

Oracle® Documaker

Installing and Deploying iDocumaker

version 3.2

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Setting Up iDocumaker

iDocumaker is one of the presentation components from Oracle Insurance. It lets you easily add and modify data in the other Oracle Insurance applications through a rich, web 2.0 graphical interface.

iDocumaker uses much of the Java™ 2 Platform, Enterprise Edition (J2EE) framework for powerful features such as reliability, strong security, extensibility, standards based, maintainability and scalability.

Using these, it therefore needs to be installed under a J2EE-compliant web container. This document describes the basic installation and configuration steps necessary to install the iDocumaker product under the approved web containers. This document also tell you how to find and install the various third-party libraries iDocumaker uses.

NOTE: This document is designed for an initial installation of iDocumaker. If you are updating iDocumaker, check with your system administrator for details on how iDocumaker was initially set up and customized.

Before you begin you should be familiar with the security settings for your system and how to modify them.

You will find information on these topics in this chapter:

- [Requirements on page 2](#)
- [Updating Third-Party Libraries on page 4](#)
- [Installing iDocumaker on page 10](#)
- [OpenLDAP Security Settings on page 34](#)

REQUIREMENTS

Your computer must have certain software and hardware components to run iDocumaker. This table outlines those requirements:

Basic requirements

	Requirements
Operating system	Windows XP, Windows 2003 Server, Linux, AIX, and Sun Solaris
Java Runtime Environment (JRE)	version 1.5 or higher
Physical memory/JVM heap memory*	1024MB/256MB RAM
Hard disk**	100 MB free
Other components	Keyboard and mouse or compatible pointing device
Monitor	Color SVGA monitor

* Additional memory will improve system performance.

** The amount of hard disk space you will need depends mainly on the volume of data you must process.

NOTE: To test your iDocumaker implementation, you need a Documaker Studio master resource library (MRL).

Client requirements

In addition to the basic requirements, each client should have the following:

- WIP Edit, version 11.3, patch 05 or higher
- Microsoft Windows XP Professional or later
- Adobe Acrobat Reader 7.0 or higher
- Microsoft Internet Explorer 7.0 or higher with these Internet security options enabled:
 - Run ActiveX controls and plug-ins
 - Script ActiveX controls safe for scripting
 - Allow cookies that are stored on your computer
 - Allow per-session cookies (not stored)
 - Active scripting

Server requirements

In addition to the basic and client requirements, the computer you will use as a server should be configured with the following:

- Apache Tomcat, or IBM WebSphere MQ (formerly MQSeries)
- A database such as Oracle version 8i or higher, Microsoft SQL 2000 or higher, IBM DB2 version 8.1 or higher, Sun MySQL version 4.3 or higher, or other JDBC version 2.0-supported databases
- Application servers that support the J2EE 1.4 specification. We test on Tomcat version 5.5 and WebSphere MQ version 6.1.

Application server requirements

In addition to the basic requirements, for the application server, you should have:

- Windows Server (Tomcat plug-in), Tomcat version 5.5 or higher, or WebSphere MQ version 6.1
- One of these message buses:
 - WebSphere MQ
 - JMS
 - ActiveMQ
 - MSMQ
 - HTTP
- A database such as Oracle version 8i or higher, Microsoft SQL 2000 or higher, IBM DB2 version 8.1 or higher, Sun MySQL version 4.3 or higher, or other JDBC version 2.0-supported databases
- DocuSign version 2.2 or higher

NOTE: We test iDocumaker version 3.2 implementations on WebSphere Application Server (WAS) version 6.1.x and Tomcat 6.x Application Server.

Using the right Java environment

This table shows various application servers we have tested with and the Java version you should use with those web servers and with iDocumaker.

For	Use
Tomcat 5.5 (or higher)	Tomcat using Java 1.5 (iDocumaker using the Servlet Specification 2.4 or higher)
WebSphere Application Server 6.1.x	WebSphere Application Server using Java 1.5 (iDocumaker using the J2EE standard 1.4)

Additional recommendations

We also recommend these additional products for your iDocumaker implementation:

Product	Description
Documaker	Use for rules publishing.

UPDATING THIRD-PARTY LIBRARIES

Due to licensing restrictions Oracle Insurance does not distribute the third-party libraries needed for iDocumaker. These libraries include:

- HotSAX - An open source SAX2 parser for HTML, XHTML, and XML files.
- Jericho HTML Parser - An open source library that lets you analyze and manipulate HTML documents.
- ShiftOne Cache - An open source library that applies object caching policies.

This topic will help you find, download, and patch these libraries into your iDocumaker war or ear file.

Before you begin, make sure you have...

- An iDocumaker 3.2 war or ear file
- The iDocumaker patch script or a compression utility such as WinZip® or WinRAR. For more information on the patch script, see [Using the Patch Script on page 7](#).

The patch script requires the Java Runtime Environment (JRE) version 1.4 or higher. The patch script is designed for Windows but anyone familiar with Apache Ant can open the script and use it on any platform Apache Ant is supported.

NOTE: If WinZip® has a problem with the format of the file, use WinRAR or another compression utility.

