Content Server

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Installing Content Server with IBM WebSphere Application Server

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Chapter 1 Introduction

This document provides guidelines for installing Content Server on IBM WebSphere Application Server 6.1 Network Deployment, 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 IBM WebSphere Application Server 6.1 Network Deployment (referred to throughout this guide as WebSphere Application Server and WAS), as required to support Content Server. This includes configuration of one or more WAS instances, backend databases, and integrating WAS with IBM HTTP Server and the Apache web server. Instructions on creating a vertical Content Server cluster are also provided.

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 include screen captures of dialog boxes and similar windows that you interact with in order to complete the steps. The screen captures are presented 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.

Acronyms and Variables

This guide uses the following acronyms and variables:

Name used by guide	Description
WAS	WebSphere Application Server
DM	Deployment Manager
CS	Content Server
<dm_host></dm_host>	The host name or IP address of the Deployment Manager host.
<dm_console_port></dm_console_port>	The port number on which the Deployment Manager console is listening for connections.
<dm_profile></dm_profile>	The name of the Deployment Manager profile.
<dm_soap_port></dm_soap_port>	The number of the Simple Object Access Protocol port of the Deployment Manager.
<was_host></was_host>	The host name of the machine running WAS.

Name used by guide	Description
<pre><server_name></server_name></pre>	The name of the WAS server.
<appserv_profile></appserv_profile>	The name of the application server profile.
<appserv_cell></appserv_cell>	The name of the application server cell.
<appserv_node></appserv_node>	The name of the application server node.

Paths and Directories

This guide uses the following paths and directories:

Name used by guide	Description
<was_home></was_home>	Path to the directory where WAS is installed. The path includes the name of the directory.
<cs_install_dir></cs_install_dir>	Path to the directory where Content Server is installed. The path includes the name of the directory.
<cs_shared_dir></cs_shared_dir>	Path to the Content Server shared file system directory. The path includes the name of the shared directory.
<apache_home></apache_home>	Path to the directory where the Apache web server is installed. The path includes the name of the directory.
<ibm_http_home></ibm_http_home>	Path to the directory where IBM HTTP Server is installed. The path includes the name of the directory.
<plugin_root></plugin_root>	The path to the plug-in directory of the web server. The path includes the name of the directory.

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."

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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, see our guide *Configuring Third-Party Software*.

II. Set Up the Application Server

Install and configure WebSphere Application Server by following the steps described in Chapter 3, "Installing and Configuring WebSphere Application Server," and summarized below:

- 1. Install the WebSphere Application Server software, update your installation to the latest version, and modify the WAS start script by following the steps in "Installing WebSphere Application Server," on page 20.
- **2.** Create a WAS instance on which you will install Content Server by following the steps in "Creating a WAS Instance," on page 28.

If you are creating a Content Server cluster, create a unique WAS instance for each member of the cluster.

- **3.** Configure the WAS instance for database communications, as shown in "Configuring the WAS Instance for Database Communications," on page 37. This step requires you to:
 - **a.** Create a J2C authentication. For instructions, see "Creating a J2C Authentication," on page 37.
 - **b.** Create a JDBC provider. For instructions, see "Creating a JDBC Provider," on page 41.
 - **c.** Create a JDBC data source. For instructions, see "Creating a JDBC Data Source," on page 46.

If you are creating a Content Server cluster, perform steps b and c for each member of the cluster. Cluster members can share the same J2C authentication.

III. (Optional) Set Up the Web Server

If you plan to integrate WAS with IBM HTTP Server or the Apache web server, follow instructions in Chapter 4, "Setting Up a Web Server."

IV. Install and Configure Content Server

- 1. Before you run 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.

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- For clustered installations, you have created 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.
- 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 5, "Installing and Configuring Content Server."

Half-way through the installation, the installer will display the "Install Actions" popup window. When this window appears, you will have to deploy the CS application. For instructions, see "Deploying the Content Server Application," on page 52.

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 86.

- **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 87.
 - **b.** Verify the Content Server installation by logging in as the administrator. For instructions, see "Verifying the Installation," on page 87.
 - **c.** If you are creating a vertically clustered system, follow instructions in "Setting Up a Content Server Cluster (Optional)," on page 92.
 - **d.** 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 WebSphere Application Server to support Content Server.

This part contains the following chapter:

• Chapter 3, "Installing and Configuring WebSphere Application Server"

Chapter 3

Installing and Configuring WebSphere Application Server

The chapter shows you how to install and configure WebSphere Application Server for Content Server.

This is not an exhaustive chapter, as it covers the installation of WAS only so far as needed to install and run Content Server. For more details, see the WAS documentation.

This chapter contains the following sections:

- Start/Stop Commands
- Installing WebSphere Application Server
- Creating a WAS Instance
- Configuring the WAS Instance for Database Communications
- Deploying the Content Server Application
- Restarting the Content Server Application

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Start/Stop Commands

This section lists the commands for starting and stopping WAS components.

Deployment Manager

Note

The default Deployment Manager profile name is Dmgr01.

To start:

On Windows:

```
<WAS_home>\bin\startManager.bat -profileName <DM_profile>
```

- On Unix:

<WAS_home>/bin/startManager.sh -profileName <DM_profile>

To stop:

- On Windows:

<WAS home>\bin\stopManager.bat -profileName <DM profile>

On Unix:
 <WAS_home>/bin/stopManager.sh -profileName <DM_profile>

Node Agent

Note

The default name of the first application server profile created is AppSrv01.

To start:

- On Windows:
 - <WAS_home>\bin\startNode.bat -profileName <appserv_profile>
- On Unix:

<WAS_home>/bin/startNode.sh -profileName <appserv_profile>

To stop:

On Windows:

<WAS_home>\bin\stopNode.bat -profileName <appserv_profile>

- On Unix:

<WAS_home>/bin/stopNode.sh -profileName <appserv_profile>

Application Server

Note

The default server name is server1.

The default name of the first application server profile created is AppSrv01.

To start:

- On Windows:

```
<WAS_home>\bin\startServer.bat <server_name> -profileName
<appserv_profile>
```

- On Unix:

```
<WAS_home>/bin/startServer.sh <server_name> -profileName <appserv_profile>
```

To stop:

- On Windows:

<WAS_home>\bin\stopServer.bat <server_name> -profileName <appserv_profile>

- On Unix:

```
<WAS_home>/bin/stopServer.sh <server_name> -profileName
<appserv_profile>
```

Installing WebSphere Application Server

This section describes how to install WebSphere Application Server. It contains the following steps:

A. Installing WebSphere Application Server

- B. Installing the Update Installer
- C. Updating the WAS Installation Using the Update Installer

A. Installing WebSphere Application Server

To install WebSphere Application Server

1. Create the directory where WAS will be installed. Make sure the WAS installer can read from and write to this directory.

Note

Throughout this guide, the directory where WAS is installed is referred to as <WAS_home>.

- 2. Decompress the WAS installation package into a temporary directory.
- 3. Run the WAS installer located in the WAS subdirectory:
 - On Windows: <temp_dir>\WAS\install.exe
 - On Unix: <temp_dir>/WAS/install.sh

Note

If you are installing on Unix, make sure the DISPLAY variable is set.

4. In the "Welcome" screen, click Next.

	Welcome to the IBM WebSphere Application Server Network Deployment install wizard.
WebSphere software	This wizard installs IBM WebSphere Application Server Network Deployment. Additional information can be found at the <u>Information Centers and Support sites</u> for WebSphere and related products homepage.
	Click Next to continue.
InstallShield	< <u>B</u> ack Next> Cancel

5. In the "Software License Agreement" screen, select I accept both the IBM and the non-IBM terms and click Next.



6. In the "Install Sample Application" screen, click Next.

FatWire

7. In the "Installation Directory" screen, browse to the <WAS_home> directory you created in step 1 and click Next.

WebSphere. software	Installation directory IBM WebSphere Application Server Network Deployment, Version 6.1 will b installed to the specified directory. Specify a different directory or click Browse to select a different install locati	e ion.
21	Product install location:	
PATT	C:\Program Files\IBM\WebSphere\AppServer	
	<u>Bīov</u>	vse
InstallShield	< Back Next > Ca	incel

8. In the "WebSphere Application Server environments" screen, select **Deployment** manager and click **Next**.

WebSphere. software	WebSphere Application server environments Select the type of WebSphere Application server environment to create during installation. Although only one environment type can be chosen, additional profiles can be created after installation using the Profile management tool. Environments
	Cell (deployment manager and a managed node)
Det	Deployment manager
5	Application Server
	Custom
Sale Page and	None
	Description A deployment manager administers Application Servers that are federated into (made a part of) its cell.
InstallShield	
	< <u>B</u> ack <u>Next</u> <u>C</u> ancel

- 9. In the "Enable Administrative Security" screen, do one of the following:
 - If you wish to enable administrative security, select the **Enable administrative security** check box and enter a user name and password. (Re-enter the password for verification.)
 - If you do not wish to enable administrative security, leave the **Enable** administrative security check box deselected and click Next.

For more information on the administrative security option, consult the WebSphere documentation.

WebSphere, software	Enable Administrative Security Choose whether to enable administrative security. To enable security, specify a user name and password to login to the administrative tools. The administrative user is created in a repository within the Application Server. After installation finishes, you can add more users, groups, or external repositories.
	Enable administrative security
DAT	User name:
	Password:
	J Confirm password:
	See the Information Center for more information about administrative security.
InstallShield	
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

- 10. In the "Installation Summary" screen, click Next.
- **11.** When the installation completes successfully, click **Finish**.

B. Installing the Update Installer

In order to ensure your WAS installation has the latest patches and fixes, you must update it using the IBM Update Installer. This section explains how to install the Update Installer. The next section explains how to update your WAS installation using the Update Installer.

To install the IBM Update Installer

- 1. Decompress the Update Installer archive into a temporary directory.
- 2. Start the installation process by executing the following command:
 - On Windows:

```
<temp_dir>\UpdateInstaller\install.exe
```

- On Unix:

```
<temp_dir>/UpdateInstaller/install.sh
```

3. In the "Installation Wizard for the Update Installer" screen, click Next.

🖞 Installation Wizard for the Update Installer ¥6.1.0.0						
WebSphere software	Installation wizard for the Update Installer Welcome to the install wizard for the IBM Update Installer for WebSphere software. Additional information can be found at the <u>Information Centers and</u> <u>Support sites for WebSphere and related products</u> homepage. Click Next to continue.					
installShield	< <u>B</u> ack <u>Next></u>	31				

4. In the "Software License Agreement" screen, select I accept both the IBM and the non-IBM terms and click Next.



- 5. In the "System prerequisites check" screen, do one of the following:
 - If the system prerequisites check is successful, click Next.
 - If the system prerequisites check reports that your JDK version is incorrect, stop and restart the installation. The installer will update your JDK to the latest version and restart.

When the installer restarts, go back to step 3 of this procedure.



