidelines for installing Content Server on WebLogic Server 9.2 and 10, connecting to the supported database of your choice.

Note

Anyone using this guide is expected to have experience installing and configuring databases, web servers, and application servers. Selected information regarding the configuration of third-party products is given in this guide. For detailed information about a particular third-party product, refer to that product's documentation.

This chapter provides information that will help you prepare for the Content Server installation. It contains the following sections:

- About This Guide
- Installation Quick Reference

About This Guide

This guide covers the installation, configuration, and maintenance of WebLogic Server 9.2 and 10, as required to support Content Server. This includes configuration of a domain with admin and managed servers, vertical clusters, and backend databases. The last chapter in this guide shows you how to install Content Server.

How This Guide is Organized

The content of this guide is organized by function rather than the order in which installation steps are completed. For example, a function such as application deployment is associated with the application server. It is presented in Part II (which covers the application server), even though it is performed later, when Content Server is installed (Part IV). Each major component of the Content Server installation is covered in its own part. A summary of the installation steps in the required order is given at the end of this chapter (see "Installation Quick Reference," on page 8).

Graphics in This Guide

Many steps in this guide display screen captures of dialog boxes and similar windows that you interact with in order to complete the steps. The screen captures are shown to help you follow the installation process. They are not intended to be sources of specific information, such as parameter values, options to select, or product version number.

Note

Screenshots in this guide reflect the WebLogic 9.2 interface. If you are using WebLogic 10, be aware that dialog boxes and other interface elements may appear slightly differently from the depictions presented in this guide; however, the described functionality is identical in both versions of WebLogic.

Paths and Directories

This guide uses the following paths and directories:

Name used by guide	Description
<domain_home></domain_home>	Path to the WebLogic domain; the path includes the domain name.
<cs_install_dir></cs_install_dir>	Path to the directory where Content Server is installed; the path does not include the name of the Content Server application.
<bea_home></bea_home>	Path to the directory where WebLogic is installed; the path includes the name of the directory.
<shared_dir></shared_dir>	Path to the shared folder on the given system; the path includes the name of the shared folder.



Name used by guide	Description
<bea_home>/ weblogic92</bea_home>	WebLogic Server directory used throughout this guide. If you are using WebLogic 10, replace this path with the following:
	<bea_home>/wlserver_10.0</bea_home>
<bea_home>/ workshop92</bea_home>	WebLogic Workshop directory used throughout this guide. If you are using WebLogic 10, replace this path with the following:
	<bea_home>/workshop_10.0</bea_home>
<deploy_dir></deploy_dir>	Path to the directory to which Content Server is deployed; the path includes the name of the deployment directory.
<content_dir></content_dir>	(Portal installations only) The content directory inside the directory containing your WebLogic Portal Web project.

Table 1: Paths and Directories (continued)

Installation Quick Reference

After you install and configure the J2EE components that support Content Server, you will run the Content Server installer, which will guide you through the installation process. You will run the installer on each development, delivery, and management system on which you plan to use Content Server. During the Content Server installation, you will have the option to install sample sites and sample content.

Note

The names of the systems in your Content Server environment might differ from the names used in this document. Typically, the management system is also called "staging," and the delivery system is also called "production."

The steps below summarize the installation and configuration of Content Server and its supporting software. Keep the steps handy as a quick reference to installation procedures and to chapters that provide detailed instructions.

To install Content Server and its supporting software

Complete the steps below for each development, content management, and production environment.

I. Set Up the Database

Set up your choice of supported databases by installing the database management system, creating a database for Content Server, and configuring the database. For instructions, refer to our configuration guide, *Configuring Third-Party Software*.

II. Set Up the Application Server

1. Install WebLogic Server. For instructions, see Chapter 3, "Installing WebLogic Server."

Note

This chapter also contains commands for starting and stopping the servers that are used in this guide.

- **2.** Depending on the type of installation you are creating (web or portal), do one of the following:
 - For web installations, create and configure a WebLogic server domain, as shown in "Creating and Configuring a WebLogic Server Domain," on page 24. This step requires you to:
 - 1) Create an admin server for the domain.
 - **2)** Create a managed server for a production environment and, if you choose to set up vertical clustering, a managed server for each cluster member.
 - 3) Name the domain.
 - For portal installations, create and configure a WebLogic portal domain, as shown in "Creating and Configuring a WebLogic Portal Domain," on page 48. The corresponding admin server is created for you automatically when you create the portal domain.

- **3.** Set up the environment for deployment and database communications. Depending on the type of installation you are creating (web or portal), this step requires you to:
 - **a.** (Web installations only) Set environment variables to ensure that all servers are using the correct JDK. For instructions, see "Setting Environment Variables," on page 37.
 - **b.** (Web installations only) Turn off host name verification for non-production systems. For instructions, see "Disabling Host Name Verification," on page 37.
 - c. (Web installations only) Enable HTTP tunneling on all servers on which Content Server will be deployed. Enabling tunneling enables you to run commands using the weblogic.Deployer utility (which deploys Content Server.) For instructions, see "Enabling HTTP Tunneling," on page 39.
 - **d.** Set up the data source. For instructions, see "Creating and Configuring a Data Source," on page 39.
- 4. For portal installations, create and configure a WebLogic portal application. For instructions, see "Creating and Configuring a WebLogic Portal Application," on page 56.

III. (Optional) Set Up the Web Server

If you plan to integrate WebLogic Server with either the Apache or IIS web server, follow instructions in Chapter 6, "Installing and Configuring the Web Server."

IV. Install Content Server

- **1.** Before you launch the installer, make sure that:
 - You have created the directory into which you are installing Content Server. The directory name and path cannot contain spaces and the application server must be able to read from and write to that directory.
 - For clustered installations, you have created the following:
 - A managed server. You will install Content Server on this server.
 - A shared file system directory that all cluster members can read from and write to; the directory name and path cannot contain spaces. Note the following:
 - For delivery systems, the default location of the shared file system directory is the directory containing the directory in which Content Server is installed.
 - For content management and development systems, the default location of the shared file system directory is inside the directory in which Content Server is installed.
 - You have added the JDK /bin directory to the path variable.
 - Your system is capable of displaying the CS installer GUI. The installer will not work in text mode.
- 2. Install Content Server by running the supplied installer. The installer provides online help at each screen, should you need guidance. For more information, see Chapter 7, "Installing and Configuring Content Server."

If you choose to deploy the CS application manually, you will have to deploy the application halfway through the installation when the installer displays the "Installation Actions" window. For instructions, see one of the following sections:

- For web installations, see "Deploying Web Applications," on page 44.
- For portal installations, see "Deploying Portal Applications," on page 66.

If you are using an Oracle database and will require text attributes greater than 2000 characters, you will have to set the cc.bigtext property to CLOB after the CS application is deployed. For instructions, see step 5 in "Running the Installer," on page 80.

- 3. Complete the Content Server installation by performing the following steps:
 - **a.** If you installed Content Server on Unix, set the permissions for Content Server binaries by following the steps in "Setting File Permissions (Unix Only)," on page 81.
 - **b.** Verify the Content Server installation by logging in as the administrator. For instructions, see "Verifying the Installation," on page 81.
 - **c.** If the CS system you installed is a delivery system, switch WebLogic to production mode. For instructions, see "Switching WebLogic to Production Mode (Delivery Systems Only)," on page 87.
 - **d.** If you are creating a portal installation, use WebLogic Workshop to create a WebLogic portal, add pages to the portal, and populate the pages with the appropriate Content Server portlets. For instructions, see "Setting Up the Portal (Portal Installations Only)," on page 88.
 - **e.** If you need to perform LDAP integration, follow the steps in "Integrating with LDAP (Required for Portal Installations)," on page 93. LDAP integration is mandatory for portal installations, and optional for web installations.
 - f. If you are creating a vertically clustered system, follow instructions in "Setting Up a Content Server Cluster (Optional)," on page 93.
 - **g.** Once the entire installation is completed and verified, set up Content Server for its business purpose. For instructions, see the *Content Server Administrator's Guide* and the *Content Server Developer's Guide*.

Part 1

Database

This part contains a short chapter summarizing the databases that Content Server uses. Instructions on creating and configuring the databases are given in our guide *Configuring Third-Party Software*.

This part contains the following chapter:

• Chapter 2, "Setting Up a Database"

Chapter 2 Setting Up a Database

Content Server requires access to a database that is specifically configured for Content Server. The list of supported databases (as well as other third-party components) is given in the *Supported Platform Document*, accessible from:

http://e-docs.fatwire.com/CS

(Click the Content Server version number, and on the Content Server page, click the **Supported Platform Document** link.)

Before installing any other of Content Server's supporting software, you must complete the following steps:

- **1.** Install the database management system. For instructions, refer to the product vendor's documentation.
- **2.** Create and configure a database for Content Server. For instructions, consult our guide *Configuring Third-Party Software*. Note that database configuration is identical across different application servers. Refer to the correct chapter to create and configure the database of your choice.

Part 2 Application Server

This part contains information about installing and configuring WebLogic Server as well as integrating WebLogic Server with either the Apache or IIS web server.

This part contains the following chapter:

- Chapter 3, "Installing WebLogic Server"
- Chapter 4, "Configuring WebLogic Server for Web Installations"
- Chapter 5, "Configuring WebLogic Server for Portal Installations"

Chapter 3 Installing WebLogic Server

This chapter contains information about installing WebLogic Server to support and deploy your Content Server web application.

This chapter contains the following sections:

- Start/Stop Commands
- Installing WebLogic Server

Start/Stop Commands

This section lists commands that are used in this guide for managing WebLogic Server.

- Start the admin server:
 <domain_home>/startWebLogic.sh
- Stop the admin server:

<domain_home>/bin/stopWebLogic.sh

- Start the node manager:
 <bea_home>/weblogic92/server/bin/startNodeManager.sh
- Start a managed server:
 <domain_home>/bin/startManagedWebLogic.sh <managed_server_name> http://<listening address>:<admin port>
- Stop a managed server:

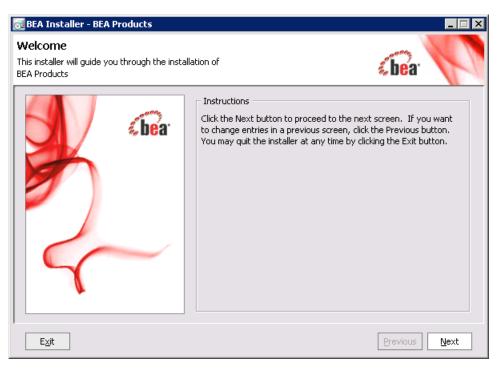
<domain_home>/bin/stopManagedWebLogic.sh <managed_server_name> http://<listening_address>:<admin_port>

• Start WebLogic Workshop:

<bea_home>/workshop92/workshop4WP/workshop4WP.sh

Installing WebLogic Server

- 1. Run the WebLogic Server installer (on Unix, make sure your DISPLAY variable is set).
- **2.** At the "Welcome" screen, click **Next**.



3. Click Yes to accept the BEA License Agreement.

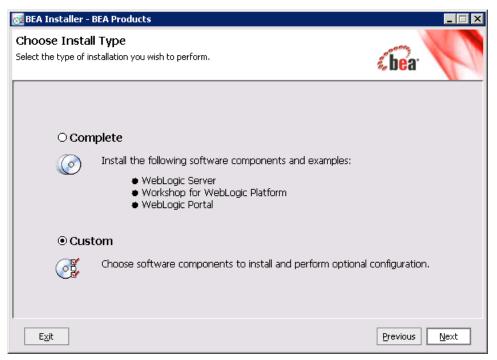
4. Either use an existing BEA home directory or select **Create a new BEA Home** and browse for a directory. Click **Next**.