You can patch third-party libraries two ways:

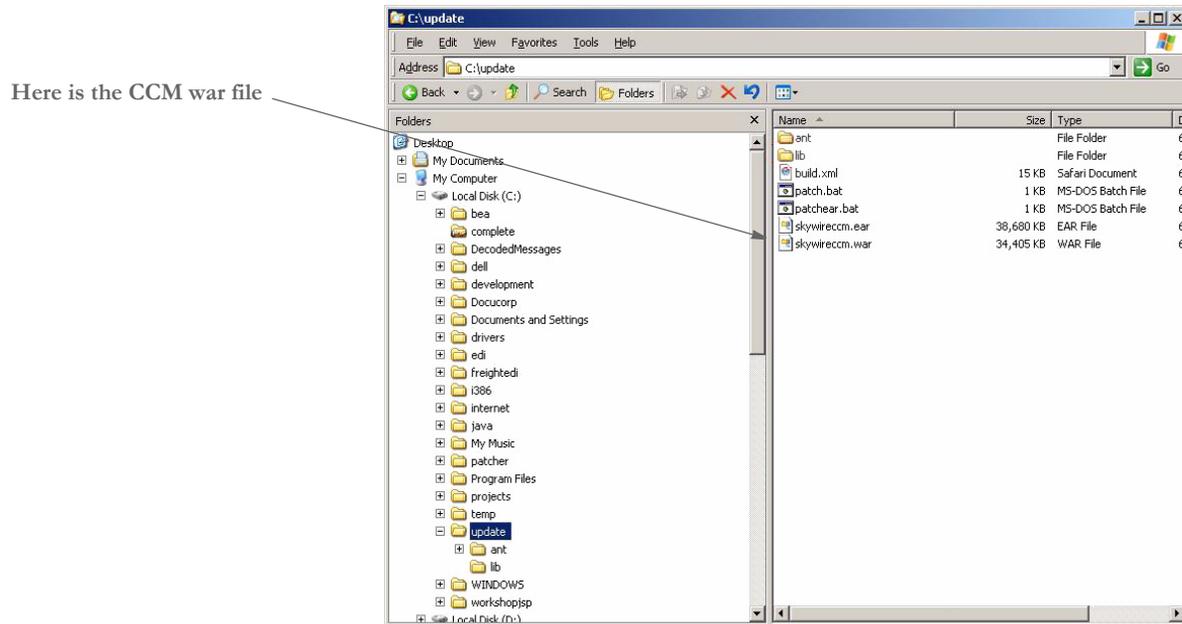
- [Using the Script on page 5](#)
- [Without a Script on page 8](#)

Instructions for each method follow.

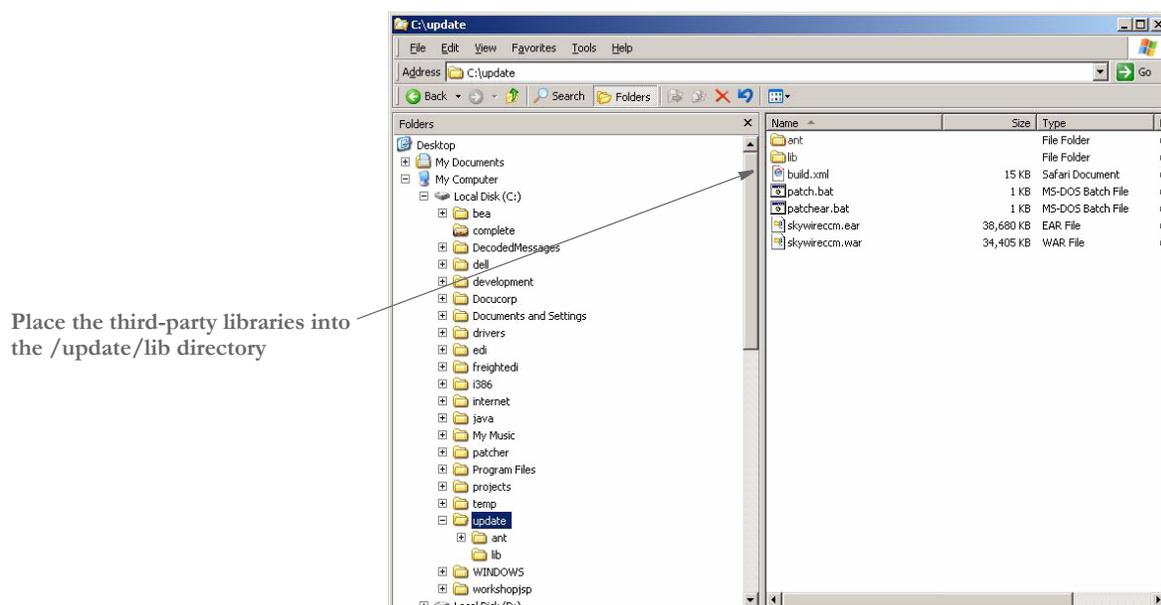
USING THE SCRIPT

Follow these instructions to use the patch script to update the various third-party libraries iDocumaker needs. For more information on the patch script, see [Using the Patch Script on page 7](#).

- 1 Unzip the update.zip to a directory on the host machine. It will create an \update subdirectory. Then copy the CCM war or ear file into this directory.



- 2 Download the following third-party libraries. Place these libraries in the update\lib directory.



HotSAX

Download HotSAX, version 1.2c from this site:

http://sourceforge.net/project/showfiles.php?group_id=29085&package_id=21409&release_id=87917

Unzip it into a temporary directory. Then copy the following .jar file from the temporary directory into the update\WEB-INF\lib directory:

..\HotSAX-0.1.2c\hotsax.jar

Jericho HTML Parser

Download the Jericho HTML Parser version 1.2 from this site:

http://downloads.sourceforge.net/jerichohtml/jericho-html-1.2.zip?modtime=1087344000&big_mirror=0

Unzip it into a temporary directory. Then copy the following .jar file from the temporary directory into the update\WEB-INF\lib directory.