6. In the "Installation directory" screen, specify the directory in which you want to install the Update Installer. This directory must reside inside the <WAS_home> directory. For example:

<WAS home>/UpdateInstaller

When you are finished, click Next.

🍟 Installation Wizard for t	he Update Installer ¥6.1.0.0			
₽	Installation directory			
WebSphere, software	IBM Update Installer for Websphere software, v6.1 will be installed to the specified directory.			
	You can specify a different directory or click Browse to select a directory.			
Part	Directory name:			
	C:\Program Files\IBM\WebSphere\UpdateInstaller			
	Browse			
InstallShield				
	< Back Next > Cancel			

- 7. In the "Installation Summary" screen, click Next.
- 8. When the installation completes successfully, click Finish.

C. Updating the WAS Installation Using the Update Installer

After installing the Update Installer, you must run it to update your WAS installation to the latest version.

Note

Before running the Update Installer, obtain the latest WAS maintenance package (.pak file). Maintenance packages are available from the IBM support site.

To update the WAS installation to the latest version

- **1.** Run the Update Installer:
 - On Windows:

<WAS_home>\<update_installer_dir>\update.bat

On Unix:

<WAS_home>/<update_installer_dir>/update.sh

2. In the "Before Installing" screen, click Next.

3. In the "Product selection" screen, browse to the <WAS_home> directory and click Next.

🔮 IBM Update Installer for	r WebSphere Software V6.1.0.0	_ 🗆 X
4	Product selection	
WebSobere software	Enter the installation location of the product you want to update.	
and a solution of the solution	You can select a different directory from the drop-down list, specify a different directory or click Browse to select a directory.	
PS	Directory name:	
	C:\Program Files\IBM\WebSphere\AppServer	-
	<u>Brows</u>	e
InstallShield		
	< <u>B</u> ack <u>Next></u>	el

4. In the "Select the maintenance operation" screen, select **Install maintenance package** and click **Next**.

법 IBM Update Installer for	WebSphere Software V6.1.0.0	_ 🗆 🗵
WebSphere software	Select the maintenance operation.	
เกรเสมอกเขน	< Back Next > Ca	incel

5. In the "Maintenance package selection" screen, browse to the appropriate maintenance package (.pak file) and click Next.

법IBM Update Installer for	WebSphere Software ¥6.1.0.0			
Z	Maintenance package selection			
Web Selans	Enter the file name of the maintenance package to install.			
websphere, software	You can specify a different maintenance package or click Browse to select a maintenance package.			
PS	Maintenance package file (*.pak):			
	tings\AdministratonDesktop\Shared\6.1.0-WS-WAS-WinX32-FP0000001_app.pak			
	<u>Browse</u>			
InstallShield				
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel			

- 6. In the "Maintenance packages selected" screen, click Next.
- 7. When the update process completes successfully, click Finish.

D. Modifying the WAS Start Script

For WAS to properly support Content Server, you must make the following modifications to the WAS start script:

To modify the WAS start script

- 1. Open the WAS start script file in a text editor. The location and name of the file are:
 - On Windows: <WAS_home>\bin\startServer.bat
 - On Unix: <WAS_home>/bin/startServer.sh
- **2.** Locate the line that begins with set CLASSPATH= and add the following string at the end of that line:

```
-Dhkr=true -Dfile.encoding=UTF-8
```

- **3.** (Unix only) Add the following line after the initial comment section:
 - For Unix:

```
<LIBRARY_PATH>=<cs_install_dir>/bin:<LIBRARY_PATH>
```

- For HP-UX:

```
<SHLIB_PATH>=<cs_install_dir>/bin:<SHLIB_PATH>
```

- For Linux and Solaris:
 - <LD_LIBRARY_PATH>=<cs_install_dir>/bin:<LD_LIBRARY_PATH>
- For AIX:

```
<LIBPATH>=<cs_install_dir>/bin:<LIBPATH>
```

4. (Windows only) Add <cs_install_dir>/bin to your system path variable.

Creating a WAS Instance

This section shows you how to create an application server instance using the Profile Management Tool and the command line.

Note

For 32-bit platforms, we recommend that you use the Profile Management Tool to create the necessary profiles. For 64-bit platforms, you will need to use the command-line tool, manageprofiles.sh, as the Profile Management Tool is not available for 64-bit platforms.

This section contains the following procedures:

- Creating a WAS Instance Using the Profile Management Tool
- Creating a WAS Instance Using the Command Line

Creating a WAS Instance Using the Profile Management Tool

This section shows you how to create a WAS instance using the Profile Management Tool.

To create a WAS instance using the Profile Management Tool

- 1. Run the Profile Management Tool:
 - On Windows: <WAS_home>\bin\ProfileManagement\pmt.bat
 - On Unix: <WAS_home>/bin/ProfileCreator/pct<OS_type>.bin

Note

If you are running the Profile Management Tool on Unix, run the version of the tool appropriate to your operating system. The ProfileCreator directory contains multiple versions of the tool that correspond to different versions of the Unix operating system.

2. In the "Welcome" screen, click Next.

🚯 Profile Management Tool	
Welcome to the Profile Management tool	a la
Important information for Version 6.1 This wizard creates run-time environments that are referred to as <i>profiles</i> . At least one profile must exist to have a functional installation.	
An initial profile is created during the installation process. Use this wizard to create additional profiles that each contain a set of commands, or deployable applications and other information that defines a single application server environment.	onfiguration files, log files,
See the online information center for more information about the Profile Management tool or about setting up typical topologies for application	n servers.
Online information center link	
< Back Next >	Einish Cancel



3.	In the '	"Environment	Selection"	screen,	select	Applicatio	n server	and	click Ne	xt.
----	----------	--------------	------------	---------	--------	------------	----------	-----	----------	-----

vironment Selection			***
ect the type of WebSphere Application Server environment to create.			
vironments:			
ell (deployment manager and a federated application server)			
polication server			
ustom profile			
escription			
escription n application server environment runs your enterprise applications. WebSp	where Application Server is manag	ged from its own adminis	strative console and function:
escription n application server environment runs your enterprise applications. WebSp dependently from all other application servers.	where Application Server is manag	ged from its own adminis	strative console and functions
escription n application server environment runs your enterprise applications. WebSj dependently from all other application servers.	where Application Server is manag	ged from its own adminis	strative console and functions
escription n application server environment runs your enterprise applications. WebSj dependently from all other application servers.	where Application Server is manag	ged from its own adminis	strative console and functions
escription n application server environment runs your enterprise applications. WebSj dependently from all other application servers.	here Application Server is manag	ged from its own adminis	strative console and functions
escription n application server environment runs your enterprise applications. WebSj dependently from all other application servers.	here Application Server is manaç	ged from its own adminis	strative console and function:
escription n application server environment runs your enterprise applications. WebSj dependently from all other application servers.	ohere Application Server is manaç	ged from its own adminis	strative console and functions
escription n application server environment runs your enterprise applications. WebSj dependently from all other application servers.	where Application Server is manaq	ged from its own adminis	strative console and functions
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rescription	where Application Server is manag	ged from its own adminis	strative console and functions
Description	where Application Server is manag	ged from its own adminis	strative console and functions



- **4.** In the "Profile Creation Options" screen, do one of the following:
 - To use the default profile name, node name, and port numbers, select **Typical profile creation** and click **Next**.
 - If you wish to specify your own profile name, node name, or port numbers, select **Advanced profile creation** and click **Next**.

🏟 Profile Management Tool	
Profile Creation Options	
Choose the profile creation process that meets your needs. Pick the Typical option to allow the Profile Ma the profile. Pick the Advanced option to specify your own configuration values for the profile.	anagement tool to assign a set of default configuration values to
Typical profile creation Create an application server profile that uses default configuration settings. The Profile Managem The tool also assigns unique port values. The administrative console and the default application w administrative security. The tool might create a system service to run the application server depen privileges assigned to your user account.	nent tool assigns unique names to the profile, node, and host. ill be installed. You can optionally select whether to enable nding on the operating system of your machine and the
Advanced profile creation Create application server using default configuration settings or specify your own values for settin node, and host. You can assign your own port values. You can optionally choose whether to deplic create a Web server definition. You might have the option to run the application server as a syste and the privileges assigned to your user account.	ngs such as the location of the profile and names of the profile, yoy the administrative console and Sample applications, and am service depending on the operating system of your machine
	< <u>B</u> ack Next > ⊟nish Cancel

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- 5. In the "Administrative Security" screen, do one of the following:
 - If you wish to enable administrative security, select the **Enable administrative** security check box and enter a user name and password. (Re-enter the password for verification.)
 - If you do not wish to enable administrative security, leave the **Enable** administrative security check box deselected and click Next.

For more information on the administrative security option, consult the WebSphere documentation.

Profile Management Tool				
dministrative Security				la a
Thoose whether to enable administrative security. To enable security, supply a user name and passwor reated in a repository within the application server. After profile creation finishes, you can add more u	d for logging into sers, groups, or	administrative I external repositi	ools. This administration	strative user is
Enable administrative security				
User name:				
Password;				
J Confirm password:				
	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

- **6.** In the "Profile Creation Summary" screen, review the settings you have chosen. Write down the values of the following parameters for reference during further configuration:
 - Profile name
 - Node name
 - HTTP transport port
 - HTTPS transport port

When you are finished, click Create.

🚯 Profile Management Tool	
Profile Creation Summary	a la
Review the information in the summary for correctness. If the information is correct, click Create to a previous panels.	start creating a new profile, Click Back to change values on the
Application server environment to create: Application server	_
Location: c:\Program Files\IBM\WebSphere\AppServer\profiles\AppSrv02	
Disk space required: 200 MB	
Profile name: AppSrv02	
Make this profile the default: False	
Node name: autowin2k3Node02	
Host name: autowin2k3	
Deploy the administrative console (recommended): True	
Deploy the default application: True	
Enable administrative security (recommended): False	
Administrative console port: 9062	
Administrative console secure port: 9045	
HTTP transport port: 9081	
HTTPS transport port: 9444	
Bootstrap port: 2810	
SOAP connector port: 8881	
Run application server as a service: True	
Create a Web server definition: False	
	Cancel

7. In the "Profile Creation Complete" screen, deselect the Launch the First steps console check box and click Finish.

🚯 Profile Management Tool	
Profile Creation Complete	E C
The Profile Management tool created the profile successfully.	
The next step is to decide whether to federate the application server into a deployment manager cell.	
To federate the application server, use either the addNode command or the administrative console of the d requires the application server to be running.	leployment manager. Using the administrative console
You can start and stop the application server from the command line or the First steps console. The First step and other information and features that relate to the application server.	ps console also has links to an installation verification test
Launch the First steps console.	
To create another profile now, select the following option.	
Create another profile.	
To start the Profile management tool later, use the PMT command in the app_server_root/bin/ProfileManagement directory or the option in the First steps console.	
	< Back Next > Finish Cancel

8. If you are creating a Content Server cluster, repeat this procedure for each member of the cluster.

Creating a WAS Instance Using the Command Line

This section shows you how to create a WAS instance using the command line.