🛃 BEA Installer - BEA Products	
Choose BEA Home Directory Specify the BEA Home where you wish to install BEA Products.	«bear
BEA Home Type C:\bea O Use an existing BEA Home C:\bea O Create a new BEA Home C:\bea	
BEA Home Directory	
C:\bea	
Browse Reset	
Exit	Previous Next

Note

The BEA home directory will be referred to throughout this guide as <bea_home>.

5. Select Custom Install Type and click Next.



6. Deselect WebLogic Portal. If you will be using a web server, select Web Server Plug-Ins. Click Next.

🛃 BEA Installer - BEA Products	
Choose Components Select the components you wish to install. Greyed components are already installed.	Ebe ar
WebLogic Server Server Examples Web Server Plug-Ins Workshop for WebLogic Platform Workshop Workshop Examples WebLogic Portal Portal Server WebLogic Workshop Portal Extension Portal Examples	Description Provides a unified development platform that enables developers to easily build and connect components, data, and application business logic, while insulating them from the complexities of J2EE.
Exit	Previous Next

- 7. Deselect Mercury profiling tools and click Next.
- 8. On the next three screens, click Next.

9. The installation starts. Close the window after completion.

🔂 BEA Installer - BEA Products	
 BEA WebLogic Server[®] 9.2 Zero-Downtime Server Do more with less disruption to service Blended Application Development Fosters developer choice and productivity Administrative Productivity Better visibility, reliable change, and enhanced lifecycle management Market-Leading Performance Multiple SpecJAppserver world records Lower TCO 	¢ bea
Installingdoc.zip	0%
E⊻it	Previous Next

10. Do one of the following:

Note

If you installed WebLogic Server 9.2 MP1 or WebLogic Portal 9.2 MP1, install the CR308102 public patch now.

- If you are creating a web installation, continue with Chapter 4, "Configuring WebLogic Server for Web Installations" to configure a WebLogic domain.
- If you are creating a portal installation, continue with Chapter 5, "Configuring WebLogic Server for Portal Installations" to configure a WebLogic portal.

Chapter 4

Configuring WebLogic Server for Web Installations

This chapter contains information about configuring WebLogic Server to support and deploy your Content Server web application.

This chapter contains the following sections:

- Creating and Configuring a WebLogic Server Domain
- Setting Environment Variables
- Disabling Host Name Verification
- Enabling HTTP Tunneling
- Creating and Configuring a Data Source
- Deploying Web Applications

Creating and Configuring a WebLogic Server Domain

In the steps below, you will be creating a WebLogic domain and configuring the domain by adding an admin server. If you are creating a production system, you will also add a managed server to the domain, and if you are creating a cluster, you will add a managed server for each cluster member.

To create and configure a WebLogic Server domain

- Change directories to <bea_home>/weblogic92/common/bin and run config.sh(.bat for Windows).
- **2.** Create a domain:
 - a. On the "Welcome" screen, select Create a new WebLogic domain and click Next.

BEA WebLogic Configuration Wizard		
Welcome Choose between creating and extending a domain. Based on your selection, the Configuration Wizard guides you through the steps to generate a new or extend an existing domain.	«bea	P
◉ Create a new WebLogic domain		
Create a WebLogic domain in your projects directory.		
O Extend an existing WebLogic domain		
Extend an existing WebLogic domain.		
Use this option to add applications and services, or to override existing database access (JDB0 messaging (JMS) settings. You can also incorporate additional functionality in your domain, for example, by including AquaLogic Service Bus.	I) and	
E <u>x</u> it <u>H</u> elp	<u>P</u> revious	<u>N</u> ext

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b. Select **Base this domain on an existing template** and click **Next**.

BEA WebLogic Configuration Wizard		
Select Domain Source Select the source from which the domain will be created. You can create the domain by clicking	(here	5
on the required components or by selecting from a list of existing domain templates.	% U c a	
\odot Generate a domain configured automatically to support the following BE	A products:	
WebLogic Server (Required)		
Workshop for WebLogic Platform		
🗌 WebLogic Portal		
WebLogic Portal GroupSpace Framework		
WebLogic Portal GroupSpace Application		
• Base this domain on an existing template		
	rowse	
E <u>x</u> it <u>H</u> elp	Previous	<u>N</u> e×t

c. Enter a domain user name and password and click Next.

•	BEA WebLogic Configurati	on Wizard	
С	reate a user to be assigned to t	r Username and Password he Administrator role. rator used to start development mode servers.	(bea [.]
	👌 Dis <u>c</u> ard Changes		
	*User name:	weblogic	
	*User password:		
	*Confirm user password:	********	
	Description:	This user is the default administrator.	
	E <u>x</u> it <u>H</u> elp		Previous Next

d. Select **Development Mode** and the Sun SDK (in the "BEA Supplied JDKs" list box). For production environments, the domain will be changed to **Production Mode** later in this guide (step C on page 87). Click **Next**.

BEA WebLogic Configuration Wizard					
Configure Server Start Mode and JDK Choose the WebLogic domain startup mode and the J2SE Development Kit (JDK) to be used for the domain.					
Environment" at http://e-docs.bea.com/wls/docs90/lockdown	oping and testing your applications with WebLogic JRockit early in the project				
WebLogic Domain Startup Mode	JDK Selection				
Development Mode Utilize boot.properties for username and password and poll for applications to deploy. Sun JDK recommended for better startup performance during iterative development.	BEA Supplied JDKs JRockit SDK 1.5.0_04 @ /u01/software/Apps/WebLog Sun SDK 1.5.0_04 @ /u01/software/Apps/WebLogic9				
Production Mode Require the entry of a username and password and do not poll for applications to deploy. WebLogic JRockit JDK recommended for better runtime performance and management.	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓				
E <u>x</u> it <u>H</u> elp	Previous Next				

28

e. In the "Customize Environment and Services Settings" screen, select Yes and click Next.

BEA WebLogic Configuration Wizard	
Customize Environment and Services Settings If desired, you can customize your domain by changing some of the configuration settings already defined in your domain source.	Chea r
Do you want to customize any of the following options?	
The configuration of the Administration Server, including listen address and listen ports	
 The number of Managed Servers and attributes, including listen ports 	
 The number of clusters and cluster attributes 	
 The number of machines and machine attributes 	
 The assignment of servers to clusters and machines 	
 JDBC data sources (if defined) 	
 JMS file store directories (if defined) 	
To keep the settings defined in the domain source and proceed directly to creating your domain, leave No selected.	
Unu Gres	
E <u>x</u> it <u>H</u> elp	Previous <u>N</u> ext

In the screens that follow, you will configure the domain by adding an admin server and managed servers as necessary.

- **3.** Configure the admin server:
 - a. Enter a name, listening address, and port for the admin server.
 - **b.** Click Next.

BEA WebLogic Cor	nfiguration Wizard	
Enter adminstration se	ministration Server rver configurations. Each WebLogic Server domain must have one Administration Server. ver hosts the Administration Console which is used to perform administrative tasks.	Ebea r
🕐 Dis <u>c</u> ard Changes		
*Name:	AdminServer	
Listen address:	10.120.19.219	↓
Listen port:	7001	
SSL listen port:	N/A	
SSL enabled:		
E <u>x</u> it <u>H</u> elp		Previous Next

Note

Throughout this guide, the values that you entered will be referred to as <listening_address> and <admin_port>.

- **4.** Add a managed server:
 - a. Click Add and enter a name, listening address, and port.

Note

- For a production environment, a managed server is recommended.
- If you are creating a cluster, a managed server is required for each cluster member. Your options are to:
 - Create all the managed servers in this step
 - Create a managed server for the primary cluster member in this step, but postpone creating the remaining managed servers until CS is installed on the primary member. If you choose the latter option, you will need to follow instructions in "Setting Up a Content Server Cluster (Optional)," on page 93.

b. Click Next.

	BEA WebLogic Configur	ration Wizard			(
A		ervers nformation for Managed Serve ged Server is an instance of We			bea	P
	📴 <u>A</u> dd 🗙 <u>D</u> elete 💆	Dis <u>c</u> ard Changes			<u>S</u> witch	n Display
	Name*	Listen address	Listen port	SSL listen port	SSL enabled	
	→ 1 ManagedServer	10.120.19.219	7002	N/A		
	•					•
1	E <u>x</u> it <u>H</u> elp				Previous	<u>N</u> e×t

- 5. If you are *not* creating a cluster, click **Next** and skip to step 6 on page 33. Otherwise, create and configure a cluster:
 - **a.** Create a cluster:
 - 1) Click Add.
 - **2)** Enter a name for the cluster.
 - 3) In the Multicast port field, enter the admin server listening port.
 - 4) Click Next.

🗟 BEA WebLo	gic Config	uration Wizard		
	onfiguration		contains multiple WebLogic Server instanc 7. A cluster appears to be a single WebLog	
📑 <u>A</u> dd 🔤	🕻 <u>D</u> elete 🛛 🖱) Dis <u>c</u> ard Changes		Switch Display
Name	*	Multicast address	Multicast port	Cluster address
→ 1 csClu	ister	239.192.0.0	7001	
•				Þ
Exit	<u>H</u> elp			Previous Next

b. Add the managed server(s) to the cluster (by clicking the managed server(s) and clicking the right arrow). Click **Next**.

BEA WebLogic Configuration Wizard		
Assign Servers to Clusters Assign Managed Servers to a cluster in the domain.		«bea
Select a cluster in the right pane. Then select the managed serve arrow button.		m to the cluster by clicking the right
Server	Cluster o csCluster	
	→	
	~	
E <u>x</u> it <u>H</u> elp		Previous Next

- **6.** Configure the node manager:
 - a. Click Add and enter a name and listening address. Click Next.

💽 BEA	WebLogic Configuration Wizar	d	
Add or		r machines. A machine is the logical representatio ation Server and Node Manager application use the	
м	achine Unix Machine		
₽	<u>A</u> dd 🗙 <u>D</u> elete 🖰 Dis <u>c</u> ard Cha	nges	
	Name*	Node manager listen address	Node manager listen port
\rightarrow	1 csNodeMgr	10.120.19.219	5556
	4		
Ex	it <u>H</u> elp		Previous Next

b. Add both the admin and managed servers to the node manager using the right arrow. Click **Next**.

BEA WebLogic Configuration Wizard			
Assign Servers to Machines Assign each WebLogic Server instance to the machine on which it	runs.		(bea [.]
Select a machine in the right pane. Then select the server(s) in the button.	ne left pane		g the right arrow
Server		Machine Machine CSNOdeMgr AdminServer ManagedServer	
	→		
	+		
E <u>x</u> it <u>H</u> elp		[Previous <u>N</u> ext

7. After reviewing the domain configuration, click Next.

8. Enter a name for the domain and the path where the domain will be created. Click **Create**.

Create WebLogic Domain When you click Create the domain will be generated in the location specified.	7
Enter the name and location for the domain:	
Domain name: csDomain	
Domain location: /u01/software/Apps/WebLogic9.2/user_projects/domains Browse	
E <u>x</u> it <u>H</u> elp <u>Previous</u>	7

Note

The path to the domain will be referred to throughout this guide as <domain_home>.

9. The domain installation begins. When the installation is complete, click **Done**.

BEA WebLogic Configuration Wizard		
Creating Domain		Ebea r
cbea	Progress: O% Preparing Extracting Domain Contents	
Exit Help		<u>P</u> revious Done

10. Your next steps are the following:

- **a.** For all systems (production and otherwise), set the environment variables to ensure that all servers are using the correct JDK. For instructions, go to "Setting Environment Variables," on page 37.
- **b.** For non-production environments, disable host name verification. For instructions, go to "Disabling Host Name Verification," on page 37.
- c. For all servers on which CS will be deployed, enable HTTP tunneling in order to support command-line deployment, using the weblogic.Deployer or weblogic.Admin utilities. For instructions, go to "Enabling HTTP Tunneling," on page 39.