..\jericho-html-1.2\Jericho-html-1.2.jar

ShiftOne Cache

Download ShiftOne Cache version 1.2 from this site:

http://downloads.sourceforge.net/jocache/shiftone-cache-1.2.zip?modtime=1064880000&big_mirror=0

Unzip it into a temporary directory. Then copy the following .jar file from the temporary directory into the WEB-INF\lib directory of your exploded WAR directory.

..\shiftone-cache-1.2\dist\shiftone-cache.jar

3 The next step varies, depending on if you are patching a war or ear file:

If you are patching Double-click this file:

A war file	patch.bat
An ear file	patchear.bat

NOTE: If you have any problems, try the steps in [Without a Script on page 8](#).

Using the Patch Script

If you renamed your war or ear file and within the ear or war file you want the jar libraries loaded from a different location, you can do this by passing parameters via the patch script. Here is an example:

```
patch -Dwar testwar.war -Dlib.dir lib2
```

Parameter	Description
-Dwar warname or -Dear earname	The name and/or path/name of the war file or war within the ear file. The default is skywireccm.war. The name and/or path/name of the ear file to use. The default is skywireccm.ear.
-Dlib.dir lib directory	The path, relative or absolute, to the directory that contains the third-party jar files needed by iDocumaker.

This example patches the testwar.war file with the third-party libraries found in the relative directory named \lib2. The example output is shown below.

```
C:\WINDOWS\system32\cmd.exe
Volume Serial Number is 6849-0237

Directory of C:\update

06/26/2008  05:10 PM  <DIR>          .
06/26/2008  05:10 PM  <DIR>          ..
06/26/2008  09:33 AM  <DIR>          ant
06/26/2008  02:15 PM             14,515 build.xml
06/25/2008  01:56 PM  <DIR>          lib1
06/26/2008  05:04 PM  <DIR>          lib2
06/26/2008  05:08 PM             77 patch.bat
06/26/2008  05:03 PM             41 patchear.bat
06/26/2008  01:34 PM      39,608,061 skywireccm.ear
06/26/2008  01:36 PM      35,230,004 skywireccm.war
06/26/2008  01:36 PM      35,230,004 testwar.war
               6 File(s)      110,082,702 bytes
               5 Dir(s)      8,051,613,696 bytes free

C:\update>patch -Dwar testwar.war -Dlib.dir lib2
-Dwar
testwar.war
-Dlib.dir
lib2
Buildfile: build.xml

update:
[mkdir] Created dir: C:\update\build
[unzip] Expanding: C:\update\testwar.war into C:\update\build
[copy] Copying 3 files to C:\update\build\WEB-INF\lib
[delete] Deleting: C:\update\testwar.war
[jar] Building jar: C:\update\testwar.war
[delete] Deleting directory C:\update\build

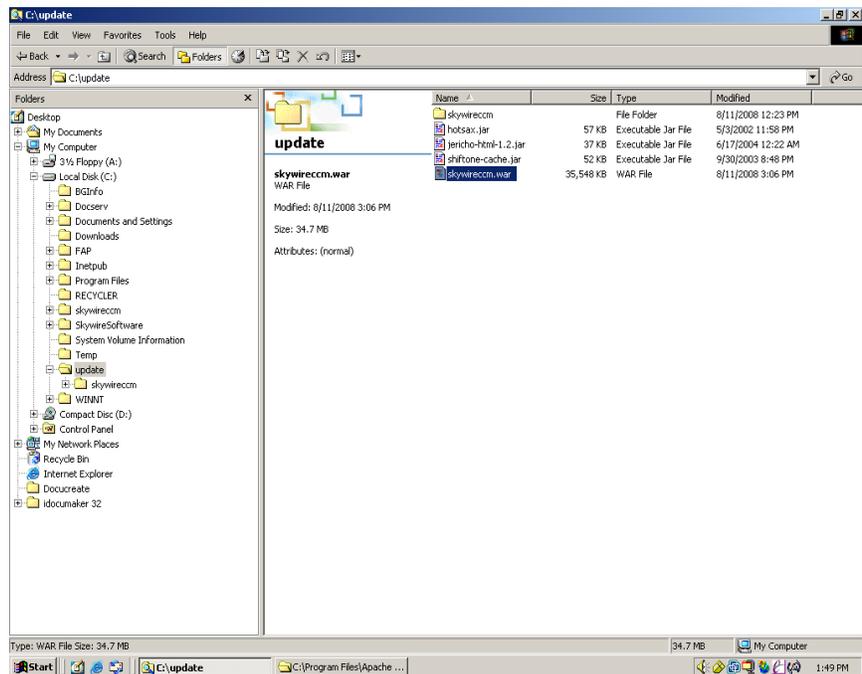
BUILD SUCCESSFUL
Total time: 36 seconds
C:\update>
```

You can see that there is no lib directory, just \lib1 and \lib2 so there is no possibility of confusion. You can see it using testwar.war in the output.

WITHOUT A SCRIPT

Follow these steps to get the third-party libraries without using the script:

- 1 Create a directory named `\update`.
- 2 Unzip the deployable war or ear file into this directory.



If you are using an ear file, you will see a war file and a META-INF directory. Create a war directory and unzip into that. This is now your exploded WAR directory.