Note

On Windows, the names of the command-line tools used in this section end with .bat instead of .sh. Remember to make the necessary substitution when executing the commands on a Windows system.

To create a WAS instance using the command line

- 1. Change to the <WAS home>/bin directory.
- **2.** List existing profiles by executing the following command:

./manageprofiles.sh -listProfiles

A typical response from this command looks as follows:

```
[Dmgr01]
[AppSvr01]
```

In this example, there are two existing profiles: a Deployment Manager profile named Dmgr01, and an application server profile named AppSvr01.

- **3.** (Optional) Delete any unwanted profiles. Do the following:
 - **a.** Stop the unwanted server instances (for instructions, see "Start/Stop Commands," on page 18).
 - **b.** Delete each unwanted profile by executing the following command:

./manageprofiles.sh -delete -profileName <profile name>

- c. Delete the leftover profile directory, <WAS_home>/<profile_name>.
- 4. Create a Deployment Manager profile by executing the following command:

Note

The default parameter values for this command are as follows:

- <appserv_cell> is typically <WAS_host>Cell01
- <appserv_node> is typically <WAS_host>managerNode01
- <DM profile> is typically Dmgr01
- <appserv_profile> is typically AppServ01

Note the parameter values you specify in this step. You must use them when creating the application server profile in the next step.

```
./manageprofiles.sh -create \ -templatePath <WAS_home>/
    profileTemplates/dmgr \ -nodeProfilePath /<WAS_home>/
    profiles/<appserv_profile> \ -profileName <DM_profile> \
    -cellName <appserv_cell> \ -nodeName <appserv_node> \
    -isDefault -defaultPorts -validatePorts
```

5. Create an application server profile by executing the following command:

Note

The default parameter values for this command are as follows:

- <appserv cell> is typically <WAS host>Cell01
- <appserv node> is typically <WAS host>managerNode01
- <DM_profile> is typically Dmgr01
- <appserv_profile> is typically AppServ01

If you are not using the defaults, make sure you are using the parameter values you specified in step 4.

```
./manageprofiles.sh -create \ -templatePath <WAS_home>/
    profileTemplates/default \ -profileName <appserv_profile> \
    -cellName <appserv_cell> \ -nodeName <appserv_node> \
    -isDefault
```

- 6. Start the Deployment Manager using the Deployment Manager profile you created (for instructions, see "Start/Stop Commands," on page 18).
- **7.** Start the new application server instance (for instructions, see "Start/Stop Commands," on page 18).
- **8.** Federate the WAS instance with the Deployment Manager by executing the following command:

Note

The default Deployment Manager SOAP port is 8879.

./addNode.sh <DM_host> <DM_SOAP_port>

- **9.** Stop the Application Server (for instructions, see "Start/Stop Commands," on page 18).
- **10.** Stop the Node Agent (for instructions, see "Start/Stop Commands," on page 18).
- **11.** Stop the Deployment Manager (for instructions, see "Start/Stop Commands," on page 18).
- **12.** (Optional) If you are creating a Content Server cluster, repeat this procedure for each member of the cluster.
Configuring the WAS Instance for Database Communications

This section explains how to configure the WAS instance you created in the previous section to communicate with the database Content Server will be using.

This section contains the following steps:

- A. Creating a J2C Authentication
- B. Creating a JDBC Provider
- C. Creating a JDBC Data Source

Note

- Before completing the steps in the rest of this chapter, start the following WAS components, in the order shown. For a list of commands for starting and stopping WAS components, see "Start/Stop Commands," on page 18.
 - 1. Deployment Manager
 - 2. Node Agent
 - 3. Application Server
- 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 86).

A. Creating a J2C Authentication

The J2C authentication contains the login information that WAS will use to connect to the Content Server database.

A J2C authentication is the first of the three components required to set up your WAS instance to connect to your database.

If you are creating a Content Server cluster, the cluster members can share the same J2C authentication.

To create a J2C authentication

1. Log in to the Deployment Manager console:

Note

The default Deployment Manager console port is 9060.

a. Point your browser to the following URL:

http://<DM_host>:<DM_console_port>/admin

- **b.** Enter your user name and password.
- c. Click Log in.

The Deployment Manager console loads.

2. In the left-hand pane, expand the Security node.

View: All tasks 💌
Welcome
Guided Activities Guided Activities Subscript Activities Subscrite Subscript Activities Subscript Activities Subs
🖻 Security
 Secure administration, applications, and infrastructure SSL certificate and key management Bus Security Web services
🕀 Environment
E System administration
🛨 Users and Groups
🕀 Monitoring and Tuning
Troubleshooting
I UDDI

- **3.** Under the **Security** node, select **Secure administration**, **applications**, and **infrastructure**.
- 4. In the "Authentication" area in the right-hand pane, expand the Java Authentication and Authorization Service node and click J2C authentication data.

Security Configuration Wizard Security Configuration Report	
Administrative security Administrative User Roles Enable administrative security Administrative User Roles Administrative Group Roles	Authentication Use domain-qualified user names Web security
Application security	RMI/IIOP security Java Authentication and Authorization Service Application logins Output logins
Java 2 security Use Java 2 security to restrict application access to local resources W Warn if applications are granted custom permissions	System logins J2C authentication data Authentication mechanisms and expiration
Restrict access to resource authentication data User account repository Current realm definition	 External authorization providers <u>Custom properties</u>
Local operating system Available realm definitions Local operating system	

The console displays the "JAAS – J2C authentication data" screen.



5. In the "JAAS – J2C authentication data" screen, click **New**. The console displays the "Configuration" tab.

cure administration, applications, and infrastructure ?			
	when any task and taken been been been been been and a star when the task and taken been		
secure administ	ration, applications, and infrastructure > JAAS - J2C authentication data > New		
Specifies a list o	f user identities and passwords for Java(TM) 2 connector security to use.		
Configuration			
General Prop	oerties		
* Alias			
csuser			
* Hoos ID			
* Oser ID			
* Password			

Description			
Apply	OK Reset Cancel		

- **6.** In the "Configuration" tab, do the following:
 - a. In the Alias field, enter a unique alias for this J2C authentication.
 - **b.** In the **User ID** and **Password** fields, enter the credentials of the database user account WAS will use to connect to the Content Server database. (Re-enter the password for verification.)

c. When you are finished, click **OK**. The J2C authentication you created appears in the list in the "JAAS – J2C authentication data" screen.

ecure adn	ninistration, applications, and infrast	ucture	?
	🖃 Messages		
	🛆 Changes have been made	to your local configuration.	You can:
	 <u>Save</u> directly to the master 	r configuration.	
	 <u>Review</u> changes before say 	ving or discarding.	
	An option to synchronize the saving can be enabled in <u>Pre</u>	configuration across multipl ferences.	e nodes after
	▲ The server may need to b effect.	e restarted for these change	es to take
Specifie	administration, applications, and infra s a list of user identities and password rences	<mark>astructure</mark> > JAAS - J2C aut Is for Java(TM) 2 connector	hentication data security to use.
New	Delete		
) # \$		
Select	Alias 🛟	User ID 🗘	Description 🗘
	autowin2k3CellManager01/csuser	csuser	
Total 1			

- 7. In the "Messages" box, click Save.
- 8. In the "Save" screen, do the following:
 - a. Select the Synchronize changes with nodes check box.
 - b. Click Save.

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9. In the "Synchronize changes with nodes" screen, click OK.

ent status of the Nodes being synchronized.	
_	~
🗓 ADMS0200I: The configuration synchronization started for cell.	
ADMS0202I: Automatic synchronization mode is disabled for node: autowin2k3Node01.	
ADMS02011: The configuration synchronization started for node: autowin2k3Node01.	=
ADMS0205I: The configuration synchronization completed successfully for node: autowin2k3Node01.	
ADMS0203I: The automatic synchronization mode is enabled for node:	-

10. Restart the application server for the changes to take effect. For a list of start and stop commands, see "Start/Stop Commands," on page 18.

B. Creating a JDBC Provider

A JDBC provider encapsulates all data sources that use a vendor-specific JDBC driver implementation.

A JDBC provider is the second of the three components required to set up your WAS instance to connect to your database.

If you are creating a Content Server cluster, you must create a separate JDBC provider for each cluster member.

To create a JDBC provider

1. If you are using a DB2 or Oracle database, place the following JAR files in the <WAS_home>/universalDriver/lib directory:

Note

If you are using SQL Server, skip this step.

- For DB2:
 - db2jcc.jar
 - db2jcc_license_cu.jar
- For Oracle:
 - ojdbc14.jar
- **2.** Log in to the Deployment Manager console:

Note

The default Deployment Manager console port is 9060.

a. Point your browser to the following URL:

http://<DM_host>:<DM_console_port>/admin

- **b.** Enter your user name and password.
- c. Click Log in.

The Deployment Manager console loads.

3. In the left-hand pane, expand the **Resources** node.



4. Under the **Resources** node, expand the **JDBC** node and click **JDBC Providers**. The console displays the "JDBC providers" screen.

DRC providenc			2
DBC providers			
JDBC provide	215		
Use this page implementati <u>activity</u> . A gui	e to edit properties of a JDBC provid ion class for access to the specific ve ided activity provides a list of task s	er. The JDBC provider object encapsula andor database of your environment. Le teps and more general information abo	tes the specific JDBC driver earn more about this task in a <u>quided</u> out the topic.
🖯 Scope: Ce	ll=autowin2k3Cell01, Node=autowin	n2k3Node01, Server=server1	
is and h Node ⊕ Preference	ow it works, <u>see the scope settings</u> =autowin2k3Node01, Server=server		
New D	elete		
00**	*		
Select Na	me 🛟	Scope 🗘	Description 🗘
None			
Total 0			

5. In the "Scope" area of the "JDBC providers" screen, select Node=<appserv_node>, Server=<server_name> from the drop-down list and click New.

Note
The default name of the first application server node created is <pre><was_host>Node01.</was_host></pre>
The default server name is server1.

- 6. In the "Create a new JDBC provider" screen, do the following:
 - **a.** In the "Database type" drop-down list, select the database Content Server will be using.

b. In the "Provider type" drop-down list, select the provider corresponding to the database you selected in step a, as shown in the following table:

Database type	Corresponding provider type
DB2	Universal JDBC Driver Provider
Oracle	Oracle JDBC Driver
SQL Server	WebSphere embedded ConnectJDBC driver for MS SQL Server

- **c.** In the "Implementation type" drop-down list, select **Connection pool data source**.
- d. In the Name field, enter a unique name for this JDBC provider.
- e. Click Next.