Setting Environment Variables

Setting environment variables ensures that each server is using the right JDK.

To set environment variables

- **1.** Log into the Administration Console.
- 2. Expand Environment in the tree.
- 3. Click Servers.
- 4. Click ServerName.
- 5. Click the **Configuration** tab.
- 6. Click Server Start.
- 7. Click Lock & Edit.
- 8. For "Java Home," enter the path to the WebLogic JDK (<bea_home>/jdk150_04).
- 9. For "Java Vendor," enter Sun.
- 10. Click Save.
- 11. Click Accept Changes.
- 12. Repeat this procedure for each server in the system.
- **13.** The next step is to disable host name verification for non-production environments. Follow instructions in the next section.

Disabling Host Name Verification

For non-production environments, you may decide to disable host name verification. This section explains how to do so from both the command line and the administration console.

Note

After host name verification is disabled:

- 1. Enable HTTP tunneling in order to prepare the web application for commandline controlled deployment. For instructions, see "Enabling HTTP Tunneling," on page 39.
- **2.** Create the data source. For instructions, see "Creating and Configuring a Data Source," on page 39.

Command Line

For both the startWebLogic.sh and startManagedWebLogic.sh scripts (.bat in Windows) located in domain_home/bin, edit the script by inserting the following line after the first large comment block:

```
JAVA_OPTIONS="${JAVA_OPTIONS} -
    Dweblogic.security.SSL.ignoreHostnameVerification=true"
```

Administration Console

- **1.** Start the admin server.
- Change to the <domain_home> directory and run startWebLogic.sh(.bat for Windows).
- **3.** After the admin server has started, open a web browser and log in to the "WebLogic Server Administration Console" at:

http://<listening_address>:<admin_port>/console

- 4. In the tree at the left of the screen, expand **Environment**.
- 5. Click Servers.
- 6. For each of the servers listed:
 - **a.** Click the server name.
 - **b.** Click the **Configuration** tab.
 - c. Click SSL.
 - d. Click Advanced.
 - e. Click Lock & Edit in the upper left corner.
 - f. From the drop-down menu labeled Hostname Verification, select None.
 - g. Click Save.
- 7. Click Activate Changes.

No pending changes exist. Click the Release Configuration button to allow others to edit the	Settings for AdminServer			
domain.	Configuration Protocols Logging D	bebug Monitoring Control Deployments Services	Security Notes	
Lock & Edit Release Configuration	General Cluster Services Key	stores SSL Federation Services Deployment	Migration Tuning Overload Health Monitoring Se	erver Start
omain Structure	This page lets you view and define	e various Secure Sockets Laver (SSL) settings for this s	erver instance. These settings help you to manage the set	urity of
sDomain E-Environment Servers	message transmissions.		2 2	•
	Identity and Trust Locations:	Keystores 💌	Indicates where SSL should find the server's identity (c private key) as well as the server's trust (trusted CAs).	
Machines Work Managers	· Identity			
	Private Key Location:	from Demo Identity Keystore	The keystore attribute that defines the location of the p More Info	rivate key file
Security Realms ∃-Interoperability ∃-Diagnostics	Private Key Alias:	DemoIdentity	The keystore attribute that defines the string alias used retrieve the server's private key. More Info	to store and
ow do I 💽	Private Key Passphrase:	*****	The keystore attribute that defines the passphrase used the server's private key. More Info	d to retrieve
Configure identity and trust Set up SSL Verify host name verification is	Certificate Location:	from Demo Identity Keystore	The keystore attribute that defines the location of the tr certificate. More Info	usted
enabled	· Trust			
Configure a custom host name verifier Configure two-way SSL	Trusted Certificate Authorities:	from Demo Trust Keystore and Java Standard Trust Keystore	The keystore attribute that defines the location of the c authorities. More Info	ertificate
ystem Status 💿	✓ Advanced			
Health of Running Servers Failed (0)	🚑 Hostname Verification:	None	Specifies whether to ignore the installed implementatio weblogic.security.SSL.HostnameVerifier interface (whe acting as a client to another application server). More II	n this server
Critical (0)	🚑 Custom Hostname Verifier:		The name of the class that implements the weblogic.security.SSL.HostnameVerifier interface. More	
Warn (0)	Export Key Lifespan:	500	Indicates the number of times WebLogic Server can use key between a domestic server and an exportable clien	

Enabling HTTP Tunneling

Note

The steps in this section must be completed before Content Server is deployed.

In order to run commands using the weblogic.Deployer or weblogic.Admin utilities, HTTP tunneling must be enabled on each server. This section explains how to enable tunneling for any server that will be controlled from the command line.

To enable HTTP tunneling

- 1. Log in to the administration console.
- 2. Expand Environment on the left hand side.
- 3. Click Servers.
- 4. For the admin server and each managed server:
 - **a.** Click the server name.
 - **b.** Click the **Protocols** tab.
 - c. Click General.
 - d. Click Lock & Edit.
 - e. Click the Enable Tunneling check box.
 - f. Click Save.
- 5. Click Activate Changes.
- 6. The next step is to create a data source. Follow instructions in the next section.

Creating and Configuring a Data Source

This section explains how to create a data source for any of the supported databases using the WebLogic Server Administration Console. This section assumes the admin server has already been started. Two basic steps then need to be completed:

A. Create the Data Source

B. Configure the Connection Pool Size

Note

If you are using an Oracle database and require text attributes greater than 2000 characters, you will have to set cc.bigtext to CLOB. To support CLOB, use Oracle database 9.2.0.6 (or a higher supported version). Also use Oracle 10g drivers. (CLOB is not supported for lower database versions and for Oracle drivers 9x [thin, type 4].)

You will set cc.bigtext to CLOB when you run the Content Server installer (as explained in "Running the Installer," on page 80.)

A. Create the Data Source

- 1. Log in to the WebLogic Server Administration Console.
- **2.** In the tree at the left:
 - a. Expand Services.
 - b. Expand JDBC.
 - c. Click Data Sources.
- 3. Click New.
- 4. In the "Create a New JDBC Data Source" screen, enter the following values:
 - **a.** A name for the data source.
 - **b.** jdbc/<datasource name> for the JNDI name.
 - c. A database type/driver pair. Your choices are:
 - MS SQL Server / BEA's MS SQL Server Driver (Type 4)
 - Oracle / BEA's Oracle Driver (Type 4)
 - DB2 / BEA's DB2 Driver (Type 4)

Change Center	Welcome, weblogic	Connected to: csDomain	🏠 Home	Log Out	Preferences	Help	AskBEA
View changes and restarts	Home > Summary of Services: JDBC > Summary of JDBC Data Sources	·					
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source Back Next Finish Cancel						
Lock & Edit Release Configuration	JDBC Data Source Properties The following properties will be used to identify your new JDBC data	source.					
Domain Structure	What would you like to name your new JDBC data source?						
csDomain ⊡-Environment	Name: csDataSource1						
—Deployments =-Services	What JNDI name would you like to assign to your new JDBC Data :	Source?					
B-JDBC Data Sources Data Sources Data Source Factories Persistent Stores Path Services Foreign JNDI Providers	jdbc/csDataSourcel						
Work Contexts XML Registries XML Entity Caches	What database type would you like to select?						
jCOM Mail Sessions File T3	Database Type: DB2						
JTA Security Realms	What database driver would you like to use to create database co	nnections?					
⊡-Interoperability ⊡-Diagnostics	Database Driver: *BEA's DB2 Driver (Type 4)	Versions:7X8X					
How do I 🖬	Back Next Finish Cancel						

5. Click Next.

sources

6. Click Next in the screen that follows.

7. For "Connection Properties," enter the database name, host name for the database server, port, user name, and password. Click **Next**.

WEBLOGIC SERVI	ER DLE							
Change Center	Welcome, weblogic		Connected to: csDomain	🏠 Home	Log Out	Preferences	Help	AskBEA
View changes and restarts	Home > Summary of Services: JDBC > Summary of	JDBC Data Sources	· · · · ·					
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source Back Next Finish Cancel							
Lock & Edit Release Configuration	Connection Properties Define Connection Properties.							
Domain Structure	What is the name of database you	u would like to connect to?						
csDomain BEnvironment	Database Name:	VMWL92						
Deployments EServices	What is the name or IP address o	f the database server?						
B-Messaging E-JDBC →Data Sources	Host Name:	10.120.19.219						
Multi Data Sources Data Source Factories Persistent Stores	What is the port on the database :	server used to connect to the database	9?					
Path Services Foreign JNDI Providers	Port:	50002						
Work Contexts XML Registries	What database account user name	e do you want to use to create databa	se connections?					
XML Entity Caches jCOM Mail Sessions	Database User Name:	csuser						
File T3	What is the database account pas	sword to use to create database conn	ections?					
Security Realms ⊕-Interoperability ⊕-Diagnostics	Password:							
How do I	Confirm Password:							
 Create JDBC data sources Create LLR-enabled JDBC data sources 	Back Next Finish Cancel							

8. Verify that the data source information is correct, and click **Test Configuration**. This will test your data source. If the test fails, review your data source information, and try again. When the test succeeds, click **Next**.

to allow others to edit the domain.	🗹 Connection test succeeded.	
Lock & Edit	Create a New JDBC Data Source	
Release Configuration	Test Configuration Back Nex	t Finish Cancel
Domain Structure	Test Database Connection	
csDomain	Test the database availability and	I the connection properties you provided.
i Environment		
Deployments		
E-Services	classpath of any server to white	of JDBC driver class used to create database connections in the connection pool? (Note that this driver class must be in the
	classpace of any server to write	in it is deployed.)
-Data Sources	Driver Class Name:	weblogic.idbc.db2.DB20
-Multi Data Sources	Driver class name:	webiogic.jdbc.dbz.bbzy
Data Source Factories		
Persistent Stores	What is the URL of the databas	se to connect to? The format of the URL varies by JDBC driver.
Path Services		
Foreign JNDI Providers Work Contexts	URL:	jdbc:bea:db2://10.120.19
XML Registries		
-XML Entity Caches	What database account user n	ame do you want to use to create database connections?
jCOM		
-Mail Sessions	Database User Name:	csuser
File T3		
ATC	What is the database account	password to use to create database connections?
Security Realms ⊡Interoperability		
⊞-Diagnostics	Password:	
How do I	Confirm Password:	
Create JDBC data sources		
Create LLR-enabled JDBC data	What are the properties to pas	is to the JDBC driver when creating database connections?
sources		
		user=csuser
System Status		portNumber=50002
	Properties:	databaseName=VHWL92 serverName=10,120,19,219
Health of Running Servers	Properues.	setvername=10.120.19.219 batchPerformanceWorksround=true
Failed (0)		~
Critical (0)		
Overloaded (0)	What table name or SQL state	ment would you like to use to test database connections?
Over loaded (0)		
Warn (0)		SQL SELECT COUNT(*) FROM SYSIBM. SYSTABLES

9. Check both the admin and managed servers and click Finish.

Change Center	Welcome, weblogic	Connected to: csDomain	🟠 Home 🛛 Log Out	Preferences	Help AskBE
View changes and restarts	Home > Summary of Services: JDBC > Summary of JDBC Data Source	es			1
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source Back Next Finish Cancel Select Targets				
Release Configuration	You can select one or more targets to deploy your ne You will need to deploy the data source at a later time		lata source will be create	ed but not deploye	d.
Oomain Structure	Servers				
csDomain B - Environment - Deployments B - Services B - Messaging B - JDBC - Data Sources - Parti Services - Foreign JND Providers - Work Contexts - Work Contexts - XML Entity Caches - XML Entity Caches - Sourity Realms B - Interoperability B - Diagnostics 	AdminServer ManagedServer Back Next Finish Cancel				
ow do I 💽					

10. Click Activate Changes.

B. Configure the Connection Pool Size

The default values allow a connection pool to contain only up to 15 physical connections. This value needs to be increased.

