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Installing Content Server with WebLogic Application Server

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Chapter 1 Introduction

This document provides guidelines for installing Content Server on WebLogic Application 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 Application 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 7).

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.

Table 1: Paths and Directories

Name used by guide	Description
<bea_home>/ weblogic92</bea_home>	WebLogic Application 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>
<deploy_dir></deploy_dir>	Path to the directory to which Content Server is deployed; the path includes the name of the deployment directory.

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 Application Server. For instructions, see Chapter 3, "Installing WebLogic Application Server."

Note

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

- 2. Create and configure a WebLogic server domain, as shown in "Creating and Configuring a WebLogic Server Domain," on page 26. This step requires you to:
 - a. Create an admin server for the domain.
 - **b.** Create a managed server for a production environment and, if you choose to set up vertical clustering, a managed server for each cluster member.
 - **c.** Name the domain.
- **3.** Set up the environment for deployment and database communications. This step requires you to:
 - **a.** Set environment variables to ensure that all servers are using the correct JDK. For instructions, see "Setting Environment Variables," on page 39.
 - **b.** Turn off host name verification for non-production systems. For instructions, see "Disabling Host Name Verification," on page 39.
 - c. 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 41.
 - **d.** Set up the data source. For instructions, see "Creating and Configuring a Data Source," on page 41.

III. (Optional) Set Up the Web Server

If you plan to integrate WebLogic Application Server with either the Apache or IIS web server, follow instructions in Chapter 5, "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 6, "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 "Deploying Web Applications," on page 46.

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 60.

- **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 61.
 - **b.** Verify the Content Server installation by logging in as the administrator. For instructions, see "Verifying the Installation," on page 61.
 - **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 67.
 - **d.** If you need to perform LDAP integration, follow the steps in "Integrating with LDAP," on page 67.
 - **e.** If you are creating a vertically clustered system, follow instructions in "Setting Up a Content Server Cluster (Optional)," on page 68.
 - f. 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 Application Server as well as integrating WebLogic Application Server with either the Apache or IIS web server.

This part contains the following chapter:

- Chapter 3, "Installing WebLogic Application Server"
- Chapter 4, "Configuring WebLogic Application Server"

Chapter 3 Installing WebLogic Application Server

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

This chapter contains the following sections:

- Start/Stop Commands
- Installing WebLogic Application Server

Start/Stop Commands

This section lists commands that are used in this guide for managing WebLogic Application 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>

Installing WebLogic Application Server

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

🔂 BEA Installer - BEA Products	
Welcome This installer will guide you through the installa BEA Products	ation of bea
<i>bea</i>	Instructions Click the Next button to proceed to the next screen. If you want to change entries in a previous screen, click the Previous button. You may quit the installer at any time by clicking the Exit button.
Exit	Previous 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.	sbea r
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	
E <u>x</u> it	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. In the "Choose Components" screen, do the following:
 - a. Make sure the following components under WebLogic Server are selected:
 - Server
 - Server Examples
 - Web Server Plug-Ins (select this only if you will be using a web server)
 - b. Deselect Workshop for WebLogic Platform and all of its sub-components.
 - c. Deselect WebLogic Portal and all of its sub-components.
 - d. Click Next.

😹 BEA Installer - BEA Products 📃 🔲 🗙			
Choose Components Select the components you wish to install. Greyed components are already installed.	«bea ·		
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	őbea [.] V
Installingdoc.zip	0%
Exit	Previous Next

Note

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

10. Continue with Chapter 4, "Configuring WebLogic Application Server" to configure a WebLogic domain.

Chapter 4 Configuring WebLogic Application Server

This chapter contains information about configuring WebLogic Application 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 r	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 (JDB messaging (JMS) settings. You can also incorporate additional functionality in your domain, for example, by including AquaLogic Service Bus.	C) and	
E <u>x</u> it <u>H</u> elp	<u>P</u> revious	<u>N</u> ext