- 3 Download the following third-party libraries:

HotSAX

Download HotSAX, version 1.2c from this site:

http://sourceforge.net/project/showfiles.php?group_id=29085&package_id=21409&release_id=87917

Unzip it into a temporary directory. Then copy the following .jar file from the temporary directory into the `update\WEB-INF\lib` directory:

```
..\HotSAX-0.1.2c\hotsax.jar
```

Jericho HTML Parser

Download the Jericho HTML Parser, version 1.2 from this site:

http://downloads.sourceforge.net/jerichohtml/jericho-html-1.2.zip?modtime=1087344000&big_mirror=0

Unzip it into a temporary directory. Then copy the following .jar file from the temporary directory into the `update\WEB-INF\lib` directory.

```
..\jericho-html-1.2\Jericho-html-1.2.jar
```

ShiftOne Cache

Download ShiftOne Cache, version 1.2 from this site:

http://downloads.sourceforge.net/jocache/shiftone-cache-1.2.zip?modtime=1064880000&big_mirror=0

Unzip it into a temporary directory. Then copy the following .jar file from the temporary directory into the WEB-INF\lib directory of your exploded WAR directory.

```
..\shiftone-cache-1.2\dist\shiftone-cache.jar
```

- 4** The next step varies, depending on if you are patching a war or ear file:

If you are using	Then
A war file	Use a compression utility to zip/jar/tar up the WAR directory. Make sure the path names stay intact relative to the root of the exploded war directory without including the exploded war directory name. This file should be named <i>skywireccm.war</i> .
An ear file	Delete the exploded WAR directory but keep the new skywireccm.war and zip/jar/tar it up with the META-INF directory into a new ear file named as it was; <i>skywireccm.ear</i> .

INSTALLING IDOCUMAKER

This document describes using different web application servers and/or security configurations. It also discusses configuring iDocumaker security for LDAP servers, but only on the certified web application servers.

For all other containers, or for more information on the certified web application containers (or server), refer to your container's documentation.

This document discusses these main functions:

- Deployment of the iDocumaker application on approved web application containers.
- Configuring the web application container for your LDAP server.

This document does not discuss...

- Any other aspect of your application server's configuration, including alternative security configurations. iDocumaker uses the J2EE security framework. The administrator should be able to use the application server's configuration to hook into the necessary security framework. iDocumaker supports LDAP on the approved application servers.
- Application servers beyond those listed in [Requirements on page 2](#). Administrators of a J2EE web application container should be able to take what is given here and apply it to their servers.
- Hardware requirements, their configurations, or clustering.

These installations are covered in this topic:

- [Installing under Tomcat 5.5.2x on page 11](#)
- [Installing under Tomcat 6.x on page 12](#)
- [Installing under WebSphere 6.1 on page 13](#)

INSTALLING UNDER TOMCAT 5.5.2X

Security By default, Tomcat connects to a local LDAP server for its security configuration. The security configuration is built into the war file in the file under the META-INF/context.xml file.

Take the contents of this context.xml file, or the configuration given below, and edit the elements in it to point to the enterprise LDAP server you want to use. Then put it back into the deployment file. You can put it in the server.xml file (Tomcat's configuration file), but as of Tomcat 5, this is not recommended. Since this involves editing the deployable file, security should be done before deployment.

The context tells the application server, Tomcat, that it applies only to this web application.

```
<Context antiJARLocking="true" antiResourceLocking="true"
reloadable="true">

<Realm className="org.apache.catalina.realm.JNDIRealm" debug="99"
connectionName="uid=demo,ou=users,ou=docucorp,dc=example,dc=com"
connectionPassword="demo" connectionURL="ldap://localhost:389"
roleBase="ou=groups,ou=docucorp,dc=example,dc=com" roleName="cn"
roleSearch="(uniqueMember={0})" roleSubtree="true"
userSearch="(uid={0})" userPassword="userPassword"
userPattern="uid={0},ou=users,ou=docucorp,dc=example,dc=com" />

</Context>
```

For more information, see the Tomcat JNDI Realm documentation:

<http://tomcat.apache.org/tomcat-5.5-doc/realm-howto.html#JNDIRealm>

Deployment Follow these steps to deploy iDocumaker under Tomcat 5.5:

- 1** Download the core Tomcat web application server from this site:
<http://tomcat.apache.org/download-55.cgi>
- 2** Install it as a Windows application or unzip it into a directory. It is better to run it so you can see the output and determine if the deployment was successful.
- 3** Start Tomcat using the Administrator Services, Start menu or by running the startup.bat file.
- 4** Copy the skywireccm.war file into the *tomcat/webapps* directory where *tomcat* is the Tomcat installation directory. The system shows Tomcat deploying the war file.
- 5** Test the deployment of the application by going to the following site:

<http://localhost:8080/skywireccm>

This should show the log in window.

INSTALLING UNDER TOMCAT 6.X

Security By default, the Tomcat application connects to a local LDAP server for its security configuration. The security configuration is built into the war file in the file under the META-INF/context.xml file.

Take the contents of this context.xml file, or the configuration given below, and edit the elements in it to point to the enterprise LDAP server you want to use. Then put it back into the deployment file. You can put it in the server.xml file (Tomcat's configuration file), but as of Tomcat 5 this is not recommended. Since this involves editing the deployable file, security should be done before deployment.

The context tells the application server, Tomcat, that it applies only to this web application.

```
<Context antiJARLocking="true" antiResourceLocking="true"
reloadable="true">

<Realm className="org.apache.catalina.realm.JNDIRealm" debug="99"
connectionName="uid=demo,ou=users,ou=docucorp,dc=example,dc=com"
connectionPassword="demo" connectionURL="ldap://localhost:389"
roleBase="ou=groups,ou=docucorp,dc=example,dc=com" roleName="cn"
roleSearch="(uniqueMember={0})" roleSubtree="true"
userSearch="(uid={0})" userPassword="userPassword"
userPattern="uid={0},ou=users,ou=docucorp,dc=example,dc=com" />

</Context>
```

For further explanation see the Tomcat JNDI Realm documentation.