- **1.** In the left-hand tree:
 - a. Expand Services.
 - b. Expand JDBC.
 - c. Click Data Sources.
- 2. Click on the newly created data source.
- **3.** In the **Configuration** tab click **Connection Pool**.
- 4. Click Lock & Edit.
- 5. For "Initial Capacity," enter 10 and for "Maximum Capacity," enter 100.
- 6. Click Save.
- 7. Click Accept Changes.
- **8.** Your next step is one of the following:
 - If you wish to integrate with the Apache or IIS web server, follow instructions in Chapter 6, "Installing and Configuring the Web Server."
 - To install Content Server, follow instructions in Chapter 7, "Installing and Configuring Content Server."

Deploying Web Applications

This section shows you how to deploy a web application on WebLogic Server using the weblogic.Deployer utility. You will refer to the steps below halfway through the Content Server installation (Chapter 7).

A. Set Up the Environment for weblogic.Deployer

Note

The weblogic.Deployer command set requires its environment to be configured. This environment must not be used for installing Content Server.

- 1. Set the JAVA_HOME environment variable to the WebLogic JDK located in

- 2. Finish setting up the environment by sourcing the setWLSEnv.sh/cmd script found in <bea_home>/weblogic92/server/bin. This is done on Unix with . setWLSEnv.sh or source setWLSEnv.sh.

B. Deploy the Web Application

- 1. Start the admin server.
- **2.** If you are deploying in a production environment, start the node manager and the managed server.
- **3.** Deploy the web application.

Note

The deployment name takes the name of the directory that the application was deployed to, or the name that the application was given during the Content Server installation:

- **4.** When the application has been deployed, it will start automatically. You can stop, start, or undeploy the application with the following commands:
 - Stop the application:

- Start the application:

- Undeploy the application:

Deploying Web Applications

Chapter 5

Configuring WebLogic Server for Portal Installations

This chapter contains information about configuring WebLogic Server to support and deploy your Content Server portal application.

This chapter contains the following sections:

- Creating and Configuring a WebLogic Portal Domain
- Creating and Configuring a Data Source
- Creating and Configuring a WebLogic Portal Application
- Deploying Portal Applications

Creating and Configuring a WebLogic Portal Domain

In the steps below, you will be creating and configuring a WebLogic Portal domain and the admin server that is created in the process.

To create and configure a WebLogic portal domain

1. Run the WebLogic Configuration Wizard by executing the following command:

<bea_home>/weblogic92/common/bin/config.sh

2. In the "Welcome" screen, select Create a New WebLogic Domain. Click Next.

BEA WebLogic Configuration Wizard		
Welcome Choose between creating and extending a domain. Based on your selection, the Configuration Wizard guides you through the steps to generate a new or extend an existing domain.	(be a [.]	2
⊙ Create a new WebLogic domain		
Create a WebLogic domain in your projects directory.		
O Extend an existing WebLogic domain		
Extend an existing WebLogic domain. Use this option to add applications and services, or to override existing database access (JDBC) and messaging (JMS) settings. You can also incorporate additional functionality in your domain, for exam including AquaLogic Service Bus.		
Exit Help	Previous	Next

- **3.** In the "Select Domain Source" screen, do the following:
 - **a.** Select Generate a domain configured automatically to support the following BEA products.
 - **b.** Select the **WebLogic Portal** check box.
 - c. Click Next.

🛐 BEA WebLogic Configuration Wizard		
Select Domain Source Select the source from which the domain will be creat on the required components or by selecting from a li		«bear
© Comprete a damai	n configured automatically to compart the following	
	n configured automatically to support the followin	g BEA products:
WebLogic Serve Workshop for ₩		
WebLogic Portal	eologic Platform	
	GroupSpace Framework	
webLogic Portai	GroupSpace Application	
O Base this domain	on an existing template	
	C:\bea\weblogic92\common\templates\domains\wls.jar	Browse
		Previous Next

4. Enter a user name and password for the administrator of the portal domain. Click Next.

A WebLogic Configuratio	h Wizard	
e a user to be assigned to th	• Username and Password le Administrator role. lor used to start development mode servers.	«bea
Discard Changes		
*User name:	weblogic	
*User password:	****	
*Confirm user password:	****	
Description:	This user is the default administrator.	
		Previous

FatWire

- 5. In the "Configure Server Start Mode and JDK" screen, do the following:
 - **a.** In the "Startup Mode" area, select **Development Mode**. For production environments, the domain will be changed to **Production Mode** later in this guide (step C on page 87).
 - **b.** In the "JDK Selection" area, select **BEA Supplied JDKs** and select the Sun SDK from the list.

BEA WebLogic Configuration Wizard	
Configure Server Start Mode and JDK Choose the WebLogic domain startup mode and the J2SE Developm to be used for the domain.	nent Kit (JDK)
http://e-docs.bea.com/wls/docs90/lockdown/index.html.	you familiarize yourself with the content of "Securing a Production Environment" at ping and testing your applications with WebLogic JRockit early in the project cycle. For documentation.
WebLogic Domain Startup Mode	JDK Selection
Development Mode Utilize boot.properties for username and password and poll for applications to deploy. Sun JDK recommended for better startup performance during iterative development.	BEA Supplied JDKs JRockit SDK 1.5.0_04 @ C:\bea\jrockit90_150_04 Sun SDK 1.5.0_04 @ C:\bea\jdk150_04
Production Mode Require the entry of a username and password and do not poll for applications to deploy. WebLogic JRockit JDK recommended for better runtime performance and management.	Other JDK Location: Browse
Exit Help	Previous Next

6. In the "Customize Environment and Services Settings" screen, select No. Click Next.

BEA WebLogic Configuration Wizard	
Customize Environment and Services Settings If desired, you can customize your domain by changing some of the configuration settings already defined in your domain source.	Kbear V
Do you want to customize any of the following options?	
The configuration of the Administration Server, including listen address and listen ports	
The number of Managed Servers and attributes, including listen ports	
 The number of clusters and cluster attributes 	
 The number of machines and machine attributes 	
• The assignment of servers to clusters and machines	
• JDBC data sources (if defined)	
• JMS file store directories (if defined)	
To keep the settings defined in the domain source and proceed directly to creating your domain, leave No selected.	
. ● No O Yes	
E <u>x</u> it <u>H</u> elp	Previous Next

7. Enter a name for the domain, and the path where the domain will be created. (This path will be referred to throughout this guide as <domain_home>.) Click Create.

BEA WebLogic Configuration Wizard			
Create WebLogic Domain When you click Create the domain will be generated	l in the location specified.		«bear
Enter the nar	me and location for the domain:		
Domain name:	portalDomain		
Domain location:	C:\bea\user_projects\domains	Browse	
Exit Help			Previous Create

- 8. When the creation process is complete, click **Done**.
- 9. Start the admin server.

Creating and Configuring a Data Source

This section explains how to create a data source for any of the supported databases using the WebLogic Server Administration Console. This section assumes the admin server has already been started. Two basic steps then need to be completed:

A. Create the Data Source

B. Configure the Connection Pool Size

A. Create the Data Source

- 1. Log in to the WebLogic Server Administration Console.
- **2.** In the tree at the left:
 - a. Expand Services.
 - **b.** Expand **JDBC**.
 - c. Click Data Sources.
- 3. Click New.
- 4. In the "Create a New JDBC Data Source" screen, enter the following values:
 - **a.** A name for the data source.
 - **b.** jdbc/<datasource_name> for the JNDI name.
 - c. A database type/driver pair. Your choices are:
 - MS SQL Server / BEA's MS SQL Server Driver (Type 4)
 - Oracle / BEA's Oracle Driver (Type 4)
 - DB2 / BEA's DB2 Driver (Type 4)

WEBLOGIC SERVE							
Change Center	Welcome, weblogic		Connected to: csDomain	🟠 Home 🛛 Log Out	: Preferences	Help	AskBEA
View changes and restarts	Home > Summary of Services: JDBC > Summary of	JDBC Data Sources				·	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source Back Next Finish Cancel						
Lock & Edit Release Configuration		l to identify your new JDBC data source.					
Domain Structure	What would you like to name you	r new JDBC data source?					
csDomain ⊡Environment	📲 Name:	csDataSource1					
Deployments Services B-Messaging D-JD&C Data Sources Data Sources Data Source Factories Persistent Stores Perdistres Perdistres Perdign JNDI Providers	What JNDI name would you like to) assign to your new JDBC Data Source? jdbc/csDataSource1					
Work Contexts XML Registries XML Entity Caches	What database type would you lik	e to select?					
jCOM Mail Sessions File T3	Database Type:	DB2					
JTA Security Realms	What database driver would you	ike to use to create database connections	?				
B-Diagnostics	Database Driver:	*BEA's DB2 Driver (Type 4) Versions	:7×8× 💌				

- 5. Click Next.
- 6. Click Next in the screen that follows.
- 7. For "Connection Properties," enter the database name, host name for the database server, port, user name, and password. Click Next.

WEBLOGIC SERVI ADMINISTRATION CONSC								
Change Center	Welcome, weblogic		Connected to: csDomain	🏠 Home	Log Out	Preferences	Help	AskBEA
View changes and restarts	Home > Summary of Services: JDBC > Summary of	JDBC Data Sources						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDBC Data Source Back Next Finish Cancel Connection Properties Define Connection Properties.							
Domain Structure	What is the name of database you	would like to connect to?						
csDomain ⊕-Environment	Database Name:	VMWL92						
Deployments EServices	What is the name or IP address o	f the database server?						
B-Messaging B-JDBC Data Sources	Host Name:	10.120.19.219						
Multi Data Sources Data Source Factories	What is the port on the database :	server used to connect to the databasi	9?					
Persistent Stores Path Services Foreign JNDI Providers	Port:	50002						
Work Contexts XML Registries	What database account user name	e do you want to use to create databa	se connections?					
XML Entity Caches jCOM Mail Sessions	Database User Name:	csuser						
-File T3 JTA	What is the database account pas	sword to use to create database conn	ections?					
Security Realms ⊕Interoperability ⊕Diagnostics	Password:							
How do I	Confirm Password:							
 Create JDBC data sources Create LLR-enabled JDBC data sources 	Back Next Finish Cancel							

8. Verify that the data source information is correct, and click **Test Configuration**. This will test your data source. If the test fails, review your data source information, again. When the test succeeds, click **Next**.

to allow others to edit the domain.	Connection test succeeded.	
Lock & Edit	Create a New JDBC Data Source	
Release Configuration	Test Configuration Back Next	Finish Cancel
Domain Structure	Test Database Connection	
csDomain	Test the database availability and	the connection properties you provided.
Deployments E-Services B-Messaging E-JDBC	What is the full package name classpath of any server to which	of JDBC driver class used to create database connections in the connection pool? (Note that this driver class must be in the h it is deployed.)
Data Sources Multi Data Sources	Driver Class Name:	weblogic.jdbc.db2.DB2[
Data Source Factories Persistent Stores Path Services	What is the URL of the database	e to connect to? The format of the URL varies by JDBC driver.
Foreign JNDI Providers Work Contexts	URL:	jdbc:bea:db2://10.120.19
XML Registries XML Entity Caches iCOM	What database account user na	ame do you want to use to create database connections?
Mail Sessions	Database User Name:	csuser
JTA Security Realms ⊕-Interoperability	What is the database account p	assword to use to create database connections?
Diagnostics	Password:	
How do I	Confirm Password:	
Create JDBC data sources Create LLR-enabled JDBC data sources	What are the properties to pass	s to the JDBC driver when creating database connections?
System Status	Descention	user=csuser portNumber=50002 databaseName=UNL92 serverName=10,120,19,219
Health of Running Servers	Properties:	servername=10.120.19.219 batchPerformanceWorkaround=true
Failed (0) Critical (0)		M
Overloaded (0)	What table name or SQL stater	nent would you like to use to test database connections?
Warn (0)		SQL SELECT COUNT(*) FROM SYSIBM.SYSTABLES

9. Check both the admin and managed servers and click Finish.

Administration const								
Change Center	Welcome, weblogic	Connected to: csDomain	🟠 Home	Log Out	Preferences	Help	AskBEA	
View changes and restarts No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Home > Summary of Services: JDBC > Summary of JDBC Data Sources Create a New JDBC Data Source Back Next Finish Cancel Select Targets You can select one or more targets to deploy your new JDBC deploy the data source at a later time.	ata source. If you don't select a target, the d	lata source wi	II be create	d but not deploy	ed.		
Domain Structure csDomain d: E-Invironment -Deployments -Services d: Messaging -J08C -Data Sources -Multi Data Sources -Multi Data Sources -Parsistent Stores -Parsistent Stores -Rath Services -Soft Registries -XML Registries -XML Entity Caches -JCM -Mail Sessions -File T3 -Security Realms d: Interoperability d: Diagnostics	Servers AdminServer ManagedServer Back Next Finish Cancel							

10. Click Activate Changes.

B. Configure the Connection Pool Size

The default values allow a connection pool to contain only up to 15 physical connections. This value needs to be increased.