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 on the required components or by selecting from a list of existing domain templates.	«bea r
\odot Generate a domain configured automatically to support the followin	g BEA 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	
Template location: /u01/software/Apps/WebLogic9.2/weblogic92/common/tem	t <u>B</u> rowse
E <u>x</u> it <u>H</u> elp	Previous Next

FatWire

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

	🖪 BEA WebLogic Configuration Wizard				
C C T	Configure Administrator reate a user to be assigned to t his user is the default administi	r Username and Password he Administrator role. rator used to start development mode servers.	(bear		
	Ois <u>c</u> ard Changes				
	*User name:	weblogic			
	*User password:				
	*Confirm user password:	******			
	Description:	This user is the default administrator.			
ļ					
	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 67). 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.					
Before putting a domain into production, BEA recommends that you familiarize yourself with the content of "Securing a Production Environment" at http://e-docs.bea.com/wis/docs90/lockdown/index.html. To use WebLogic JRockit in production, BEA recommends developing and testing your applications with WebLogic JRockit early in the projec cycle. For information about WebLogic JRockit, see the WebLogic JRockit 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 @ /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.	O Other JDK Location: Browse				
E <u>x</u> it <u>H</u> elp	Previous Next				

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.	«bea			
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 ● Yes				
E <u>x</u> it <u>H</u> elp	Previous Next			

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 Configuration Wizard						
Configure the Administration Server Enter administration server configurations. Each WebLogic Server domain must have one Administration Server. The Administration Server hosts the Administration Console which is used to perform administrative tasks.						
💍 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 68.

b. Click Next.

	BEA WebLogic Configur	ation Wizard					
C A M	Configure Managed Servers Add or delete configuration information for Managed Servers. A typical production environment has one or more Managed Servers. Each Managed Server is an instance of WebLogic Server used to host enterprise applications.						
	📴 <u>A</u> dd 🗙 <u>D</u> elete 💆 I	Dis <u>c</u> ard Changes			Switch Disp	lay	
	Name*	Listen address	Listen port	SSL listen port	SSL enabled		
	→ 1 ManagedServer	10.120.19.219	7002	N/A			
	•					▶	
,	E <u>x</u> it <u>H</u> elp				Previous Next		

- 5. If you are *not* creating a cluster, click **Next** and skip to step 6 on page 35. 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 WebLogic Configu	ration Wizard				
C A a	Configure Clusters Add or delete configuration information for clusters. A cluster contains multiple WebLogic Server instances that run simultaneously and work together to provide increased scalability and reliability. A cluster appears to be a single WebLogic Server instance to clients.					
	📮 <u>A</u> dd 🗙 <u>D</u> elete 💆	Dis <u>c</u> ard Changes		<u> </u>	itch Display	
	Name*	Multicast address	Multicast port	Cluster address		
	→ 1 csCluster	239.192.0.0	7	/001		
	4					
	E <u>x</u> it <u>H</u> elp			Previous	<u>N</u> ext	

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.		<i>s</i> bea [.]
Select a cluster in the right pane. Then select the managed serve arrow button.	er(s) in the l	eft pane and assign them to the cluster by clicking the right
Server		Cluster So csCluster
	→	
	+	
E <u>x</u> it <u>H</u> elp]	Previous <u>N</u> ext

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

BEA WebLogic Configuration Wizard	1						
Configure Machines Add or delete configuration information for machines. A machine is the logical representation of the system that hosts one or more WebLogic Server instances. The Administration Server and Node Manager application use the machine definition to start remote servers.							
Machine Unix Machine	Machine Unix Machine						
📴 <u>A</u> dd 🗙 <u>D</u> elete 🕐 Dis <u>c</u> ard Chan	ges						
Name*	Node manager listen address	Node manager listen port					
→ 1 csNodeMgr	10.120.19.219	5556					
4							
E <u>x</u> it <u>H</u> elp		Previous Next					

35

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.	á	bea [.]
Select a machine in the right pane. Then select the server(s) in th button.	ne left pane	and assign them to the machine by clicking	the right arrow
Server	→	Machine Machine CSNodeMgr AdminServer ManagedServer	
E <u>x</u> it <u>H</u> elp	J	<u> </u>	revious <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**.