<http://tomcat.apache.org/tomcat-6.0-doc/realm-howto.html#JNDIRealm>

Deployment Follow these steps to deploy iDocumaker under Tomcat 6.x:

- 1 Download the core Tomcat web application server from this site:
<http://tomcat.apache.org/download-60.cgi>
- 2 Install it as a Windows application or unzip it into a directory. It is better to run it so you can see the output and determine if the deployment was successful.
- 3 Start Tomcat using the Administrator Services, Start menu or by running the tomcat.exe file.
- 4 Copy the skywireccm.war file into the *tomcat/webapps* directory where *tomcat* is the Tomcat installation directory. The system shows Tomcat deploying the war file.
- 5 Test the deployment of the application by going to the following site:

<http://localhost:8080/skywireccm>

This should show the log in window.

INSTALLING UNDER WEBSHERE 6.1

Installing iDocumaker under WebSphere 6.1 consists of the following tasks:

- [Setting Up Security on page 14](#) (optional)
- [Setting Up an IBM HTTP Web Server on page 17](#) (optional)
- [Deploying the EAR File on page 21](#) (required)
- [Managing the Web Module on page 28](#) (required)
- [Setting Up the WAS Plug-in on page 30](#) (required)
- [Testing the iDocumaker Web Application on page 32](#) (recommended)

For WebSphere 6.1, you should set up iDocumaker as a proxy service behind a web server. This topic shows, as an example, a basic IBM HTTP server configuration for a proxy server. You should have the IBM HTTP server with the plug-in installed.

Before you begin, make sure the...

- Server is running
- Administration console is available

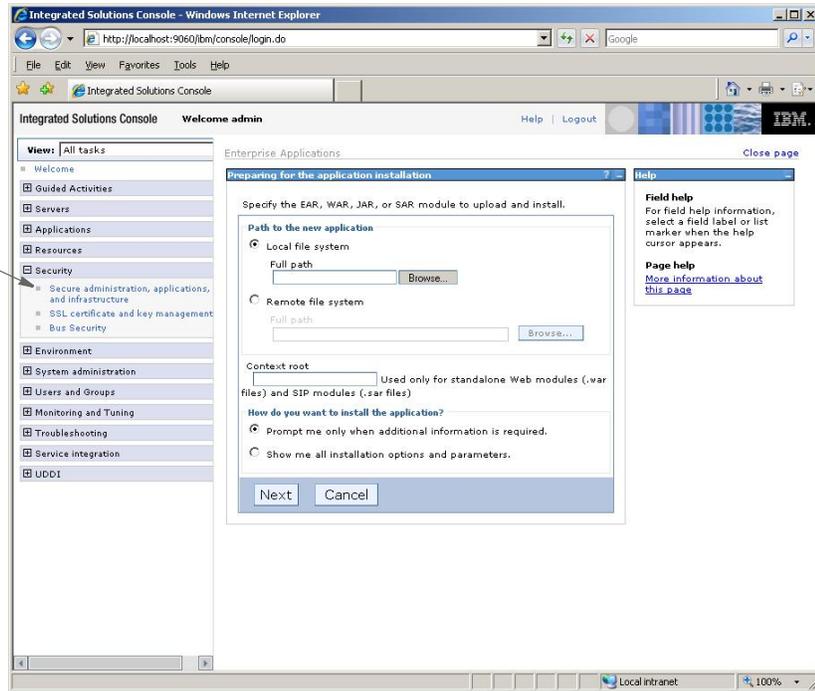
You should also have a working knowledge of WebSphere 6.1. For more information on WebSphere, contact your WebSphere software vendor.

Setting Up Security

Follow these steps to set up security:

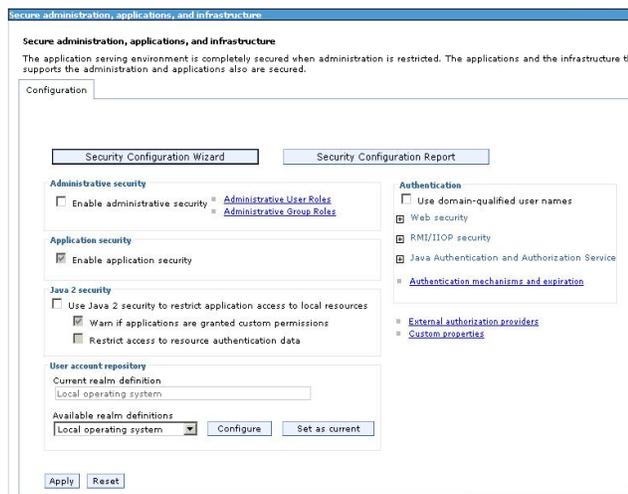
- 1 From the main screen expand the Security link on the left side menu. Click the Secure administration, applications, and infrastructure option.

Click this option.



The main Security window appears.

- 2 Choose LDAP and click the Configure button under User account repository.



You now see all the basic options for LDAP.

3 Enter your organization's LDAP information and click Apply.

General Properties

* Primary administrative user name
uid=demo,ou=users,ou=doc

Server user identity
 Automatically generated server identity
 Server identity that is stored in the repository
 Server user ID or administrative user on a Version 6.0.x node
 uid=demo,ou=users,ou=docucorp,dc=example,dc=com
 Password: ****

Type of LDAP server
Custom

* Host
localhost

Port
389

Base distinguished name (DN)
dcucorp,dc=example,dc=com

Bind distinguished name (DN)
dcucorp,dc=example,dc=com

Bind password

Search timeout
30 seconds

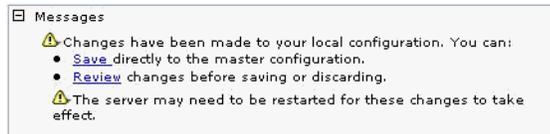
Reuse connection

Ignore case for authorization

SSL Settings
 SSL enabled
 Centrally managed
 Manage endpoint security configurations
 Use specific SSL alias
 NodeDefaultSSLSettings SSL configurations

Apply OK Reset Cancel

The system displays this message to tell you that you have changed the configuration.