- **1.** In the left-hand tree:
 - a. Expand Services.
 - b. Expand JDBC.
 - c. Click Data Sources.
- 2. Click on the newly created data source.
- 3. In the Configuration tab click Connection Pool.
- 4. Click Lock & Edit.
- 5. For "Initial Capacity," enter 10 and for "Maximum Capacity," enter 100.
- 6. Click Save.
- 7. Click Accept Changes.
- **8.** Continue on to the next section, "Creating and Configuring a WebLogic Portal Application," on page 56.

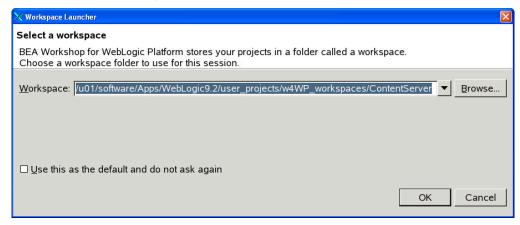
Creating and Configuring a WebLogic Portal Application

This section shows you how to create a portal application using WebLogic Workshop.

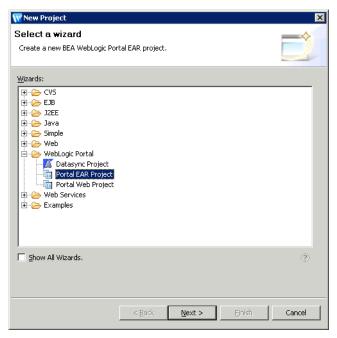
- 1. Stop the admin server.
- 2. Start WebLogic Workshop by executing the following command:

```
<bea_home>/workshop92/workshop4WP/workshop4WP.sh
```

3. (Optional) If you have not yet specified a workspace directory, you will be prompted to do so. Set the directory, then click **OK**.

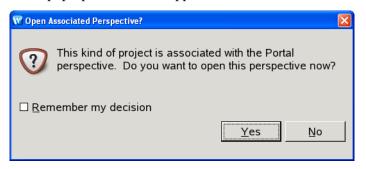


- 4. Create a Portal EAR project. Do the following:
 - a. In the File menu, select New, then Project.
 - **b.** In the "Select a Wizard" screen, expand **WebLogic Portal** and select **Portal EAR Project**. Click **Next**.



c. Enter a name for the new project. Click Finish.

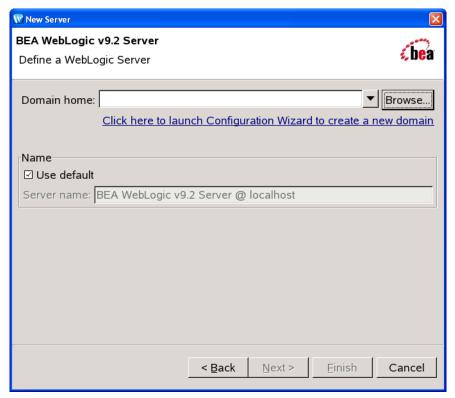
d. In the pop-up window that appears, click Yes.



- 5. Define a new WebLogic server:
 - **a.** Switch to the "Workshop" view. From the **Window** menu, select **Open Perspective**, then **Workshop**.
 - b. In the File menu, select New, then Server.
 - c. In the "Define a New Server" screen, expand **BEA Systems, Inc**. and select **BEA WebLogic v9.2 Server**. Click **Next**.

W New Server	X
Define a New Server	
Choose the type of server to create	
Server's <u>h</u> ost name: localhost	•
Select the <u>s</u> erver type:	
▶ 🗁 Apache	
▼ 🗁 BEA Systems, Inc.	
GBEA WebLogic v9.2 Server	
View By Vender	
<u>V</u> iew By: Vendor Description: BEA WebLogic v9.2 Server	<u> </u>
Description. DEA WebLogic V3.2 Server	
Server <u>r</u> untime: BEA WebLogic v9.2	nes
a Davis Newton Fischer Con	
< <u>Back</u> <u>Next</u> Einish Car	icel

d. In the "Define a WebLogic Server" screen, click Browse.



e. Browse to the <domain_home> directory you specified in step 7 on page 51. Click OK.

W		X
User_projects	domains Portal_Domain	Create Folder
Places	Name	▼ Modified
🖻 Search	BWseeFileStore	Yesterday
root	⊫autodeploy	Yesterday
Desktop	⊜bin	Yesterday
Sile System	reconfig	Yesterday
	Console-ext	Yesterday
	¹ ⊜init-info	Yesterday
	⊫lib	Yesterday
	⊫pending	Yesterday
	⊜security	Yesterday
♣ <u>A</u>dd 	reservers	Yesterday
]]	VI I
		X ⊆ancel JQK

f. In the "Define a WebLogic Server" screen, click Next.

g. In the left-hand list, select the Portal EAR project you created in step 4 on page 56 and click **Add**. Then click **Finish**.

Move projects to the right to cor	figure them on the server	
Available projects:	Agd > < <u>R</u> emove Add All >> << Remove All	Configured projects:

- 6. Create a Portal Web project. Do the following:
 - a. Switch to the "Portal" view. In the Window menu, select Open Perspective, then Portal.
 - **b.** In the **File** menu, select **New**, then **Portal Web Project**.

c. In the "Select a Wizard" screen, expand WebLogic Portal and select Portal Web Project. Click Next.

🔞 New Project					×
Select a wizard Create a new BEA WebLogic Porta	al web projec	t.			
<u>W</u> izards:					
CVS C					
🔲 Show All Wizards.					$\langle \hat{\boldsymbol{\gamma}} \rangle$
1	< <u>B</u> ack	<u>N</u> ext :	>	Einish	Cancel

d. Enter a name for the new project, and select the **Add project to an EAR** check box. Click **Next**.

🕎 New Portal Web Project				×
New Portal Web Project Create a new BEA WebLogic Portal web project.				
Project Name: ContentServerWEB				
Project contents				
Directory: C:\bea\user_projects\workspaces\Content:	5erverWEB			Browse
Target runtime: BEA WebLogic v9.2				▼ N <u>e</u> w
Add project to an EAR				
EAR Project Name: ContentServerEAR				▼ New
	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

e. In the "Select Project Facets" screen, click Next.

	w Por	tal Web Project						×
		roject Facets units of functionality that can	be added to a p	roject.				
Prese	ets:	WebLogic Portal Web Project F	acets			•	Save	Delete
Pro	ject Fa	acet	Version					
	7 🐻	Dynamic Web Module	2.4					
	7 🗎	Java	5.0					
	-	Java Annotation Process	i 5.0					
	7 🗎	WebLogic Web App Exten	e 9.2.0					
	-	Beehive Controls	1.0					
	7 🗎	Beehive NetUI	1.0					
		JSF	1.1					
	7 🗎	JSTL	1.1					
	I 🗎	Struts	1.2					
÷		Web Services						
		WebDoclet (XDoclet)	1.2.3					
	J 🗋							
	J 🗋		n 9.2.0					_
	I 🗋							
÷		WebLogic Portal (Optional)						_
							<< Sho	w Runtimes
				< Pack		E'-	ich I	Cancel
				< <u>B</u> ack	Next >	Ein	ish _	Cancel

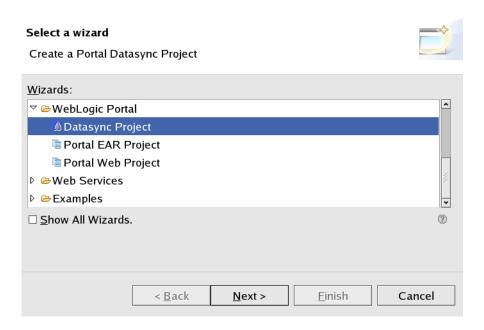
- f. In the "Web Module" screen, do the following:
 - 1) Enter a supported context root (cs or servlet).
 - 2) Enter a content directory name. (This directory will be referred to later in this guide as <content_dir>.)
 - 3) In the Java Source Directory field, enter src.
 - 4) Click Finish.

🕅 New Portal Web Project	E
Web Module	L
Configure web module settings.	
Context Root:	
cs	
Content Directory:	
cs	
Java Source Directory:	
	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

BEA WebLogic Configuration Wizar	ď	
Creating Domain		(bea)
sbear	Progress:	
	Extracting Domain Contents Creating Domain Security Information Saving the Domain Information Storing Domain Information String Substituting Domain Files Performing OS Specific Tasks Performing Post Domain Creation Tasks Domain Created Successfully!	
	Domain Location: C:\bea\user_projects\domains\portalDomain	
		Start Admin Server

g. Wait until the Portal Web project is created and configured, then click Done.

- 7. Create a Datasync project:
 - a. In the File menu, select New, then Datasync Project.
 - **b.** In the "Select a Wizard" screen, expand **WebLogic Portal** and select **Datasync Project**, then click **Next**.



c. In the Project name field, enter a name for the new project and click Next.

New Datasync Project
Create a new BEA WebLogic Portal Datasync project
Project name: CSDATA Project contents Use default Directory: /u01/software/Apps/Weblogic921/user_projects/workspa Browse Datasync Source Folder
O Use project as <u>s</u> ource folder
◉ <u>U</u> se a local directory as source folder
N <u>a</u> me: src
\Box Link to folder in the file system
F <u>o</u> lder: Bro <u>w</u> se
☑ Create defaul <u>t</u> project directories ☑ Create default project fil <u>e</u> s
< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

d. Select the Portal EAR project created in step 4 on page 56 and click Finish.

EAR Projects

Select the EAR projects which will utilize this datasync project.

CSEAR				
	< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

8. Return to WebLogic Workshop and check the status of the Portal EAR project. If errors are displayed, right-click the Portal EAR project in the **Package Explorer** pane and select **Refresh**.

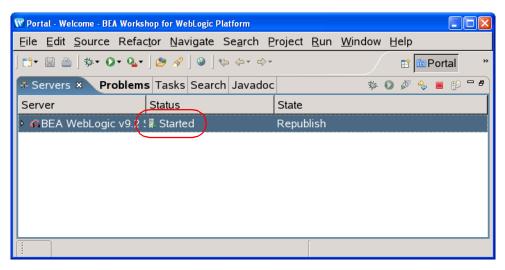
- 9. Disable validation of JSP syntax, XML, and XML schema. Do the following:
 - **a.** In the **Package Explorer** pane on the left, right-click the Portal Web project and select **Properties**.
 - **b.** In the left pane, click **Validation**.
 - c. Deselect the JSP Syntax Validator, XML Validator, and XML Schema Validator check boxes.
 - d. Click OK.