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

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 With the second secon	zard	
Creating Domain		(bea)
bea	Progress:	96
E <u>x</u> it <u>H</u> elp		Previous 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 39.
- **b.** For non-production environments, disable host name verification. For instructions, go to "Disabling Host Name Verification," on page 39.
- 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 41.

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 41.
- **2.** Create the data source. For instructions, see "Creating and Configuring a Data Source," on page 41.

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.
- 2. 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 Dalaase Config ration button	Settings for AdminServer		
to allow others to edit the			
domain.	Configuration Protocols Logging D	ebug Monitoring Control Deployments Services	Security Notes
Lock & Edit	General Cluster Services Keys	stores SSL Federation Services Deployment	Migration Tuning Overload Health Monitoring Server Start
Release Configuration	Save		
Iomain Structure	This page lets you view and define	various Secure Sockets Layer (SSL) settings for this s	erver instance. These settings help you to manage the security of
csDomain © Environment	message transmissions.		
-Clusters -Virtual Hosts -Micratable Targets	Identity and Trust Locations:	Keystores 💌	Indicates where SSL should find the server's identity (certificate and private key) as well as the server's trust (trusted CAs). More Info
-Machines	- Identity		
Startup & Shutdown Classes Deployments	Private Key Location:	from Demo Identity Keystore	The keystore attribute that defines the location of the private key file. More \ensuremath{Info}_{**}
Security Realms S-Interoperability S-Diagnostics	Private Key Alias:	Demoldentity	The keystore attribute that defines the string alias used to store and retrieve the server's private key. More Info
low do I	Private Key Passphrase:		The keystore attribute that defines the passphrase used to retrieve the server's private key. More Info
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 trusted certificate. More Info
enabled	Trust		
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 certificate authorities. More Info
aystem Status 🔲			
Health of Running Servers	🐻 Hostname Verification:	None	Specifies whether to ignore the installed implementation of the weblogic.security.SSL.HostnameVerifier interface (when this server is
Halled (0)			acting as a client to another application server). More anto
Overloaded (0)	4 Custom Hostname Verifier:		The name of the class that implements the weblogic.security.SSI.HostnameVerifier interface. More Info
Warn (0)	Export Key Lifespan:	500	Indicates the number of times WebLogic Server can use an exportable key between a domestic server and an exportable client before

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 60.)

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)

Cibea WEBLOGIC SERV		
Change Center	Welcome, weblogic Connected to: csDomain & Home Log Out Preferences Help Ask	NEA
View changes and restarts No pending changes exist. Click	Home > Summary of Services: 200C > Summary of 300C Data Sources Create a New 30BC Data Source	
to allow others to edit the domain.	Bod. Next Frich 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 3DBC data source?	
csDomain B Environment	Name: csDataSource1	
Services Messaging	What INDI name would you like to assign to your new IDBC Data Source?	
B-JDBC Data Sources Multi Data Sources Data Source Factories Data Source Factories Partistent Stores Path Services Poreign XDI Providers Work Content Content	MDI Name:	
-XML Registries -XML Entity Caches	What database type would you like to select?	
- JCOM Mail Sessions	Database Type: DB2 💌	
JTA Security Realms	What database driver would you like to use to create database connections?	
 enteroperability enteroperability 	Database Driver: #BEA's DB2 Driver (Type 4) Versions:7X8X	
How do I	Dad: Next Prish Cancel	
Create JDBC data sources Create LLR-enabled JDBC data sources		

- 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**.