Click Save to save the changes.

4 Enter any advanced mappings. Click Apply. Then click Save.

Secure administration, applications, and infrastructure

Secure administration, applications, and infrastructure > Standalone LDAP registry > Advanced Lightweight Directory Access Protocol (LDAP) user registry settings

Specify advanced Lightweight Directory Access Protocol (LDAP) user registry settings when users and groups reside in an external LDAP directory. When security is enabled and any of these advanced settings are changed, go to the Security > Secure administration, applications, and infrastructure panel. Click Apply or OK to validate the changes.

Configuration

General Properties

User filter
[(uid=%v)](objectClass=doc)

Group Filter
[(cn=%v)](objectClass=group)

User ID map
*:uid

Group ID map
*:cn

Group member ID map
groupOfUniqueNames:unique

Perform a nested group search

Certificate map mode
EXACT_DN

Certificate filter

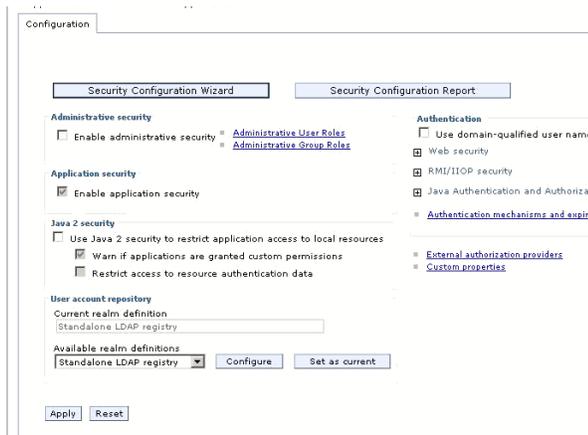
Apply OK Reset Cancel

- Click the Test Connection button. You should see a message similar to the one shown here:



Click Ok.

- Under the User account repository option, choose the newly-created LDAP configuration and choose Set as current.



- Check the Enable Administrative Security option. You will have to reboot the server.

If you are using our default OpenLDAP implementation you can log into the WebSphere console using this user ID and password:

For	Enter
User ID	demo
Password	demo

For a complete list of security settings for the default OpenLDAP implementation, see [OpenLDAP Security Settings on page 34](#).

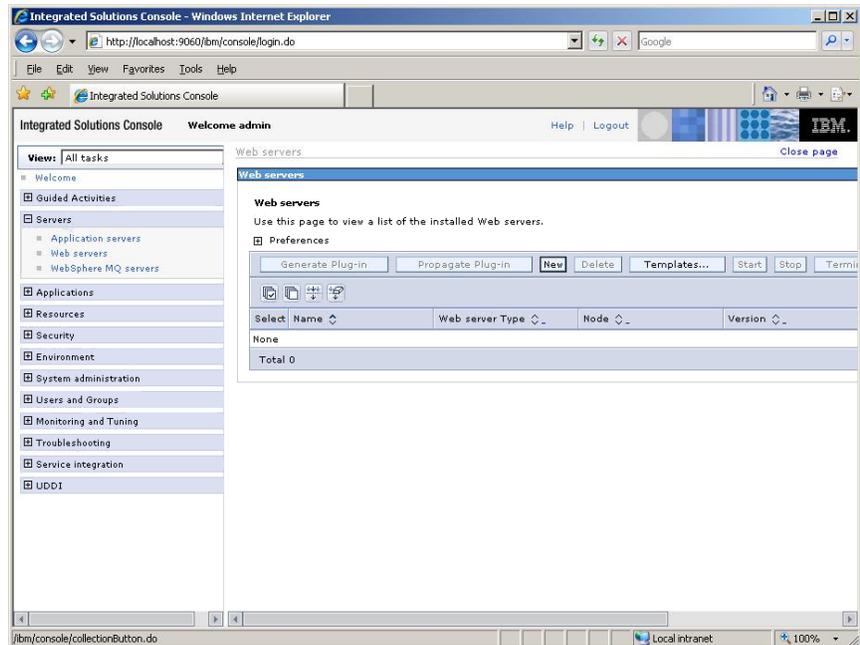
Setting Up an IBM HTTP Web Server

Here are the steps you need to follow to configure a web proxy server.

NOTE: If you use an existing web server to serve the static content, you can skip this topic. For performance reasons, the IBM HTTP server (IHS) is used to serve iDocumaker's static content.

Before you begin...

- Install the IBM HTTP server.
 - Make sure the IBM HTTP server is running as a service.
- 1 Click Web Server from the Servers link on the left most menu. You should see a screen like the following. Click New.



- 2 You will see the following window. Enter the appropriate information.

The screenshot shows a window titled "Create new Web server definition". It contains a sidebar with four steps: Step 1 (highlighted), Step 2, Step 3, and Step 4. The main area is titled "Specify the Web server name, type, host name and platform." and contains the following fields:

- * Server name:
- * Type:
- * Host name:
- * Platform:

At the bottom, there are "Next" and "Cancel" buttons.

Click Next

- 3 Choose the default template.

The screenshot shows the same window, now at Step 2: "Select a Web server template". The sidebar highlights Step 2. The main area is titled "Select a Web server template" and contains the following table:

Select the template that corresponds to the server that you want to create.

Select	Template Name	Type	Description
<input checked="" type="radio"/>	IHS	System	The IHS Web Server Template

At the bottom, there are "Previous", "Next", and "Cancel" buttons.