Properties for ContentServerWEB					
e filter text 💌	Validation 🗇 🗘				
 e filter text Info Associated File: BeanInfo Path Builders File Templates J2EE J2EE Module Di Java Build Path Java Code Style Java Code Style Java Compiler Javadoc Locatic JSP Design Pali Profile Complian Project Facets Project Referen Server Task Tags Validation WebLogic Porta XDoclet XMLBeans 	Validation ↓ • • • Override validation preferences Image: Second Se				
· ·	Restore Defaults Apply				
	OK Cancel				

- 10. Synchronize the newly defined WebLogic server:
 - **a.** Start the admin server using the following command (do not use Workshop to start the server):

<domain_home>/startWebLogic.sh

b. Once the admin server starts, the status of the WebLogic server you created changes to "Started":



c. Right-click the WebLogic server and select Publish.

When publishing completes successfully, the state of the WebLogic server changes to "Synchronized."

- **11.** Your next step is one of the following:
 - If you wish to integrate with the Apache or IIS web server, follow instructions in Chapter 6, "Installing and Configuring the Web Server."
 - To install Content Server, follow instructions in Chapter 7, "Installing and Configuring Content Server."

Deploying Portal Applications

This section shows you how to deploy portal applications using WebLogic Workshop. You will perform the steps below half-way through the Content Server installation.

Note

Before deploying the CS Portal application, you must do the following:

- 1. Start WebLogic Workshop by executing the following command:

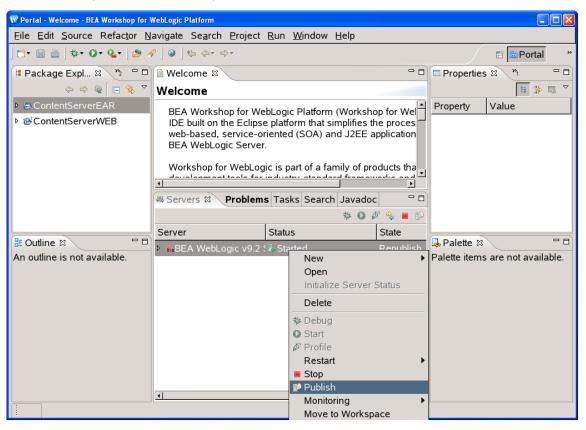
<bea home>/workshop92/workshop4WP/workshop4WP.sh

2. Start the admin server using the following command (do not start it using Workshop):

```
<domain_home>/startWebLogic.sh
```

When the admin server starts successfully, the status of the WebLogic server changes to "Started."

3. Build (or rebuild) the portal application. In the **Package Explorer** pane on the left, right-click the portal application and select **Refresh**. When the application completes building, the status of the WebLogic server changes to "Republish." This means that the most recent version of the portal application has not yet been deployed to the server.



4. Right-click the WebLogic server and select **Publish**.

When the state of the WebLogic server changes to "Synchronized," the portal application has been successfully deployed.

Deploying Portal Applications

Part 3 Web Server

This part shows you how to install and configure the Apache and IIS web servers. Both are optional components in a Content Server installation.

This part contains the following chapter:

• Chapter 6, "Installing and Configuring the Web Server"

Chapter 6 Installing and Configuring the Web Server

This chapter provides guidelines for integrating WebLogic Server with your choice of either the Apache web server or the IIS web server. Note that integrating with a web server is optional.

This chapter contains the following sections:

- Installing and Configuring Apache 2.0.x Plug-in
- Installing and Configuring IIS Plug-in for IIS 6.0 and Higher

Installing and Configuring Apache 2.0.x Plug-in

This section explains how to integrate Apache 2.0.x with WebLogic Server using the $mod_wl_{20.so}$ plug-in.

To install Apache

- **1.** Install Apache 2.0.*x* HTTP server.
- 2. Make sure that mod_so.c is enabled. Run <apache_home>/bin/apachectl -1. If mod_so.c is not in the list that is printed, you must rebuild your Apache with the -enable-module=so option.
- 3. Copy the mod_wl_20.so file from <bea_home>/weblogic92/server/plugin/ <os_type>/<os_version> to <apache_home>/modules. On Linux, it is located in the <bea_home>/weblogic92/server/plugin/linux/i686 directory.
- 4. Edit the http.conf file which is located in the <apache_home>/conf directory.
 - **a.** Add the following to the LoadModules section:

LoadModule weblogic_module modules/mod_wl_20.so

- **b.** Before "Section 3" of the httpd.conf file, add the following lines:
 - For a non-clustered environment:

```
<IfModule mod_weblogic.c>
  WebLogicHost <listening_address>
  WebLogicPort <listen_port>
</IfModule>
```

- For a clustered environment:

c. After the last Location tag, add the following:

```
<Location /servlet>
SetHandler weblogic-handler
</Location>
```

5. Verify the syntax of the <Apache_home>/conf/httpd.conf file with the following command:

```
<Apache_home>/bin/apachectl -t
```

6. You are now ready to install Content Server. For instructions, go to Chapter 7, "Installing and Configuring Content Server."

Installing and Configuring IIS Plug-in for IIS 6.0 and Higher

You configure IIS for WebLogic by mapping two file extensions to the WebLogic application. Mapping the file extensions takes two steps:

- **A.** Use the IIS console to map the .jsp and .wlforward extensions to the appropriate .dll provided by WebLogic.
- **B.** Create a configuration file called *iisproxy.ini*, which specifies how to contact WebLogic. Creating the configuration file is a manual step that you complete outside the IIS console.

A. Create the Application Mappings and the ISAPI Filter

Complete the following steps:

- 1. Right-click the **My Computer** icon on your desktop and select **Manage** from the pop-up menu.
- 2. In the "Computer Management" window, select Services and Applications > Internet Information Services.
- 3. Right-click **Default Web Site** and select **Properties**.
- 4. In the **Default Web Site Properties** dialog box, select the **Home Directory** tab.
- **5.** Click in the **Execute Permissions** field and select **Scripts and Executables** from the drop-down list.
- 6. Click Configuration.
- 7. In the Application Configuration dialog box, select the App Mappings tab.
- 8. In the App Mappings dialog box, verify that the Cache ISAPI applications option is selected.
- 9. Click Add.
- **10.** In the **Add/Edit Application Extension Mapping** form, create a mapping for the .jsp file extension. Enter the following values:

Field	Set to This Value
Executable	Click Browse. Navigate to and select:
	<pre><bea_home>\weblogic92\server\native\win\ <os_version>iisproxy.dll</os_version></bea_home></pre>
Extension	jsp (not .jsp — do not include the period)
Verbs	All verbs (the default)
Script engine	Clear this option.
Check that file exists	Clear this option.

- 11. Click OK.
- 12. Back in the App Mappings dialog box, click Add again.

13. This time in the **Add/Edit Application Extension Mapping** dialog box, create a mapping for the .wlforward file extension. Enter the following values:

Item	Set It to This Value	
Executable	Click Browse.	
	Navigate to and select:	
	<pre><bea_home>\weblogic92\server\native\win\ <os_version>iisproxy.dll</os_version></bea_home></pre>	
	Note : Be sure to select iisproxy.dll; do not select iisforward.dll	
Extension	wlforward (not .wlforward — do not include the period)	
Verbs	All verbs (the default)	
Script engine	Clear this option.	
Check that file exists	Clear this option.	

- 14. Click OK.
- 15. Back in the App Mappings dialog box, click Apply; then click OK.

In the **Application Configuration** window you see two new **Application Mapping** entries named .jsp and .wlforward.

- **16.** Click **OK**.
- 17. In the **Default Web Site Properties** dialog box, select the **ISAPI Filters** tab.
- **18.** Click **Add...**
- **19.** In the **Filter Properties** form, create a filter that uses the WebLogic iisforward.dll file. Enter the following values:

Item	Set It to This Value	
Filter Name	You can specify an arbitrary name, but we recommend:	
	iisforwardfilter	
Executable	Click Browse. Navigate to and select:	
	<pre><bea_home>\weblogic92\server\native\win\ <os_version>iisproxy.dll</os_version></bea_home></pre>	

20. Click OK.

- 21. In the Default Web Site Properties dialog box, click Apply; then click OK.
- **22.** The installed version of IIS with its initial settings does not allow the *iisproxy.dll*. Use the IIS Manager console to enable the Plug-In:
 - **a.** Open the IIS Manager console.
 - **b.** Select Web Service Extensions.
 - c. Set "All Unknown ISAPI Extensions" to Allowed.

B. Create the iisproxy.ini Configuration File

- 1. Open a text editor and create a new file.
- **2.** In this file, enter the following statements. Be aware that the case of each property must exactly match the case specified here:

```
WebLogicHost=<listening_address>
WebLogicPort=<managed_listen_port>
ConnectTimeoutSecs=20
ConnectRetrySecs=5
WlForwardPath=/servlet
```

Note

In the WlForwardPath property, /servlet corresponds to <WebRoot> in the installer screens for WebLogic (/servlet is normally the application server context).

- 3. Save and name the file: iisproxy.ini
- **4.** Place the file in the following directory:

<bea_home>\weblogic92\server\bin

5. Restart all the IIS services. If you need instructions, follow the steps below.

Note

You can start the various IIS services in various ways. To be sure that all the necessary services are running, start IIS from the **Services** node.

- a. Right-click the My Computer icon.
- **b.** Select **Manage** from the pop-up menu.
- c. In the **Computer Management** dialog box, expand the **Services and Applications** node in the tree.
- d. Select Services.
- e. In the list of services on the right, right click **IIS Admin Service**.
- f. Select **Start** from the pop-up menu.

To start (or stop) the default web site only

- a. Right-click the MyComputer icon.
- **b.** Select **Manage** from the pop-up menu.
- **c.** In the **Computer Management** window, expand the **Services and Applications**. node in the tree.
- d. Expand the Internet Information Services node.
- e. Right-click Default Web Site.
- f. Select Start (or Stop, as appropriate), from the pop-up menu.
- **6.** You are now ready to install Content Server. For instructions, got to Chapter 7, "Installing and Configuring Content Server."

FatWire Installing Content Server 7.0.1 with WebLogic Server

Part 4 Content Server

This part shows you how to install Content Server. It contains the following chapter:

• Chapter 7, "Installing and Configuring Content Server"

Chapter 7 Installing and Configuring Content Server

This chapter provides guidelines for installing Content Server on WebLogic Server, connecting to the supported database of your choice.

This chapter contains the following sections:

- Installing Content Server
- Post-Installation Steps

Installing Content Server

After completing Steps I – IV.1 in the "Installation Quick Reference," on page 8, you install Content Server using the provided installer. The installation process consists of two stages.

In the first stage, the installer gathers necessary configuration information, installs the file structure, and deploys the CS application (unless you choose to deploy the application manually). At the end of the first stage, the installer displays an "Installation Actions" window describing the steps you must perform before proceeding to the second stage of the installation. If you chose to deploy the CS application manually, the first of these steps will be to deploy the CS application by following the instructions in "Deploying Web Applications," on page 44.

If you are using an Oracle database and require text attributes greater than 2000 characters, you must set the cc.bigtext property to CLOB after the CS application is deployed. (For instructions, see step 5 in the next section.)

If the first stage fails, the installer allows you to go back and modify your configuration options (except the database type), and retry the installation.

Note

If you need to change the type of database you have specified during the installation, you must delete the installed CS file structure and restart the installation.

In the second stage, the installer populates the database with the tables and data required for Content Server to function. If the second stage fails, the file structure and database tables must be deleted and the installation restarted from the beginning.

Running the Installer

To install Content Server

- 1. Make sure you have completed Steps I IV.1 in the "Installation Quick Reference," on page 8.
- 2. Extract the Content Server installer archive into a temporary directory.
- **3.** Change to the temporary directory containing the installer files.
- 4. Execute the installer script:
 - On Windows: csInstall.bat
 - On Unix: csInstall.sh

The installer provides online help at each screen. Read the online help for detailed explanations of the options that are presented in each screen. If you encounter problems during the installation process, consult the online help for possible causes and solutions.