Step 1: Create new JDBC provider	Create new JDBC provider
- Step 2: Enter database class path information	Set the basic configuration values of a JDBC provider, which encapsulates the specific vendor JDBC driver implementation classes that are required to access the database. The wizard fills in the name and the description fields, but you can type different values.
	Scope
	cells:autowin2k3Cell01:nodes:autowin2k3Node01:servers:server1
	★ Database type DB2
	★ Provider type DB2 Universal JDBC Driver Provider ▼
	★ Implementation type Connection pool data source
	* Name
	DB2 Universal JDBC Driver Provider
	Description Non-XA DB2 Universal JDBC Driver-compliant Provider. Datasources created under this provider support only 1-phase commit processing except in the case where driver type 2 is used under WAS 2/OS. On WAS 2/OS, driver type 2 uses RRS and supports 2-phase commit
	processing

- 7. In the "Enter database class path information" screen, do one of the following:
 - If you selected **DB2** or **Oracle** in step 6, enter the location containing the database-specific JAR files you copied in step 1, that is:

<WAS_home>/universalDriver/lib When you are finished, click **Next**. - If you selected **SQL Server** in step 6, click **Next**.



8. In the "Summary" screen, review the settings you have chosen, then click Finish.

Create a new JDBC Provider					
Create a new JDBC Provid	er				
Step 1: Create new JDBC provider	Step 1: Create new Summary				
Step 2: Epter	Summary of actions:				
database class path	Options	Values			
mormation	Scope	cells:autowin2k3Cell01:nodes:autowin2k3Node01:servers:server1			
→ Step 3: Summary	JDBC provider name	DB2 Universal JDBC Driver Provider			
	Description	Non-XA DB2 Universal JDBC Driver-compliant Provider. Datasources created under this provider support only 1-phase commit processing except in the case where driver type 2 is used under WAS χ/OS . On WAS χ/OS driver type 2 uses RRS and supports 2-phase commit processing			
	Class path	\${D82UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc.jar \${UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc_license_cu.jar \${D82UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc_license_cisuz.jar			
	\${DB2UNIVERSAL_JDBC_DRIVER_PATH}	C:\u01\software\Apps\Websphere61\AppServer\universalDriver\lib			
	\${UNIVERSAL_JDBC_DRIVER_PATH}	null			
	Native path	\${DB2UNIVERSAL_JDBC_DRIVER_NATIVEPATH}			
	\${DB2UNIVERSAL_JDBC_DRIVER_NATIVEPATH}				
	Implementation class name	com.ibm.db2.jcc.DB2ConnectionPoolDataSource			
Previous Finish	Cancel				

- 9. In the "Messages" box, click Review.
- **10.** In the "Save" screen, do the following:
 - a. Select the Synchronize changes with nodes check box.
 - **b.** Click Save.
- 11. In the "Synchronize changes with nodes" screen, click OK.

The console redisplays the "JDBC Providers" screen. The new JDBC provider appears in the list of providers in the right-hand pane.

12. If you selected **DB2** in step 6, do the following:

If you selected **Oracle** or **SQL Server** in step 6, skip the steps below and proceed to the next section.

Note

- **a.** In the list of JDBC providers in the right-hand pane, select the JDBC provider you created earlier in this section.
- **b.** In the **Class path** field of the "DB2 Universal JDBC driver provider" screen, do the following:
 - 1) Delete the path to the db2jcc_license_cisuz.jar file.
 - 2) Change the variable name for the db2jcc_license_cu.jar file

from: \${UNIVERSAL JDBC DRIVER PATH}

to: \${DB2UNIVERSAL JDBC DRIVER PATH}

DBC providers > DB2 Universal JDBC Driver Provider	
se this page to edit properties of a JDBC provider. The JDBC provider obje- nplementation dass for access to the specific vendor database of your env	t encapsulates the specific JDBC driver ironment.
Configuration	
General Properties	Additional Deposition
* Scope	
cells:autowin2k3Cell01:nodes:autowin2k3Node01:servers:server1	 <u>Data sources</u> <u>Data sources (WebSphere</u> Application Server V4)
* Name	
DB2 Universal JDBC Driver Provider	
Description	
Non-XA DB2 Universal JDBC Driver-compliant Provider. Datasources created under this provider support only 1-phase commit processing except in the case where driver type 2 is used	
Class path \${UNIVERSAL_JDBC_DRIVER_PATH}/db: \${UNIVERSAL_JDBC_DRIVER_PATH}/db:	
Native library path \${DB2UNIVERSAL_IDBC_DRIVER_NATIV	
* Implementation class name	
com.ibm.db2.jcc.DB2ConnectionPoolDataSource	
Apply OK Reset Cancel	

- c. Click OK.
- d. In the "Messages" box, click Review.
- e. In the "Save" screen, do the following:
 - 1) Select the Synchronize changes with nodes check box.
 - 2) Click Save.
- f. In the "Synchronize changes with nodes" screen, click OK.

C. Creating a JDBC Data Source

Once you have created the J2C authentication and the JDBC provider, you must create a data source.

A data source is the final component required to set up your WAS instance to connect to your database.

If you are creating a Content Server cluster, each cluster member data source must use:

- The J2C authentication you created in step A. Creating a J2C Authentication.
- The JDBC provider created for the scope of that cluster member.

Note

Before starting this procedure, make sure you have done the following:

- 1. Created a J2C authentication by following the steps in step A. Creating a J2C Authentication.
- 2. Created a JDBC provider by following the steps in step B. Creating a JDBC Provider.

To create a JDBC data source

1. Log in to the Deployment Manager console:

Note

The default Deployment Manager console port is 9060.

- a. Point your browser to the following URL: http://<DM_host>:<DM_console_port>/admin
- **b.** Enter your user name and password.
- c. Click Log in.

The Deployment Manager console loads.

2. In the left-hand pane, expand the Resources node.



3. Under the **Resources** node, expand the **JDBC** node, and click **Data sources**. The console displays the "Data sources" screen.

Data sources Use this page to edit the settings of a data source that is associated with your selected JDBC provider. The data source object supplies your application with connections for accessing the database. Learn more about this task in a guided activity. A guided activity provides a list of task steps and more general information about the topic. Scope: Cell=autowin2k3Cell01, Node=autowin2k3Node01, Server=server1 Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, see the scope settings help. Node=autowin2k3Node01, Server=server1 Preferences New Delete Test connection Manage state Select Name ☆ JNDI name ☆ Scope ☆ Provider ☆	ata sources					?
Use this page to edit the settings of a data source that is associated with your selected JDBC provider. The data source object supplies your application with connections for accessing the database. Learn more about this task in a <u>guided activity</u> . A guided activity provides a list of task steps and more general information about the topic. Scope: Cell=autowin2k3Cell01, Node=autowin2k3Node01, Server=server1 Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, <u>see the scope settings help</u> Node=autowin2k3Node01, Server=server1 Preferences New Delete Test connection Manage state Provider Autom A	Data sources					
 Scope: Cell=autowin2k3Cell01, Node=autowin2k3Node01, Server=server1 Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, see the scope settings help. Node=autowin2k3Node01, Server=server1 ▼ Preferences New Delete Test connection Manage state New Delete Test connection Manage state Select Name ↑ JNDI name ↑ Scope ↑ Provider ↑ Description ↑ Category ↑ 	Use this page to edit the setti supplies your application with guided activity provides a list	ngs of a data source th connections for accessi of task steps and more	nat is associated with yo ng the database. Learn e general information al	our selected JDBC prov more about this task bout the topic.	ider. The data s in a <u>quided act</u>	source object <u>ivity</u> . A
Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, see the scope settings help Node=autowin2k3Node01, Server=server1 ▼ Preferences New Delete Test connection Manage state Image: Test connection Manage state Select Name ↑ JNDI name ↑ Scope ↑ Provider ↑ Description ↑ Category ↑	⊟ Scope: Cell=autowin2k3Ce	ll01, Node=autowin2k	3Node01, Server=serve	r1		
New Delete Test connection Manage state Image: Select Name ① JNDI name ② Scope ② Provider ③ Description ③ Category ③	Scope specifies the level is and how it works, <u>see</u> Node=autowin2k3Node	at which the resource of the scope settings help e01, Server=server1	definition is visible. For	detailed information o	on what scope	
Select Name JNDI name Scope Provider Description Category	New Delete Test co	onnection Manage	state			
Select Name 🗘 JNDI name 🏠 Scope 🏠 Provider 🗘 Description 🗘 Category 🗘						
	Select Name 🛟	JNDI name 🗘	Scope 🗘	Provider 🗘	Description 🗘	Category 🗘
None	None					
Total 0	Total 0					

4. In the "Scope" area of the "Data sources" screen, select Node=<appserv_node>, Server=<server_name> from the drop-down list and click New.

Note The default name of the first application server node created is <WAS_host>Node01. The default server name is server1.

- 5. In the "Enter basic data source information" screen, do the following:
 - a. In the Data source name field, enter a unique name for this data source.
 - **b.** In the **JNDI name** field, enter the JNDI name for this data source.

- **c.** In the "Component-managed authentication alias" drop down list, select the J2C authentication you created in step A. Creating a J2C Authentication.
- d. Click Next.

Step 1: Enter basic	Enter basic data source information
data source information	Set the basic configuration values of a data source for association with your IDBC
Step 2: Select JDBC provider	provide: A data source supplies the physical connections between the application server and the database.
Step 3: Enter database specific	Requirement: Use the Data sources (WebSphere(R) Application Server V4) console page if your applications are based on the Enterprise JavaBeans(TM) (EJB) 1.0 specification o the Java(TM) Server 2.2 constitutions
properties for the	ule Java(Im) Service 2.2 specification.
data source	Scope
	cells:autowin2k3Cell01:nodes:autowin2k3Node01:servers:server1
	* Data source name
	csDataSource
	* INDI parroa
	csDataSource
	Component-managed authentication alias and XA recovery authentication alias
	Select a component-managed authentication alias. The selected
	authentication alias will also be set as the XA recovery authentication alias if
	authentication alias, the wizard will be canceled.
	autowin2k3CellManager01/csuser 💟

- 6. In the "Select JDBC provider" screen, do the following:
 - a. Select Select an existing JDBC provider.
 - **b.** In the drop-down list, select the JDBC provider you created in step B. Creating a JDBC Provider.
 - **c.** When you are finished, click **Next**.



- **7.** In the "Enter database-specific properties for the data source" screen, do one of the following:
 - If you selected a DB2 JDBC provider in step 6, do the following:
 - 1) In the **Database name** field, enter the name of the database Content Server will be using.
 - 2) In the "Driver type" drop-down list, select 4.

- **3)** In the **Server name** field, enter the host name or IP address of the machine running the Content Server database.
- 4) In the **Port number** field, enter the port number on which the Content Server database is listening for connections.
- 5) Select the Use this data source in container managed persistence (CMP) check box.
- 6) Click Next.