Cibea WEBLOGIC SERVE	ER							
Change Center	Welcome, weblogic		Connected to: csDomain	Home	Log Out	Preferences	Help	AskBEA
View changes and restarts	Home > Summary of Services: XDDC > Summary of	3DBC Data Sources						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source]						
Lock & Edit Release Configuration	Connection Properties Define Connection Properties.							
Domain Structure	What is the name of database you	would like to connect to?						
csDomain B Environment	Database Name:	VMWL92						
Deployments Services	What is the name or IP address of	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	erver used to connect to the database	r					
Persistent Stores Path Services Eoreign INDL Providers	Port:	50002						
Work Contexts XML Registries	What database account user name	e do you want to use to create databa	e connections?					
-XML Entity Caches -;COM	Database User Name:	csuser						
-File T3 -JTA	What is the database account pas	sword to use to create database conne	ections?					
Security Realms S-Interoperability	Password:							
How do I	Confirm Password:							
Create 306C data sources Create LLR-enabled 306C data sources	Back Next Pinish 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 Next	Finish Cancel
Domain Structure	Test Database Connection	
csDomain ® Environment	Test the database availability and th	e connection properties you provided.
Genvices B-Messaging B-108C	What is the full package name of classpath of any server to which it	IDBC driver class used to create database connections in the connection pool? (Note that this driver class must be in the t is deployed.)
Data Sources Multi Data Sources	Driver Class Name:	weblogic jdbc.db2 DB2
Pata Source Factories Persistent Stores Path Services	What is the URL of the database t	to connect to? The format of the URL varies by X08C driver.
-Foreign 3NDI Providers -Work Contexts	URL:	dbc:bee:db2;//10.120.1\$
-XML Registries -XML Entity Caches -XOM	What database account user nam	e do you want to use to create database connections?
-Mail Sessions -File T3	Database User Name:	csuser
-JTA -Security Realms	What is the database account pas	sword to use to create database connections?
Diagnostics	Password:	
How do L	Confirm Password:	
Create JDBC data sources Create LLR-enabled JDBC data sources	What are the properties to pass t	o the JOBC driver when creating database connections?
System Status	Descentions	user=csuser portMumber=50002 databaseMumae*TWU.92
Health of Running Servers	Propercies:	batchFerformanceWorkaround-true
Critical (0)	What table areas or COL statement	
Overloaded (0)	what table name or SQL stateme	In would you like to use to test database connections?
Warn (0)		SQL SELECT COUNT(*) FROM SYSIEM.SYSTABLES

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

Chea ADMINISTRATION CONSO				_			_
hange Cente r	Welcome, weblagic	Connected to: csDomain	- Home	Log Out	Preferences	Help	AskBEA
View changes and restarts	Hone > Summary of Services: 300C > Summary of 300C Data Sources						
the Release Configuration button to allow others to edit the domain.	Back Next Final Cancel						
Lock & Edit Release Configuration	Select Targets You can select one or more targets to deploy your new JDBC o You will need to deploy the data source at a later time.	lata source. If you don't select a target, the d	ata source w	ill be create	d but not deplo	ved.	
Jomain Structure	Servers						
csDomain	☑AdminServer						
Deployments	ManagedServer						
Services B-Messaging B-Messaging Data Sources Data Sources Data Source Factories Data Source Factories Data Source Factories Parkisent Stores Parkisent Stores Parkisent Stores Parkisent Stores NML Britty Caches JOOM Mail Sessions Hile T3 JTA Security Realms Pinteroperability B-Diagnostics	Back Next Finish Cancel						
low do I 📧							
Create 30BC data sources							

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 5, "Installing and Configuring the Web Server."
 - To install Content Server, follow instructions in Chapter 6, "Installing and Configuring Content Server."

Deploying Web Applications

This section shows you how to deploy a web application on WebLogic Application Server using the weblogic.Deployer utility. You will refer to the steps below halfway through the Content Server installation (Chapter 6).