Then click Next.

- 4 Enter your web server's properties. Keep in mind where you have it installed, the HTTP administration server's user name and password (if applicable), and so on. Make sure the path to the installed HTTP server and the plug-in location are properly defined.

Create new Web server definition

Use this page to create a new Web server.

Step 1: Specify the Web server name, type, host name and platform.
 Step 2: Select a Web server template
 → Step 3: Enter the properties for the new Web server
 Step 4: Confirm new Web server

Enter the properties for the new Web server

Enter the Web server properties.

* Port: 80
 Web server installation location: D:\IBM\HTTPServer
 * Service name: IBMHTTPServer6.1
 * Plug-in installation location: D:\IBM\HTTPServer\Plugins
 Application mapping to the Web server: All

Enter the IBM Administration Server properties.

* Port: 8008
 * Username: admin
 * Password: *****
 * Confirm password: *****
 Use SSL

Previous Next Cancel

Click Next when you are finished.

- 5 Review your changes and click Finish when you are happy with them.

Create new Web server definition

Use this page to create a new Web server.

Step 1: Specify the Web server name, type, host name and platform.
 Step 2: Select a Web server template
 Step 3: Enter the properties for the new Web server
 → Step 4: Confirm new Web server

Confirm new Web server

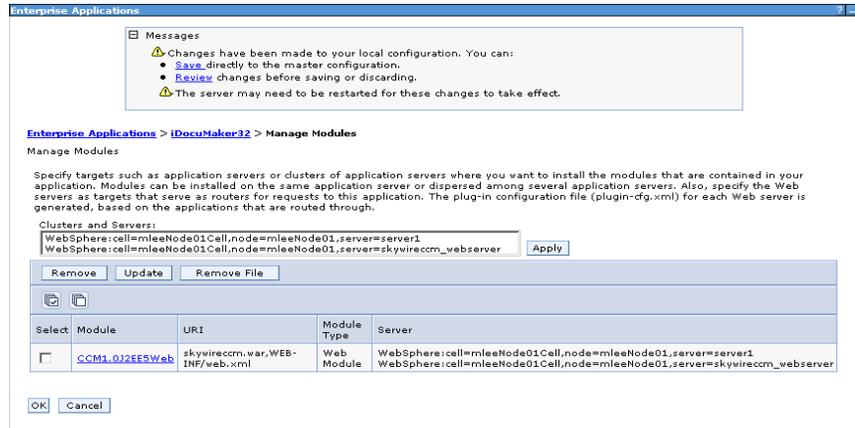
The following is a summary of your selections. Click the Finish button to complete the Web server creation. If there are settings you wish to change, click on Previous button to review the server settings.

Summary of actions:
 New Web server entry "skywireccm_webserver" will be created on hostname "localhost"
 Platform Type "Windows"
 Web server install root "D:\IBM\HTTPServer"
 Plug-in Install

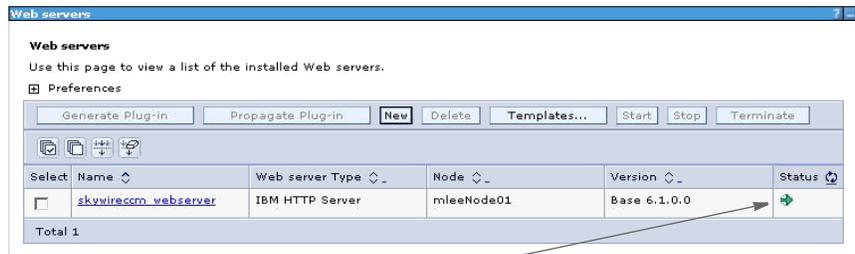
Previous Finish Cancel

The Please Wait icon appears.

6 Click the Save link to save the new configuration.



You should now see your new web server with a status of running (green arrow).



This indicates the web server is running.

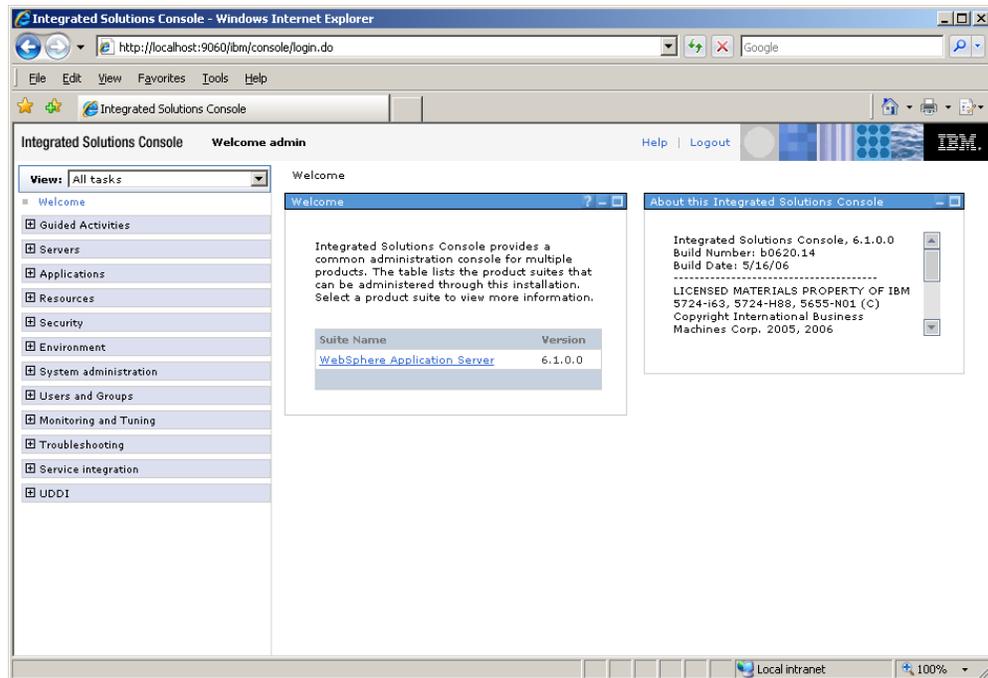
Deploying the EAR File

Make sure WebSphere is installed and you have an understanding of starting, stopping and configuring the server. In addition...