Step 1: Enter basic	Enter database specific properties for the data source
Step 2: Select JDBC provider Step 3: Enter database specific properties for the data source Step 4: Summary	Set these database-specific properties, which are required by the database vendor JDBC driver to support the connections that are managed through this data source.
	wow.fatwire.com + Port number 50001 V Use this data source in container managed persistence (CMP)

- If you selected an Oracle JDBC provider in step 6, do the following:
 - 1) In the URL field, enter the URL of the database Content Server will be using. The URL you enter must be in the following format:

jdbc:oracle:thin:@//<db_host>:<db_port>/<db_name>

where:

FatWire

- <db_host> is the host name or IP address of the machine running the Content Server database.
- <db_port> is the port number on which the Content Server database is listening for connections.
- <db name> is the name of the Content Server database.
- 2) In the "Data store helper class name" drop-down list, select Oracle10g data store helper.
- **3)** Select the Use this data source in container managed persistence (CMP) check box.

4) Click Next.



- If you selected an SQL Server provider in step 6, do the following:
 - 1) In the **Database name** field, enter the name of the database Content Server will be using.
 - 2) In the "Driver type" drop-down list, select 4.
 - **3)** In the **Server name** field, enter the host name or IP address of the machine running the Content Server database.
 - 4) In the **Port number** field, enter the port number on which the Content Server database is listening for connections.
 - 5) Select the Use this data source in container managed persistence (CMP) check box.
 - 6) Click Next.

reate a data source		
Create a data source		
Step 1: Enter basic data source	Enter database specific properties for the data source	
information Step 2: Select JDBC	Set these database-specific properties, which are required by the database vendor JDBC driver to support the connections that are managed through this data source.	
Step 3: Enter database specific	* Database name autodb	
properties for the data source	* Server name apiw2k3.fatwire.com	
Step 4: Summary	* Port number 1433	
	✓ Use this data source in container managed persistence (CMP)	
Previous Next Cancel		

- 8. In the "Summary" screen, review the settings you have chosen, then click Finish.
- 9. In the "Messages" box, click **Review**.
- **10.** In the "Save" screen, do the following:
 - a. Select the Synchronize changes with nodes check box.
 - b. Click Save.

-atWire

- **11.** In the "Synchronize changes with nodes" screen, click **OK**. The console redisplays the "Data sources" screen showing the data source you just created.
- **12.** In the list of data sources, select the data source you just created.

13. In the "Additional Properties" area of the "Data source" screen, click **Connection pool properties**.

Data sources >	csDataSource
Use this page to	edit the settings of a data source that is associated with your selected JDBC provider. The data source
object supplies	your application with connections for accessing the database.

Test connection	
General Properties	Addition of Duran addition
* Scope	Additional Properties
	• - Concertion boot
cells:autowin2k3Cell01:nodes:autowin2k3Node01:servers:server1	properties
cells:autowin2k3Cell01:nodes:autowin2k3Node01:servers:server1	Properties WebSphere

- **14.** In the "Connection pools" screen, do the following:
 - **a.** In the **Maximum connections** field, enter 100 (or a value appropriate to your configuration, if known).
 - **b.** In the **Minimum connections** field, enter 10 (or a value appropriate to your configuration, if known).
 - c. Click OK.

nfiguration	
General Properties	Additional Properties
Scope	Advanced connection pool propertie
cells:autowin2k3Cell01:nodes:autowin2k3Node01:servers:server1	Connection pool custom properties
Connection timeout	
180 seconds	
Maximum connections	
100 connections	
Minimum connections	
10 connections	
Reap time	
180 seconds	
Unused timeout	
1800 seconds	
Aged timeout	
0 seconds	
Purge policy	
EntirePool 🛛 🖌	

- **15.** In the "Messages" box, click **Review**.
- **16.** In the "Save" screen, do the following:
 - a. Select the Synchronize changes with nodes check box.
 - b. Click Save.
- 17. In the "Synchronize changes with nodes" screen, click OK.
- **18.** If you are creating a Content Server cluster, repeat steps 4–17 of this procedure for each cluster member.

Deploying the Content Server Application

Half-way through the Content Server installation, you will have to deploy the CS application. This section describes how to deploy the Content Server application on WAS using the Deployment Manager console.

If you are creating a Content Server cluster, you must install and deploy a separate CS application for each member of the cluster. Each CS application in the cluster must have a unique name.

Note

Before starting this procedure, make sure you have done the following:

- **1.** Created a WAS instance which will run the CS application by following the steps in "Creating a WAS Instance," on page 28.
- Set up the WAS instance for database communications by following the steps in "Configuring the WAS Instance for Database Communications," on page 37.
- **3.** Completed the first stage of the Content Server installation process, as described in Chapter 5, "Installing and Configuring Content Server."

To deploy the Content Server application

1. Log in to the Deployment Manager console:

Note

The default Deployment Manager console port is 9060.

a. Point your browser to the following URL:

http://<DM_host>:<DM_console_port>/admin

- **b.** Enter your user name and password.
- c. Click Log in.

The Deployment Manager (DM) console loads.

2. In the left-hand pane, expand the **Environment** node.

🖃 Environment

	Virtual Hosts
	Update global Web server plug-in configuration
	WebSphere Variables
	Shared Libraries
	Replication domains
	URI Groups
+	Naming

3. Under the Environment node, click Shared Libraries.

4. In the "Shared Libraries" screen, select the appropriate scope from the drop-down list (typically, **server1**).

 Shared Libraries Use this page to define a container-wide shared library that can be used by deployed applications. Scope: Cell=realhp00Cell01, Node=realhp00Node01, Server=server1 Scope specifies the level at which the resource definition is visible. For detailed information 				
Use this page to define a container-wide shared library that can be used by deployed applications. G Scope: Cell=realhp00Cell01, Node=realhp00Node01, Server=server1 Scope specifies the level at which the resource definition is visible. For detailed information				
Scope: Cell=realhp00Cell01, Node=realhp00Node01, Server=server1 Scope specifies the level at which the resource definition is visible. For detailed information				
Scope specifies the level at which the resource definition is visible. For detailed information				
Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, <u>see the scope settings help</u>				
Node=realhp00Node01, Server=server1				
⊞ Preferences				
New Delete				
Select Name 🗘 Description 🗘				
None				
Total 0				

- 5. Click New and complete the configuration form as follows:
 - a. In the Name field, enter KeyView10
 - **b.** In the **Classpath** field, enter the path, <cs_install_dir>/bin
 - c. In the Native Library Path field, enter the path, <cs_install_dir>/bin
 - d. When you are finished, click OK.

General Properties	
* Scope	
cells:realhp00Cell01:nodes:realhp00Node01:servers:serve	1
* Name	
Key√iew10	
Description	_
]
* Classpath	_
/u01/CS/WebSphere/Alloy012607/bin/	
]
Native Library Path	2
/u01/CS/WebSphere/Alloy012607/bin/	
	j
Apply OK Beast Capal	
Apply OK Reset Cancel	

The DM console redisplays the "Shared Libraries" screen showing your changes.

6. In the "Messages" box, click Save.

hared Libraries ?					
Messages					
A Changes have been made to your local configuration. You can:					
 <u>Save</u> ungetty to the master configuration. Review degrees before gaving on disconding. 					
 <u>Review</u> changes before saving or discarding. 					
An option to synchronize the configuration across multiple nodes after saving can be					
enabled in <u>Preferences.</u>					
Δ The server may need to be restarted for these changes to take effect.					
Shared Libraries					
Use this page to define a container-wide shared library that can be used by deployed applications.					
Scope: Cell=realhp00Cell01, Node=realhp00Node01, Server=server1					
Scope specifies the level at which the resource definition is visible. For detailed information					
on what scope is and how it works, <u>see the scope settings help</u>					
Node=realhp00Node01, Server=server1 🔽					
T Drafarances					
New Delete					
Select Name \diamond Description \diamond					
KeyView10					
Total 1					

7. In the left-hand pane, expand the Applications node.



- 8. Under the Applications node, click Install New Application.
- 9. In the "Preparing for the application installation" screen, do the following:
 - a. Select Show me all installation options and parameters.

b. Select Remote file system and click Browse.

paring for the application installation	
pecify the EAR, WAR, JAR, or SAR module to upload and install.	
Path to the new application	
C Local file system	
Full path Browse	
Remote file system	
Full path Browse	
ontext root Used only for standalone Web modules (.war files) and SIP modules (.sar f	iles)
How do you want to install the application?	
 Prompt me only when additional information is required. Show me all installation options and parameters. 	
Next Cancel	

10. In the "Browse Remote Filesystems" screen, do the following:

- **a.** Select the application server node on which you are deploying the CS application.
- **b.** Browse to the <cs_install_dir>/ominstallinfo/app directory.
- c. Select the ContentServer.ear file.
- d. Click OK.

The DM console redisplays the "Preparing for the application installation" screen showing the path to the CS application file you selected.

- e. Click Next.
- **11.** In the "Choose to generate mappings and bindings" screen, click **Next**.
- **12.** In the "Application Security Warnings" screen, click **Continue**.

13. In the "Select installation options" screen, select **Precompile JavaServer Pages files** and click **Next**.

	Step 1: Select	Select installation options
	options	Specify the various options that are available to prepare and install your application.
	<u>Step 2</u> Map	Precompile JavaServer Pages files
	modules to servers	Directory to install application
	Step 3 Provide	Z. Distribute application
	JSP reloading	
	options for Web modules	Deploy enterprise beans
	Step 4 Map	Application name
	shared libraries	ContentServer
	<u>Step 5</u> Map	Create MBeans for resources
	virtual hosts for Web modules	Enable class reloading
	Step 6 Man	Reload interval in seconds
	context roots for	Deploy Web services
	web modules	Validate Input off/warn/fail
	<u>Step 7</u> Summary	warn 🛨
		Process embedded configuration
		File Permission
		Allow all files to be read but not written to
		Allow HTML and image files to be read by everyone
		Set file permissions
		.*\.dll=/55#.*\.s0=/55#.*\.a=/55#.*\.sl=/55
		Application Build ID
		Unknown
		I Allow dispatching includes to remote resources
		Allow serviang includes from remote resources
1	Vext Cancel	

- 14. In the "Map modules to servers" screen, do the following:
 - **a.** Select the check box for the **cs.war** module.
 - **b.** Select the appropriate server in the **Server** column.
 - c. Click Apply.

Step 1 Select Map modules to servers		Map modules to servers			
→	Installation options Step 2: Map modules to servers	Specify targets such as application servers or clusters of application servers where you want to install the modules that are contained in your application. Modules can be installed on the same application server or dispersed among several application servers. Also, specify the Web servers as targets that serve as routers for requests to this application. The plug-in configuration file (plugin-cfg.xml) for each Web server is generated, based on the applications that are routed through.			
	<u>Step 3</u> Provide options to compile	Clusters and Servers: WebSphere:cell=realhp00Cell01,node=realhp00Node01,server=server1			
	J5P5				
	<u>Step 4</u> Provide ISP reloading	Select Module URI Server			
	options for Web modules	cs.war cs.war,WEB-INF/web.xml WebSphere:cell=realhp00Cell01,node=realhp00Node01,server=server1			
	<u>Step 5</u> Map shared libraries				
	<u>Step 6</u> Map virtual hosts for Web modules				
	<u>Step 7</u> Map context roots for Web modules				
	<u>Step 8</u> Summary				
	Previous Next	Cancel			

15. In the "Provide options to compile JSPs" screen, change the value of the **JDK Source Level** field to 15, then click **Next**.