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:

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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 5, "Installing and Configuring the Web Server"

Chapter 5 Installing and Configuring the Web Server

This chapter provides guidelines for integrating WebLogic Application 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 Application 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 6, "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:
	<bea_home>\weblogic92\server\native\win\ <os_version>iisproxy.dll</os_version></bea_home>
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:

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

- 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 6, "Installing and Configuring Content Server."

Part 4 Content Server

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

• Chapter 6, "Installing and Configuring Content Server"

Chapter 6 Installing and Configuring Content Server

This chapter provides guidelines for installing Content Server on WebLogic Application 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 7, 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 46.

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

- Make sure you have completed Steps I IV.1 in the "Installation Quick Reference," on page 7.
- 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 61.

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. Integrating with LDAP
- E. Setting Up a Content Server Cluster (Optional)
- F. 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.

UserN	ame:	
Passw	ord:	
	Login Area	<u>t.</u>
-		
	Login: advanced	Installed Products:

- **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, you are logged in to the built in Content Server management site. Only system administration functionality is available.

FatWire Content Server 7		📧 Valer - twadmin I Help I Logout
advanced dash insite analytics		
🖆 New 🔍 Search 📬 My Work 🖓 Wor	kflow 📲 Site Plan 💩 Publishing 🛛 Options 🕑	Ster Management Site
Admin Site Admin Workflow	My Work	
Sites S	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 one sample site, you are logged in to that site.

FatWire Content Server 7		😥 User: (wadmin Help Logout
advanced dash insite analytics		
🖆 New 🔍 Search 🕞 My Work 🖓 Wo	kflow 😤 📰 Site Plan 🛛 Yublishing 📋 Options 🝸	Ste: FirstSitell
Artwork Documents Vistors Site Design Products Content Active List Query Design Marketing Site Plan Admin Site Admin Workflow FirstSiteIT Site Placed Pages T Unplaced 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
FirstSiteII	FirstSite Mark II	ArtworkEditor, GeneralAdmin, Approver, ContentEditor, WorkflowAdmin, Analyst, Pricer, Marketer, SteAdmin, Checker, MarketingAuthor, MarketingEditor, Author, Editor, ContentAuthor, Expert, ProductAuthor, ProductEditor, DocumentAuthor, ArtworkAuthor, Designer, DocumentEditor
GE Lighting	GE Lighting	Designer, SiteAdmin, WorkflowAdmin, GeneralAdmin

[Log in again]



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

Logging in to the Dash Interface

1. Point your browser to the following URL:

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

Content Server displays the Dash interface login page.

FatWire	Content Server 7
Select Site)	Select a Site
User Name	
Password	
	E Remember my user name
	Login Beset
	Epropt your password?
	Donthave an account?

- **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 Dash 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: feadmin <u>Help</u>	Logout
advanced dash insite analytics		Search Criteria	Er Er	iter Search Text Here 🛛 🍯	search
Currently Logged In To: FirstSite Mark II	Click on a	dash an icon to put content to work.		How do L Create content? Edit content? Preview content? Approve content? Finish an assignment! Check out content?	,
Ver Top Priority Original 2007 Ony List Ony List Ony System Ony History	Neve Content Parent	New Content New Document Par	e nt	Search content? Access advanced feat Add content to a tag? Rename a tag? Create a tag? Run a tag? Remove content from Delete a tag?	tures? 1 a tag?
My Checkouts My Assignments	Quick Info My Roles Assignments Checkouts Last Item Edited	FSIIHome / May 21.2007 13:5	View 4 0		
	Tasks I have Assigned	1010000 / Pay 22,000 / 10.0	0	🍖 Learn about FatWire	
	Lest Time Logged In	May 21,2007 15:0	2 PM	Support Training ContentServer Manu Produts News User Groups Developerket Analytics	als
Site Plan					
Asset Tree					
New 🖉 Edit					
a				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.

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

-

[Log in again]

You are currently logged in as 'fwadmin'



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 46 (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. Integrating with LDAP

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.

E. 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 60. 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>. 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 "Verifying the Installation," on page 61.

F. 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

Post-Installation Steps