- 5. If you are using an Oracle database and require text attributes greater than 2000 characters, you must set the cc.bigtext property to CLOB. When the installer displays the "Installation Actions" pop-up window, complete step 1 displayed in the window, then do the following:
 - a. Open the Property Editor by clicking the Property Editor button.

- **b.** In the Property Editor, open the futuretense.ini file.
- c. Click the **Database** tab.
- d. Locate the cc.bigtext property and set its value to CLOB.
- e. Save your changes and close the Property Editor.
- f. Continue on to step 3 displayed in the "Installation Actions" window.
- 6. When the installation completes successfully, perform the post-installation steps in this chapter as required for your installation. Post-installation steps begin on page 81.

Post-Installation Steps

When the installation process completes successfully, perform the following steps:

- A. Setting File Permissions (Unix Only)
- B. Verifying the Installation
- C. Switching WebLogic to Production Mode (Delivery Systems Only)
- D. Setting Up the Portal (Portal Installations Only)
- E. Integrating with LDAP (Required for Portal Installations)
- F. Setting Up a Content Server Cluster (Optional)
- G. Setting Up Content Server for Its Business Purpose

A. Setting File Permissions (Unix Only)

If you installed Content Server on Unix, you must grant the "executable" permission to all files in the <cs_install_dir>/bin directory. To do so, perform the following steps:

- 1. Change to the <cs_install_dir>/bin directory.
- 2. Run the following command: chmod +x *
- 3. Restart the corresponding WebLogic server.

B. Verifying the Installation

In this section, you will log in to your installation in order to verify that it functions.

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.

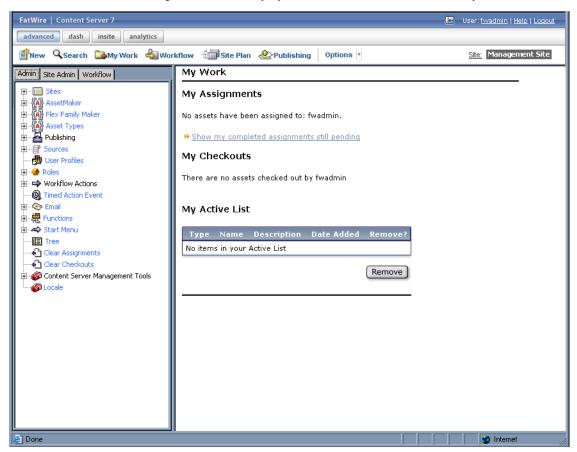
FatWir User Nan Password	and the second sec	_
	Login: advanced Forgot your password? Don't have an account?	Installed Products: Content Server 7.0.1 CS-Engage 7.0.1 Commerce Connector 7.0.1

- **2.** Enter the following credentials:
 - User name: fwadmin
 - Password: xceladmin
- 3. Click Login.

FatWire

Depending on whether you installed sample sites, one of the following happens:

- If you did not install any sample sites, you are logged in to the built in Content Server management site. Only system administration functionality is available.



- If you installed one sample site, you are logged in to that site.

FatWire Content Server 7		E	User: <u>fwadmin Help</u> <u>Logout</u>
advanced dash insite analytics			
🖆 New 🔍 Search 🕞 My Work 🔩 Wo	rkflow 🖞 🗐 Site Plan 🛛 🌺 Publishing Options 🕑		<u>Site:</u> FirstSitell
Artwork Documents Visitors Site Design Products Content Active List Query Design Marketing Site Plan Admin Site Admin Workflow Image: PrintStiteII Site Image: PrintStiteII Site Image: Placed Pages Image: Placed Pages	My Work My Assignments No assets have been assigned to: fwadmin. * Show my completed assignments still pending My Checkouts There are no assets checked out by fwadmin My Active List Type Name Description Date Added Remove? No items in your Active List Remove		
🙆 Done			🥥 Internet 🖉

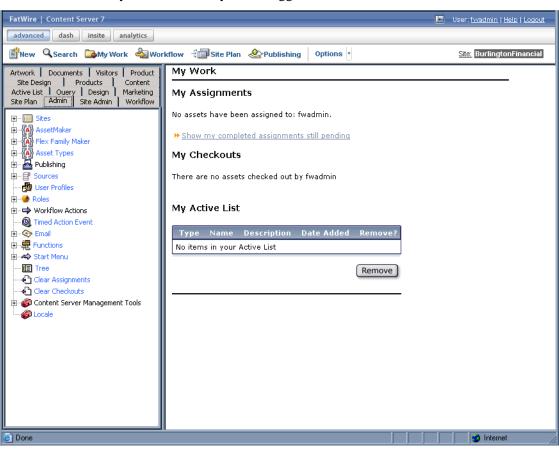
- If you installed more than one sample site, Content Server displays the "Select Site" screen. In such case, select the sample site you wish to log in to.

You have logged in as fwadmin

Select a site that you want to work on:

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

[Log in again]



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

Logging in to the Dashboard Interface

1. Point your browser to the following URL:

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

Content Server displays the Dashboard interface login page.

FatWire	Content Server 7
Select Site:	Select a Site 🔽
User Name:	
Password:	
	<u>Remember my user name</u> <u>Login</u> <u>Reset</u>
	<u>Forgot your password?</u> <u>How to bookmark this page?</u> <u>Don't have an account?</u>

- **2.** Enter the following credentials:
 - User name: fwadmin
 - Password: xceladmin

3. Click Login.

Depending on whether you installed sample sites, one of the following happens:

- If you did not install any sample sites, Content Server displays a message notifying you of that fact. You will not be able to log in to the Dashboard interface until at least one site exists on your system.
- If you installed one sample site, you are logged in to that site.

FatWire Content Server 7				User: fwadmin <u>Help</u> <u>Loqout</u>
advanced dash insite analytics		Search Criteria	Er Er	iter Search Text Here search
Currently Logged In To: FirstSite Mark II	Click on ar	dash		How do I Create content? Edit content? Preview content? Approve content?
Image: System Image: System Image: System	C New Content Parent	New Content Par	O rent	Finish an assignment? Check out content? Search content? Access advanced features? Add content to a tag? Rename a tag? Create a tag? Run a tag? Remove content from a tag? Delete a tag?
- 🗎 My Checkouts	Quick Info			
🖵 🗎 My Assignments	My Roles		View 4	
	Assignments Checkouts		4	П
	Last Item Edited	FSIIHome / May 21,2007 13:5		
	Tasks I have Assigned	· ,,	0	👂 Learn about FatWire
	Last Time Logged In	May 21,2007 15:0	2 PM	Support Training ContentServer Manuals Products News User Groups DeveloperNet Analytics
i Site Plan				
Asset Tree				
New 🖉 Edit				
e 1				🔹 🚺 💓 Internet

If you installed more than one sample site, Content Server displays the "Select Site" screen. In such case, select the sample 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
0	BurlingtonFinancial	Burlington Financial	WorkflowAdmin, SiteAdmin, GeneralAdmin
0	GE Lighting	GE Lighting	Designer, WorkflowAdmin, SiteAdmin, GeneralAdmin
0	HelloAssetWorld	Hello Asset World	WorkflowAdmin, GeneralAdmin
0	FirstSiteII	FirstSite Mark II	GeneralAdmin

Select

-

[<u>Log in again</u>]



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

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

C. Switching WebLogic to Production Mode (Delivery Systems Only)

If you created a delivery system, switch WebLogic to production mode:

- 1. Log in to the WebLogic Administration Console.
- 2. Click the domain name in the tree.
- **3.** Click the **General** tab.
- 4. Click Lock & Edit.
- 5. Select the check box next to **Production Mode**.
- 6. Click Save.
- 7. Click Accept Changes.
- **8.** Restart all servers.

Note

If you need to turn off production mode, set the environment for weblogic.deployer as shown in the previous section "Set Up the Environment for weblogic.Deployer," on page 44 (assuming you open a new window), then run the following command:

```
java weblogic.Admin -url :<admin_listen_port>/" href="http:/
    /:<admin_listen_port>"http://
    <listening_address>:<admin_listen_port>
    -username weblogic -password demo4132 SET -type Domain
    -property ProductionModeEnabled false
```

9. After restarting all servers you may see the following error:

<BEA-090782><Server is Running in Production Mode and Native Library(terminalio) to read the password securely from commandline is not found.>

If you receive this error, do the following:

- a. Modify your WebLogic start scripts. The scripts are:
- <domain_home>/bin/startWebLogic.sh
- <domain_name>/bin/startManagedWebLogic.sh

(If using Windows, the files will have .bat extensions instead of .sh.)

Add the following (as a single line) to each script:

```
JAVA_OPTIONS="${JAVA_OPTIONS}
-Dweblogic.manangement.allowPasswordEcho=true"
```

b. Restart all servers.

D. Setting Up the Portal (Portal Installations Only)

For portal installations, you must create and populate a WebLogic portal using WebLogic Workshop.

Creating the Portal

1. Start WebLogic Workshop by executing the following command:

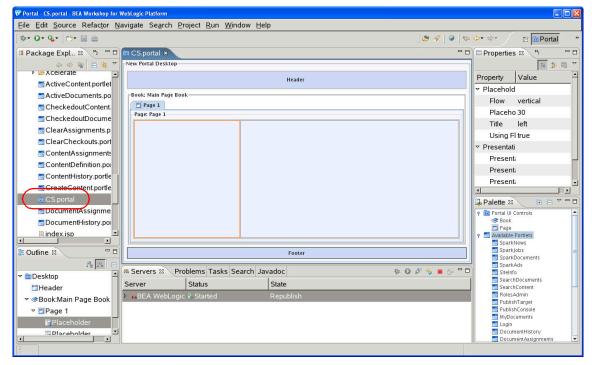
<bea_home>/workshop92/workshop4WP/workshop4WP.sh

- 2. In the File menu, select New, then Portal.
- 3. In the "New Portal" screen, expand the Portal Web project you created for your portal and select the content directory, <content_dir>, which you specified in step f on page 61 when you created the project.
- 4. In the **File name:** field, enter a file name for the project. The file name must either have a .portal extension, or no extension at all.
- **5.** Click **Finish** and proceed to the next section to populate the portal with pages and Content Server portlets.

Populating the Portal

- 1. Copy the login portlet files to the web application. Do the following:
 - On Unix, decompress the file <cs_install_dir>/bin/loginportlet.zip to the <content_dir> directory of the WebLogic Workshop Portal project you created in the previous section.
 - **On Windows**, do the following:
 - 1) Decompress the file <cs_install_dir>\bin\loginportlet.zip into a temporary directory and change to that directory.
 - 2) Copy the Login.portlet file to the <content_dir> directory of the WebLogic Workshop Portal project you created in the previous section.
 - 3) (Optional) If you did not install Spark sample portlets, do the following:
 - a. Create the directory, <content_dir>\SparkSample
 - **b.** Copy the file, SparkSample\login.jsp from the temporary directory to <content_dir>\SparkSample
 - **c.** Copy the file, WEB-INF\lib\bealoginportlet.jar from the temporary directory to <content_dir>\WEB-INF\lib
- **2.** Publish the changes to the affected WebLogic server.

3. In the **Package Explorer** pane at the left, expand the Portal Web project you created in "Creating and Configuring a WebLogic Portal Application," on page 56, then expand the content directory, <content_dir>, which you specified in step f on page 61.