	<u>Step 1</u> Select	Provid	e option	s to compile JSPs				
	installation options	Specify	the opti	ons for JSP precompiler.				
	Step 2 Map	⊞ Арр	ly Multipl	e Mappings				
	modules to		D					
→	Step 3: Provide options to	Select	Web module	URI	JSP Class Path	Use Full Package Names	JDK Source Level	Disable JSP Runtime Compilation
	compile JSPs			cs.war,WEB-INF/web.xml		☑ (15	
	<u>Step 4</u> Provide JSP reloading options for Web modules		•					
	<u>Step 5</u> Map shared libraries							
	<u>Step 6</u> Map virtual hosts for Web modules							
	<u>Step 7</u> Map context roots for Web modules							
	<u>Step 8</u> Summary							
	Previous Next	Cance	1					

16. In the "Provide JSP reloading options for Web modules" screen, click Next.

- **17.** In the "Map shared libraries" screen, do the following:
 - **a.** Select the **cs.war** module check box.
 - b. Click Reference shared libraries.

	<u>Step 1</u> Select	Map shared libraries			
	options	Specify librarie	shared libraries that t s must be defined in th	the application or individual modules ne configuration at the appropriate s	reference. These scope.
	<u>Step 2</u> Map modules to	Ref	erence shared libra	ries	
	servers	Select	Application	URI	Shared Libraries
	<u>Step 3</u> Provide	Γ	ContentServer	META-INF/application.xml	
	options to compile JSPs	Select	Module	URI	Shared Libraries
	Step 4 Provide		cs.war	cs.war,WEB-INF/web.xml	
JSP reloading options for Web modules					
	Step 5: Map shared libraries				
	<u>Step 6</u> Map virtual hosts for Web modules				
	<u>Step 7</u> Map context roots for Web modules				
	Step 8 Summary				
ŀ	Previous Next Canc	el			

- **18.** In the "Enterprise Applications" screen, do the following:
 - **a.** In the **Available** field, select the Keyview library path variable you created in step 5 and click the **Add** (>>) button.
 - **b.** Click **OK**.

Enterprise Applications		2.
Map shared libraries to an entire application or	per module.	
Map libraries to the application or module liste	d	
cs.war		
Select the library in the Available list. Move it t	o the Selected list by cli	cking >>.
Available:	>>	Selected:
KeyView10	<<	×
OK Cancel		

The DM console redisplays the "Map shared libraries" screen showing your changes. When that happens, click **Next**.

19. In the "Map virtual hosts for Web modules" screen, click **Next**.

20. In the "Map context roots for Web modules" screen, click Next.

Caution

Do not change the context root displayed in this screen. Doing so will render your Content Server installation inoperable.

21. In the "Summary" screen, review the options you have chosen and click Finish.

<u>Step 1</u> Select	Summary			
installation options	Summary of installation options			
Stop 2 Map	Options	Values		
modules to	Precompile JavaServer Pages files	Yes		
servers	Directory to install application			
<u>Step 3</u> Provide	Distribute application	Yes		
options to compile	Use Binary Configuration	No		
JSPS	Deploy enterprise beans	No		
<u>Step 4</u> Provide	Application name	ContentServer		
JSP reloading options for Web	Create MBeans for resources	Yes		
	Enable class reloading	No		
Step 5 Map	Reload interval in seconds			
shared libraries	Deploy Web services	No		
Step 6 Map	Validate Input off/warn/fail	warn		
virtual hosts for	Process embedded configuration	No		
Web modules	File Permission	.*\.dll=755#.*\.so=755#.*\.a=755#.*\.sl=755		
<u>Step 7</u> Map	Application Build ID	Unknown		
context roots for Web modules	Allow dispatching includes to remote resources	No		
Step 8: Summary	Allow servicing includes from remote resources	No		
	Cell/Node/Server	Click here		
Previous Finish Can	cel			

22. In the "Installing..." screen, wait until all stages complete successfully. When the message, "Application ContentServer has installed successfully" appears, click **Save**.

Installing
If there are enterprise beans in the application, the EJB deployment process can take several minutes. Please do not save the configuration until the process completes.
Check the SystemOut.log on the Deployment Manager or server where the application is deployed for specific information about the EJB deployment process as it occurs.
ADMA5016I: installation of ContentServer started.
ADMA50671: Resource validation for application ContentServer completed successfully.
ADMA5058I: Application and module versions are validated with versions of deployment targets.
ADMA5009I: An application archive is extracted at /u01/software/Apps//VebSphere/6.1/AppServer/profiles/Dmgr01/wstemp/wstemp/app_11073a1f083/ext
ADMA5003I: The JavaServer Pages (JSP) files in the Web archive (WAR) files cs.war compiled successfully.
ADMA5005: The application ContentServer is configured in the WebSphere Application Server repository.
ADMA5053I: The library references for the installed optional package are created.
ADMA50051: The application ContentServer is configured in the WebSphere Application Server repository.
ADMA50011: The application binaries are saved in /u01/software/Apps/WebSphere/6.1/AppServer/profiles/Dmgr01/wstemp/0/workspace/cells/realhp00Cell01/applications/ContentServer.ear/ContentServer.ear
ADMA5005): The application ContentServer is configured in the WebSphere Application Server repository.
SECJ0400I: Successfuly updated the application ContentServer with the appContextIDForSecurity information.
ADMA50111: The cleanup of the temp directory for application ContentServer is complete.
ADMA5013I: Application ContentServer installed successfully.
Application ContentServer installed successfully.
To start the application, first save changes to the master configuration.
Cpanges have been made to your local configuration. You can:
• <u>Save</u> directly to the master configuration.
 <u>Review</u> changes before saving or discarding.
To work with installed applications, click the "Manage Applications" button.
Manage Applications

23. In the "Enterprise Applications" screen, click the **ContentServer** application.

Enterprise Appl	ications	2 -				
Enterprise A	pplications					
Use this page to manage installed applications. A single application can be deployed onto multiple servers.						
	S					
Start	Start Stop Install Update Rollout Update Remove File Export Export DDL					
Select	Select Name 🗘 Application Status 👲					
	ContentServer *					
	□ DefaultApplication ♥					
Total 2	Total 2					

se this page to configure an enterprise application. Click the	links to access pages for further configuring of the application
onfiguration	
General Properties	– Modules
* Name	■ <u>Manage Modules</u>
Application reference validation	Web Module Properties
	Session management
Detail Properties	 <u>Context Root For Web Modules</u> <u>JSP reload options for web modules</u>
 <u>Startup behavior</u> 	■ <u>Virtual hosts</u>
Application binaries	References
 <u>Class loading and update detection</u> <u>Remote request dispatcher properties</u> <u>View Deployment Descriptor</u> <u>Last participant support extension</u> 	Shared library references

24. In the screen that follows, click Class loading and update detection.

25. In the screen that appears, do the following:

- a. In the Polling interval for updated files field, enter 30.
- **b.** In the "Class load order" section, select **Classes loaded with application class** loader first.
- **c.** In the "WAR class loader policy" section, select **Single class loader for application**.
- d. Click OK.

e uns page to	configure the reloading of classes when application files are updated.
onfiguration	
General Pro	perties
🗌 Reload	classes when application files are updated
Polling inte	rval for updated files
30	Seconds
-Class loa	der order
Class loa	i <mark>der order</mark> 25 loaded with parent class loader first
Class loa Classe Classe	i der order 25 loaded with parent class loader first 25 loaded with application class loader first
Class loa	ider order as loaded with parent class loader first as loaded with application class loader first as loader policy
Class loa C Class C Class WAR class	ider order as loaded with parent class loader first as loaded with application class loader first as loader policy loader for each WAR file in application

26. In the "Messages" box, click **Save**.

🖻 Messages	
⚠ <u>Chang</u> es have been made to your local configuration. You can:	
• <u>Save</u> dijectly to the master configuration.	
• <u>Review</u> changes before saving or discarding.	
An option to synchronize the configuration across multiple nodes after saving can be enabled in <u>Preferences.</u> A The server may need to be restarted for these changes to take effect.	

27. In the "Enterprise Applications" screen, select the check box next to the **ContentServer** application and click **Start**.

Interprise Appli	cations	? .				
Enterprise Ap	plications					
Use this page	Use this page to manage installed applications. A single application can be deployed onto multiple servers.					
Preferences						
Start Stop Install Uninstall Update Rollout Update Remove File Export Export I						
Select	Select Name 🗘 Application Status 👲					
	ContentServer_	8				
☐ DefaultApplication						
Total 2						

28. If you are creating a Content Server cluster, repeat steps 3–27 of this procedure for each additional member of the cluster.

Restarting the Content Server Application

If you made changes to Content Server property files after the CS application has been deployed (for example, to configure CS as a cluster member), you will need to restart the CS application for the changes to take effect. This section shows you how to restart the CS application using the Deployment Manager console.

To restart the Content Server application

1. Log in to the Deployment Manager console:

Note

The default Deployment Manager console port is 9060.

a. Point your browser to the following URL:

http://<DM_host>:<DM_console_port>/admin

- **b.** Enter your user name and password.
- c. Click Log in.

The Deployment Manager console loads.

2. In the left-hand pane, expand the **Applications** node.

View: All tasks			
Welcome			
🕀 Guided Activities			
Applications			
Enterprise Applications			
Install New Application			
+ Resources			
Gecurity			

- 3. Under the Applications node, click Enterprise Applications.
- **4.** In the "Enterprise Applications" screen, select the check box next to the CS application you want to restart.

nterprise Applications		
Enterprise Applications		
Use this page to manage installed applications. A single application can be deployed onto multiple servers.		
⊕ Preference	s	
Start Stop Install Uninstall Update Rollout Update Remove File Export Export DDL		
Select	Name 🛟	Application Status 👲
	ContentServer_	8
Total 1		

- 5. Click Stop, then click OK.
- 6. Click Start, then click OK.

Part 3 Web Server

This part explains how to install and configure a supported web server. It also explains how to integrate WAS with a supported web server using the WAS web server plug-in.

This part contains the following chapter:

• Chapter 4, "Setting Up a Web Server"

Chapter 4 Setting Up a Web Server

This chapter explains how to install IBM HTTP Server, and how to integrate WAS with a local or remote installation of IBM HTTP Server or the Apache 2.0.x web server, using the WebSphere web server plug-in.

This chapter contains the following sections:

- Installing IBM HTTP Server
- Installing the Apache 2.0.x Web Server
- Integrating WAS with a Supported Web Server

Installing IBM HTTP Server

This section explains how to install IBM HTTP Server for integration with WAS.

To install IBM HTTP Server

1. Create the directory where IBM HTTP Server will be installed. Make sure the installer can read from and write to this directory.

Note

Throughout this guide, the directory where IBM HTTP Server is installed is referred to as <ibm_http_home>.

- 2. Decompress the IBM HTTP Server installer archive into a temporary directory.
- **3.** Run the IBM HTTP Server installer:
 - On Windows: install.exe
 - On Unix: install.sh
- 4. In the "Welcome" screen, click Next.

🖆 IBM HTTP Server ¥6.1.0.0	
	Welcome to IBM HTTP Server 6.1
WebSphere, software	This wizard installs IBM HTTP Server 6.1 on your computer. See the <u>IBM HTTP Server 6.1 Installation Guide</u> to learn more about this installation.
	Click Next to continue.
InstallShield	
	< <u>Back</u> <u>N</u> ext > <u>Cancel</u>

5. In the "Software License Agreement" screen, select I accept both the IBM and the non-IBM terms and click Next.



- 6. In the "System prerequisites check" screen, do one of the following:
 - If the system prerequisites check is successful, click Next.
 - If your system does not pass the prerequisites check, stop the installation, correct the problems indicated by the installer, and restart the installation.



7. In the "Enter the install location" screen, enter the path to the <ibm_http_home> directory you created in step 1, then click Next.

😫 IBM HTTP Server ¥6.1.0.	0	
	Enter the install location	
TA-	Product install location:	
WebSphere, software	C:\Program Files\IBM\HTTPServer	
North Contraction		Browse
C.		
PAT		
InstallChield		
	< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

- 8. In the "Port Values Assignment" screen, do one of the following:
 - If you want to keep the default port numbers, click Next.
 - If you want to specify your own port numbers, enter them into the appropriate fields and click **Next**.

🖞 IBM HTTP Server ¥6.1.0.0		
AJ A WebSphere. software	Port Values Assignment IBM HTTP Server communi ports are already in use by the port numbers from their	cates using the port numbers listed below. If these IBM HTTP Server or another application, then change r default values.
- Alter	HTTP Port:	80
	HTTP Administration Port:	8008
InstallShield		
		< Back Next > Cancel

9. If you are installing on Windows, do the following in the "Windows Service Definition" screen:

Note

If you are installing on Unix, skip this step.

- a. Select the **Run the IBM HTTP Server as a Windows Service** and **Run IBM HTTP Administration as a Windows Service** check boxes.
- **b.** If you want the IBM HTTP Windows services to run under a specific user account, select the **Log on as a specified user account** check box and enter the desired user name and password into the appropriate fields.
- c. Click Next.

🖄 IBM HTTP Server ¥6.1.0.	0	
WebSphere. software	Windows Service Definition Choose whether to use a Windows service to run IBM HTTP Server and IBM HTTP Administration Server, Optionally the IBM HTTP Server and IBM HTTP Administration Server can be started from the command line. Configure the startup type to have the Windows services start manually or automatically when rebooting the system.	
InstallShield	Log on as a specified user account User name: Administrator Password:	•

- 10. In the "HTTP Administration Server Authentication" screen, do the following:
 - **a.** Select the **Create a user ID for IBM HTTP administration server authentication** check box. You will use this user account to log in to the IBM HTTP administration server.
 - **b.** In the **User ID** and **Password** fields, enter the desired credentials. (Re-enter the password for verification.)

c. Click Next.

道 IBM HTTP Server ¥6.1.0	0
WebSphere software	HTTP Administration Server Authentication Create a user ID and password to authenticate to the IBM HTTP administration server using the WebSphere Application Server administrative console. The newly-created user ID and password is encrypted and stored in the conf/admin.passwd file. You can create additional user IDs after the installation by using the htpasswd utility. Create a user ID for IBM HTTP administration server authentication User ID:
	Ibmadmin Password: ******** Confirm Password: *******
InstallShield	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

11. In the "IBM HTTP Server Plug-in for WebSphere Application Server" screen, deselect the **Install the IBM HTTP Server Plug-in for WebSphere Application Server** check box and click **Next**.

🖞 IBM HTTP Server ¥6.1.0.	0 _ _ D ×
WebSphere, software	IBM HTTP Server Plug-in for IBM WebSphere Application Server Silently install the plug-in using the remote installation scenario. The host name and web server definition are used when creating the default plug-in configuration file. This file is used to route requests to the Application Server. If there are multiple Application Servers, then select one of the servers and specify the machine's host name.
	Install the IBM HTTP Server Plug-in for IBM WebSphere Application Server Web server definition: webserver1
X	Host name or IP address for the Application Server: autowin2k3
InstallShield	
	< Back <u>N</u> ext > <u>C</u> ancel

Note

If you leave the **Install the IBM HTTP Server Plug-in for WebSphere Application Server** check box selected, the plug-in will be installed only for the default WAS application server profile. To set up the plug-in on all desired WAS instances, you must use the separate plug-in installer, as described in "Integrating WAS with a Supported Web Server," on page 74.
12. In the "Installation Summary" screen, review the settings you have chosen, then click **Next**.



13. When the installation completes successfully, click Finish.

법 IBM HTTP Server ¥6.1.0	.0
	Success: The following product was successfully installed: • IBM HTTP Server - CAProgram Files\IBM\HTTPServer
WebSphere. software	IBM HTTP Server Plug-in for IBM WebSphere Application Server was successfully installed to: C:\Program Files\IBM\HTTPServer\Plugins For information on configuring and using the IBM HTTP Server, refer to the on-line IBM HTTP Server information Center.
	Click Finish to exit.
InstallShield	<u>Back</u> <u>N</u> ext > <u>Finish</u>

Installing the Apache 2.0.x Web Server

The procedure to set up the Apache 2.0.x web server (beyond the steps necessary to integrate with WAS) is not covered in this guide. For information on setting up the Apache 2.0.x web server, consult one of the following sources:

- If you are installing an Apache web server on Linux or Solaris, consult our guide *Configuring Third-Party Software* for instructions.
- If you are using an operating system other than Linux or Solaris, consult the Apache documentation.

Integrating WAS with a Supported Web Server

This section explains how to integrate WAS with IBM HTTP Server or the Apache 2.0.x web server using the WAS web server plug-in.

Note

Before starting this procedure, make sure of the following:

- You have installed and configured a web server of your choice.
- The web server is not running.

To set up the WAS web server plug-in

- 1. On the machine on which the web server is installed, decompress the WebSphere Supplements archive into a temporary directory.
- **2.** Run the WAS web server plug-in installer:
 - On Windows:

<temp_dir>\plugin\install.exe

- On Unix:

<temp_dir>/plugin/install.sh

3. In the "Welcome" screen, click Next.

🖞 Web server plug-ins for IBM WebSphere Application Server V6.1.0.0 📃 🗖 🗙		
WebSphere software	Welcome to Web server plug-ins for IBM WebSphere Application Server V6.1. This wizard installs Web server plug-ins for IBM WebSphere Application Server V6.1 on your computer. Select an item from the following list to learn more abor the installation: Imit Installation roadmap: Overview and installation scenarios Imit Plug-ins section of the Getting Started guide Installing the plug-ins also installs the required level of GSKit. Click Next to continue.	ut
InstallShield	< <u>Back</u> <u>Next</u> > <u>Cancel</u>	

4. In the "Software License Agreement" screen, select I accept both the IBM and the non-IBM terms, and click Next.

省 Web server plug-ins fo	r IBM WebSphere Application Server ¥6.1.0.0	_ 🗆 🗵
#	Software License Agreement	
	Please read the following license agreement carefully.	
WebSphere, software	International Program License Agreement	
NH.	Part 1 - General Terms	
	BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, OR USING THE PROGRAM YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF ANOTHER PERSON OR A	
	COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT AND WARRANT TH YOU HAVE FULL AUTHORITY TO BIND THAT PERSON, COMPANY, OR LEGAL ENTITY TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,	IAT L
	Read non-IBM terms	
	I accept both the IBM and the non-IBM terms	
And Alexandria	C I do not accept the terms in the license agreement	
	Print	
InstallShield		
	< <u>B</u> ack <u>N</u> ext > <u>C</u> and	el

- 5. In the "System prerequisites check" screen, do one of the following:
 - If the system prerequisites check is successful, click Next.
 - If your system does not pass the prerequisites check, stop the installation, correct the problems indicated by the installer, and restart the installation.

🗳 Web server plug-ins for	IBM WebSphere Application Server V6.1.0.0
	System prerequisites check
12-	Passed: Your operating system completed the prerequisites check successfully.
WebSphere, software	The installation wizard checks your system to determine whether a supported operating system is installed and whether the operating system has the appropriate service packs and patches.
	Click Next to continue the installation.
InstallShield	
	< <u>B</u> ack <u>Next</u> <u>C</u> ancel

6. In the "Select the web server to configure" screen, select the web server you are using (either IBM HTTP Server V6 or V6.1 or Apache Web Server V2) and click Next.

🝟 Web server plug-ins fo	r IBM WebSphere Application Server ¥6.1.0.0
×	Select the Web server to configure. All plug-in binaries are installed, but only the selected Web server will be configured.
WebSphere, software	C None
New-	C IBM HTTP Server V6 or V6.1
2 the	Apache Web Server V2
PATT	C Lotus Domino Web Server V6 or V6.5
	C Lotus Domino Web Server V7
	O Sun ONE Web Server 6.0 or Sun Java System Web Server V6.1
	C Microsoft Internet Information Services V6
	C Microsoft Internet Information Services V5
Sector during the	
InstallShield	
The Miller Hiseld	
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

- 7. In the "Scenario selection" screen, do one of the following:
 - If the web server is installed on the same machine as WAS, select **WebSphere Application Server machine (local)** and click **Next**.
 - If the web server is installed on a different machine, select **Web server machine** (remote) and click Next.

🖞 Web server plug-ins fo	r IBM WebSphere Application Server ¥6.1.0.0	. 🗆 🗙
WebSphere. software	Install the Web server plug-ins to the machine where the Web server exists. Whe the Application Server and Web server exist on the same machine, choose the li- installation scenario. When the Application Server and the Web server are not or same machine, choose the remote installation scenario. For a stand-alone application server, the webserver definition is created automatically. For more information about installation scenarios, see the Installation roadmap the Welcome panel.	en ocal othe on
	Select the installation scenario that matches your environment: Web server machine (remote) WebSphere Application Server machine (local)	
InstallShield	< Back Next > Cance	

8. In the "Installation directory" screen, browse to the web server's <plugin_root> directory and click Next.

🖄 Web server plug-ins for	IBM WebSphere Application Server ¥6.1.0.0	_ 🗆 ×
WebSphere, software	Installation directory Web server plug-ins for IBM WebSphere Application Server, Version Installed to the specified directory. Specify a different directory or click Browse to select a different insta	n 6.1 will be all location.
Part	C:\Program Files\\BM\WebSphere\Plugins	
		B <u>r</u> owse
InstallShield		
	< <u>B</u> ack <u>Next</u> >	<u>C</u> ancel

9. If you selected **WebSphere Application Server machine (local)** in step 7, browse to the <WAS_home> directory and click **Next**.