- 4. Add pages to the portal. (You will name them in the next step.) Do the following:
 - **a.** In the **Outline** pane in the lower left, expand **Desktop**.
 - **b.** Right-click **Book:Main Page Book**. select **Insert**, and click **New Page**. Repeat this step for each page listed in the following table:

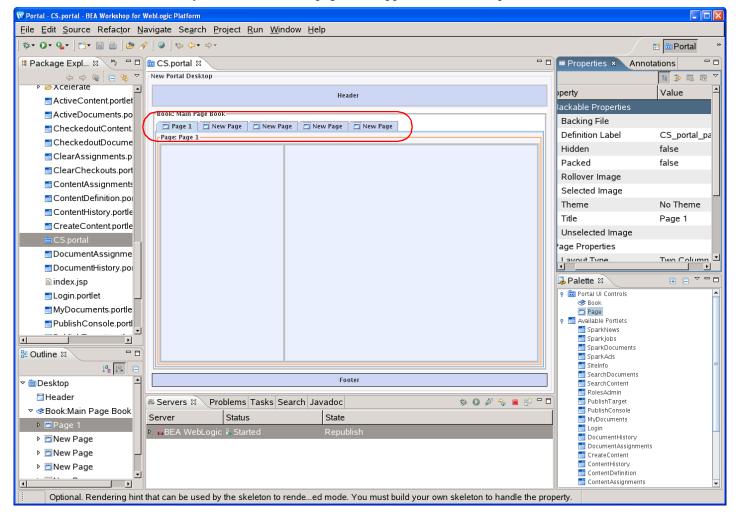
Table 2: Portlets and their functions

Name	Purpose
Portal Login	Allows users to log in to the portal. Used by all systems (development, content management, and delivery).
CS Content	Displays portlets used to manage structured content. Create this page on development and content management systems, but not on delivery systems.
CS Documents	Displays portlets used to manage document-based content. Create this page on development and content management systems, but not on delivery systems.
Spark Display (optional)	Create this page if you installed the Spark sample site and want to display its content in the portal.

Table 2: Portlets and their functions (continued)

Name	Purpose
Admin (optional)	Create this page if you installed the Spark sample site and wish to use its administrative portlets to manage the users working in the Spark sample site on your development and content management systems.
	You can not use the Spark administrative portlets to manage users working in sites other than the Spark sample site; in such cases, do not create this page.

When you are finished, the pages will appear in the center pane, as follows:

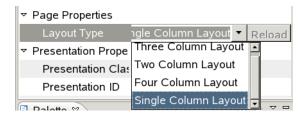


- 5. Name the pages you created in step 4. Do the following for each page:
 - **a.** Select the tab belonging to the page you want to name.
 - b. Enter a name for the page in the Title field in the Properties pane at the right.
 - **c.** If the **Properties** pane does not display the properties of the page you selected, double-click the page in the **Outline** pane in the lower left.

🐨 Portal - CS.portal - BEA Workshop for	WebLogic Platform	
<u>File Edit Source Refactor N</u>	avigate Se <u>a</u> rch <u>P</u> roject <u>R</u> un <u>W</u> indow <u>H</u> elp	
🅸 • 💽 • 💁 🔁 • 📄 🖄 /	8] ⊗] ♥ ◊+ ◊+	🖺 🖻 Portal 🛛 *
📙 Package Expl 🛛 🔭 🗖	📾 CS.portal 🗴 🗧 🗖	■ Properties 🛛 Annotations 🛛 🗖
4 4 👰 🖻 🕏 🏹	New Portal Desktop	14 🐉 🛤 🗔 🗸
▶ 🗁 Spark Sample	Header	Property Value
▶ 🎥 WEB-INF		✓ Backable Propertie:
▷ Scelerate	Book: Main Page Book	Backing File
ActiveContent.portlet	Page: Admin	Definition Label CS_portal_page_
📑 ActiveDocuments.po		Hidden false
📑 CheckedoutContent.		Packed false
📑 CheckedoutDocume		Rollover Image
🖺 ClearAssignments.p		Selected Image
📑 ClearCheckouts.port		Theme No Theme
ContentAssignments		Title Admin
📑 ContentDefinition.poi		Unselected Imag
😁 ContentHistory.portle		✓ Page Properties
🗂 CreateContent.portle		Lavout Type Two Column Lav
🖮 CS.portal		
🗂 DocumentAssignme		Palette 🛛 🗉 🗖 🗖
📑 DocumentHistory.poi		P im Portal UI Controls
🗟 index.jsp		🛅 Page
📑 Login.portlet		♀
🗄 Outline 🛛 🗖 🗖		SparkAds
JªZ IQ 🖻		SiteInfo ≡ SearchDocuments
	Footer	📑 SearchContent
	🖟 Servers 🛙 Problems Tasks Search Javadoc 🛛 🕸 🖉 🍃 🗖 🗖	📑 RolesAdmin 📑 PublishTarget
Placeholder		PublishConsole
Placeholder	Server Status State	📑 MyDocuments 📑 Login
▼ 🖾 Spark Display	▶ GBEA WebLogic	DocumentHistory
Placeholder		DocumentAssignments CreateContent
Placeholder		ContentHistory
Admin 🗸		ContentDefinition
	M	

When you are finished, the names you assigned to the pages will be displayed in the corresponding tabs in the center pane, as follows:

- **6.** (Optional) If you want to change the layout of a page (the default is a two-column layout), do the following:
 - **a.** In the **Outline** pane in the lower left, double-click the page whose layout you want to change.
 - **b.** In the **Properties** pane at the top right, expand **Page Properties**.
 - c. In the Layout Type field, select the desired layout.



d. Select another property within the **Properties** pane to apply the new layout to the page.

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- **7.** Populate each page with the appropriate CS portlets, according to the table below. Do the following:
 - **a.** Select the tab corresponding to the page you want to populate.
 - **b.** Drag the portlets from the **Palette** pane in the lower right to the corresponding page, as described in the following table (the portlets are displayed under **Available Portlets**):

Page	Portlets to Add to Page
Portal Login	Login
CS Content	SiteInfo, ActiveContent, CheckedoutContent, ContentAssignments, SearchContent, CreateContent, ContentHistory
CS Documents	SiteInfo, ActiveDocuments, CheckedoutDocuments, DocumentAssignments, SearchDocuments, DocumentHistory, MyDocuments
Spark Display (if created)	SiteInfo, SparkAds, SparkDocuments, SparkJobs, SparkNews
Admin (if created)	RolesAdmin, ClearCheckouts, ContentDefinition, ClearAssignments, PublishTarget

For example, when you are finished populating the "CS Content" page, it will look similar to the following:

≣ *CS.portal ¤					
New Portal Desktop					
Header					
Book: Main Page Book					
🗇 Login Page 🖉 CS Content 👘 CS Documents 🎽 Spark Display 🎽 Admin					
Page: CS Content					
SiteInfo	ContentAssignments				
		ContentHistory			
ActiveContent	SearchContent				
		PublishConsole			
CheckedoutContent	CreateContent				
Footer					



- 8. Save your changes. In the File menu, click Save.
- 9. Publish the changes to the WebLogic server. Do the following:
 - **a.** Rebuild the portal application to include your changes. In the **Package Explorer** pane in the upper left, navigate to the Portal Web project you created for your portal, right-click on the project, and select **Refresh**.

When the application is successfully rebuilt, the status of the WebLogic server changes to "Republish." This means that the most recent version of the portal application has not yet been deployed to the server.

b. Redeploy the portal application. Right-click the WebLogic server and select **Publish**.

When the state of the WebLogic server changes to "Synchronized," the portal application has been successfully redeployed to include your changes.

E. Integrating with LDAP (Required for Portal Installations)

LDAP integration is mandatory for portal installations, and optional for web installations. If you need to perform LDAP integration, you must do the following:

- 1. Set up a supported LDAP server of your choice. For instructions, see *Configuring Third-Party Software*.
- 2. Run the LDAP integration program included on the Content Server CD.

For more information, see the LDAP Integration Guide.

F. Setting Up a Content Server Cluster (Optional)

If you plan to install Content Server in a vertical cluster, complete the following steps:

- 1. Adding a Managed Server
- 2. Creating Additional Cluster Members
- 3. Creating and Configuring a Cluster

Before starting the steps in this section, make sure of the following:

- You have a full Content Server installation on a managed server.
- You are installing a vertical cluster (WebLogic managed servers are installed on the same machine).

1. Adding a Managed Server

If you do not have a managed server in addition to the managed server that was used in the previous section, you must create one for each of the remaining cluster members. Otherwise, skip to the next step, "2. Creating Additional Cluster Members."

To add a managed server

- 1. Log into the "WebLogic Administration Console."
- 2. Expand Environment.
- 3. Click Servers.
- 4. Click Lock & Edit.
- 5. Click New.

- 6. Enter a name for the new managed server. Enter the listening address, which is the same as the admin server. Enter the listening port, a port different from the admin server and other managed servers. Select No, this is a stand-alone server, and click Next.
- 7. Click Finish.
- 8. Click Accept Changes.
- 9. Click Servers.
- **10.** Click on the managed server you just created.
- **11.** On the **Configuration** tab, click General.
- 12. Click Lock & Edit.
- **13.** From the **Machine** drop-down menu, select the node manager that was created during the domain configuration.
- 14. Click Save.
- 15. Click Activate Changes.
- **16.** Start the new managed server.
- 17. Repeat this procedure for each additional managed server.

2. Creating Additional Cluster Members

- 1. After adding the managed server(s), create the cluster members. Repeat the steps in "Installing Content Server," on page 80. When this has been done, you should have at least a primary cluster member and a secondary cluster member.
- **2.** The managed servers now need to be placed in a cluster. For instructions, continue with the next section.

3. Creating and Configuring a Cluster

If you did not create and configure a cluster when creating the domain, you will need to do so now. In this section, you will place the managed servers (hosting Content Server) into the cluster.

To create and configure a cluster

- **1.** Create a cluster:
 - **a.** Log in to the administration console.
 - **b.** Expand **Environment**.
 - c. Click Clusters.
 - d. Click Lock & Edit.
 - e. Click New.
 - f. Enter a name for the cluster. Leave the default multicast address. Enter the Admin Port for **Multicast port**. Click **OK**.
 - g. Click Activate Changes.
- **2.** Add servers to the cluster:
 - **a.** While logged in to the administration console, click **Servers**.
 - **b.** For each managed server that will be a cluster member:

- 1) Click on the server name.
- 2) Click Lock & Edit.
- 3) On the **Configuration** tab, select the cluster created previously in this section for the **Cluster** drop-down menu.
- 4) Click Save.
- 5) Click Activate Changes.
- 3. Configure file locking and cluster parameters:
 - **a.** Stop the applications running on the cluster members.
 - **b.** Create a sync directory under <shared_dir>.
 - **c.** For each application on a cluster member:

Edit the <cs_install_dir>/futuretense.ini file. Set ft.sync to a value that is the same for all cluster members. Set ft.usedisksync to the path of the created sync directory.

- 4. Copy all the files from <cs_install_dir>/bin to <bea_home>/weblogic92/ server/native/<os_type>/<os_version> (the files include the Keyview files).
- 5. For example, on Linux, copy the files to: <bea_home>/weblogic92/server/ native/linux/i686/

```
Note
```

On Linux: Add the destination path to the PATH statement. To do so, edit the two scripts <domain_home>/bin/startWebLogic.sh and <bea_home>/ weblogic92/server/bin/startNodeManager.sh by adding the following lines after the first comment block:

```
LD_LIBRARY_PATH="$LD_LIBRARY_PATH:/u01/software/Apps/
WebLogic9.2/weblogic92/server/native/linux/i686"
PATH="$LD_LIBRARY_PATH:$PATH"
export LD_LIBRARY_PATH
export PATH
```

6. Start the applications on the cluster members. For login information, see step on page 81.

G. Setting Up Content Server for Its Business Purpose

Once you have completed your Content Server installation, you are ready to configure it for business use. For instructions, see the *Content Server Administrator's Guide* and the *Content Server Developer's Guide*. The guides explain how to create and enable a content management environment including the data model, content management sites, site users, publishing functions, and client interfaces.

Post-Installation Steps