省 Web server plug-ins for	IBM WebSphere Application Server V6.1.0.0	
*	Provide the installation location of WebSphere Application Server V	ersion 6.1.
	Installation location of WebSphere Application Server:	
WebSphere, software	C:\Program Files\IBMWVebSphere\AppServer	
		Browse
InstallShield		
	< <u>B</u> ack Next>	<u>C</u> ancel



If you selected Web server machine (remote) in step 7, skip this step.

10. If you selected **WebSphere Application Server machine** (local) in step 7, select the profile name of the WAS instance you want to integrate with the web server, then click **Next**.



Note

If you selected Web server machine (remote) in step 7, skip this step.

- **11.** In the "Web server configuration file and port" screen, do the following:
 - **a.** Browse to the web server configuration file:
 - If you are using IBM HTTP Server, the location and name of the file are:
 <ibm_http_home>/conf/httpd.conf
 - If you are using the Apache web server, the location and name of the file are: <apache_home>/conf/httpd.conf
 - **b.** Specify the port on which your web server is listening for connections.
 - c. Click Next.

🝟 Web server plug-ins for	IBM WebSphere Application Server V6.1.0.0
	Select the Web server configuration files and identify the Web server port to configure the Web server definition.
WebSphere, software	Select the existing Apache Web Server httpd.conf file:
	Browse
	Specify the Web server port: 80
InstallShield	
	< <u>Back</u> <u>Next</u> <u>Cancel</u>

12. In the "Web server definition" screen, enter a unique name for this web server definition. (A web server definition stores the web server configuration data you have entered in the previous steps.) When you are finished, click **Next**.

🗳 Web server plug-ins fo	· IBM WebSphere Application Server ¥6.1.0.0
H	A Web server definition lets you manage a Web server through the administrative console.
WebSphere, software	Specify a unique Web server definition name:
	webserver1
PAT	
InstallShield	
	<u>≤ Back</u> <u>N</u> ext > <u>C</u> ancel

- 13. In the "Web server plug-in configuration" screen, click Next.
- **14.** If you selected **Web server machine (remote)** in step 7, enter the fully qualified host name or IP address of the machine where WAS is installed, then click **Next**.

쑵 Web server plug-ins fo	r IBM WebSphere Application Server V6.1.0.0
壯	Identify the host name of the Application Server machine.
WebSphere, software	The host name is used when creating the default plug-in configuration file. This file is used to route requests to the Application Server. If there are multiple Application Servers, then select one of the servers and specify the machine's host name.
A	The host name must be accessible on the network though one of the following address formats:
	Fully qualified domain name system (DNS) host name The default short DNS host name Numeric IP address
	Host name or IP address for the Application Server:
InstallShield	·
	< Back Next > Cancel

Note

If you selected **WebSphere Application Server machine (local)** in step 7, skip this step.

- **15.** In the "Web server plug-in installation information" screen, click Next.
- 16. In the "Web server plug-in installation summary" screen, click Next.

17. If you selected **Web server machine (remote)** in step 7, do the following in the "Manual configuration steps" screen:

Note If you selected **WebSphere Application Server machine (local)** in step 7, skip this step.

- **a.** When the installation completes successfully, write down the path to the manual configuration script. You will need this path to locate the script in step 19. (This path will be referred to as <plugin_root> in step 19.)
- b. Click Next.

省 Web server plug-ins fo	r IBM WebSphere Application Server V6.1.0.0
	Manual configuration steps are required before starting the Web server. Follow the configuration procedure in the roadmap document that is launched at the end of the install.
WebSphere software	Manual configuration script:
2442	C:\IBMWVebSphere\Plugins\bin\configurewebserver1.bat
DATE:	Web server to configure:
	Apache Web Server V2
	Web server definition:
	webserver1
	Plug-in configuration file:
	C:/IBM/WebSphere/Plugins/config/webserver1/plugin-cfg.xml
(mini animi animi	
InstallShield	,
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

18. In the "Installation completion status" screen, click **Finish**.

19. If you selected Web server machine (remote) in step 7, copy the manual configuration script from the <plugin_root>/bin directory on web server machine to the <WAS_home>/bin directory on the WAS machine.

Note

Before performing this step, note the following:

- If you selected **WebSphere Application Server machine (local)** in step 7, skip this step.
- The manual configuration script is named as follows:
 - On Windows: configure<web_server_definition_name>.bat
 - On Unix: configure<web_server_definition_name>.sh

where <web_server_definition_name> is the name you assigned to the web server definition in step 12.

- If the web server and WAS machines are not running the same operating system, you should instead use the manual configuration script located in the <plugin_root>/bin/crossPlatformScripts directory on the web server machine.
- 20. Run the manual configuration script:
 - On Windows: configure<web_server_definition_name>.bat
 - On Unix: configure<web_server_definition_name>.sh

Part 4 Content Server

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

• Chapter 5, "Installing and Configuring Content Server"

Chapter 5 Installing and Configuring Content Server

This chapter guides you through the installation of Content Server on WebSphere Application Server.

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 creates the CS application for deployment. 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. These steps include the deployment of the CS application; for instructions, see "Deploying the Content Server Application," on page 52.

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 the next section as required for your installation.

Post-Installation Steps

When the Content Server installation completes successfully, perform the following steps:

- A. Setting File Permissions (Unix Only)
- B. Verifying the Installation
- C. Setting Up a Content Server Cluster (Optional)
- D. 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 CS application.

B. Verifying the Installation

Verify the installation by logging in to Content Server as the administrator.

Logging in to the Advanced Interface

1. Point your browser to the following URL:

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

Content Server displays the Advanced interface login form.

FatWire Content Server 7					
User Name:					
Password:					
login reset					
Eoract your password? Don't have an account?	Installed Products: Content Server 7.0 CS-Direct 7.0 CS-Direct Advantage 7.0 CS-Engage 7.0 Commerce Connector 7.0				



- **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.



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

FatWire Content Server 7		Help Logout
advanced dash insite		You are currently logged in as: <u>firstsite</u>
🖆 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: FirstSiteII Site Image: Placed Pages Image: Placed Pages Image: Placed Pages 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, ProducAtuthor, ProducEditor, 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:	
	Remember my user name
	Forgot your password? How to bookmark this page? Don't have 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 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					<u>Help Logout</u>
advanced dash insite			fwadmin	Find All	Enter Search text 🥹
Currently logged in to:	You are currently logged into	: FirstSiteII			? How Do I
FirstSite Mark II					Smith Sectors
Create New					Edit Content?
() Tag					Approve Content?
					Finish an Assignment? Check Out Content?
User					Search Content?
- Top Priority			/		Navigate Through Search Results?
- 🗉 Campaign 2007					Add Content to a Tag?
- 🗐 My List	New Content Parent	New Content	N	lew Document Parent	Save a Search to a Tag?
🗆 🗏 Back Burner					Run a Tag?
Θ 😾 System					
- 🗎 History					
— 🗎 My Checkouts					
🗕 🗎 My Assignments					
	Content Server	Dashboard		My Roles 🔻	
	Last Time Logged In			Mar 5,2007 12:26 PM	
	Last Item Edited	FSIIHon	nePageText /	Aug 28,2005 23:21 PM	Learn More about Fatthfire
	Assignments			4	Ecan more about ratine
	Checkouts			0	Support
	Tasks I have Assigned			0	<u>ContentServer Manuals</u>
					Products News
					User Groups
					Analytics
Site Plan					
🔒 Asset Tree					
🕘 New 🛛 Edit					
🖉 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.

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

Select Site

FatWire Content Server 7				Help Logout
advanced dash insite		fwadmin	Find All	Enter Search text
Currently logged in to: Burlington Financial	You are currently logged into:	BurlingtonFinancial		How Do I <u>Create Content?</u>
Create New Tags Tags Top Priority Campaign 2007 System B History My Checkouts My Assignments Create New Create New	C New Article Flex	New Content Parent	New Drill Hierarchy	Edit Content? Approve Content? Approve Content? Finish an Assignment? Check Out Content? Navigate Chontent? Navigate Through Search Results? Access Advanced Features? Add Content to a Tag? Save a Search to a Tag? Create a Tag? Run a Tag?
	Content Server	Dashboard	My Roles 🔻	
	Last Time Logged In		Mar 5,2007 12:26 PM	
	Last Item Edited	FSIIHomePageTex	t / Aug 28,2005 23:21 PM	Learn More shout Eathting
	Assignments		0	Earn More about Fatwire
	Checkouts		0	Support
Site Plan Sasset Tree New Ø Edit	Tasks I have Assigned		0	<u>ContentServer Manuals</u> <u>Products</u> <u>News</u> <u>User Groups</u> <u>DeveloperNet</u> <u>Analytics</u>
(2)				

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. Setting Up a Content Server Cluster (Optional)

If you plan to install Content Server in a vertical cluster, follow the steps below. Before you proceed, make sure of the following:

- You are installing a vertical cluster (running WAS instances on the same machine).
- You have created a shared file system directory (referred to in this guide as <cs_shared_dir>) that all cluster members can read from and write to. The directory name and path cannot contain spaces.
- You have created a sync directory inside the shared file system directory.
- You have created a J2C authentication containing the login information for the database which all Content Server cluster members will be using. For instructions, see "Creating a J2C Authentication," on page 37.

To set up a Content Server cluster

For each cluster member, do the following:

1. Create a unique application server instance. For instructions, see "Creating a WAS Instance," on page 28.

- **2.** Create a unique JDBC provider based on the J2C authentication you created for the Content Server database. For instructions, see "Creating a JDBC Provider," on page 41.
- **3.** Create a unique JDBC data source based on the J2C authentication you created for the Content Server database, and the JDBC provider you created in step 2 of this procedure. For instructions, see "Creating a JDBC Data Source," on page 46.
- **4.** Install Content Server by running the Content Server installer and doing one of the following in the "Clustering" screen:
 - For the primary cluster member, select Single Server.
 - For each secondary cluster member, select Cluster Member.

For more information, see the online help included with the installer.

- 5. Deploy the CS application, making sure it has a unique name. For instructions, see "Deploying the Content Server Application," on page 52.
- 6. Edit the <cs_install_dir>/futuretense.ini file by making the following changes:
 - **a.** Set ft.sync to a value that is the same for all cluster members.
 - **b.** Set ft.usedisksync to <cs_shared_dir>/sync.
- **7.** Restart the CS application for the changes to take effect. For instructions, see "Restarting the Content Server Application," on page 63.

D. 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