- There should already be a WebSphere server or cluster instance created for the application.
- The WebSphere instance should be running with the administration of that server available.

Follow these steps to deploy the EAR file:

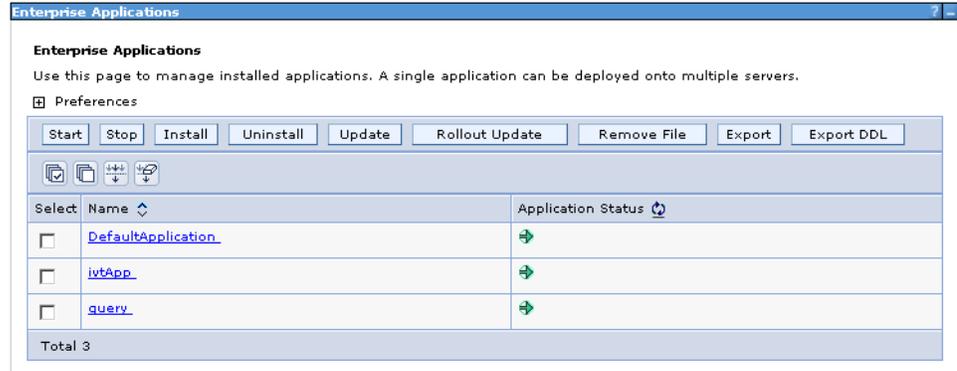
- 1 Log into the administration console. You should see a window similar to the following:



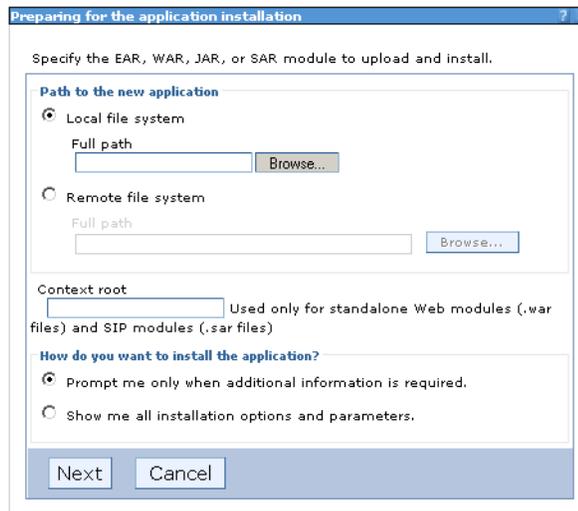
- 2 Click the Applications link on the left hand menu. You will now see these options:

- Enterprise Applications
- Install New Application

- Under Enterprise Applications it shows a list of installed applications. Skywireccm should not be on the list. You will return to this list.



- Click the Install New Application link. This window appears.



- From here, click Browse and locate the skywireccm.ear file. Then click Next. The Please Wait icon appears, which indicates the system is uploading and preparing the application.



- 6 Next is the Install Options window. You can accept the defaults and click Next.

The screenshot shows the 'Install New Application' dialog box with the following options:

- Precompile JavaServer Pages files
- Directory to install application:
- Distribute application
- Use Binary Configuration
- Deploy enterprise beans
- Application name:
- Create MBeans for resources
- Enable class reloading
- Reload interval in seconds:
- Deploy Web services
- Validate Input off/warn/fail:
- Process embedded configuration

File Permission

Allow all files to be read but not written to
 Allow executables to execute
 Allow HTML and image files to be read by everyone

Application Build ID:

- Allow dispatching includes to remote resources
- Allow servicing includes from remote resources

- 7 Now map the application to servers. Typically you just have to check the box and click Next.

NOTE: If you are not using container managed security, you can skip this step.

The screenshot shows the 'Install New Application' dialog box with the following options:

Map modules to servers

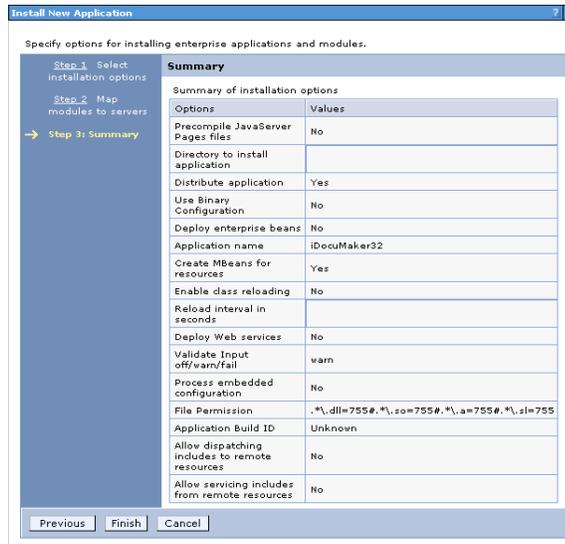
Specify targets such as application servers or clusters of application servers where you want to install the modules that are contained in your application. Modules can be installed on the same application server or dispersed among several application servers. Also, specify the Web servers as targets 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.

Clusters and Servers:

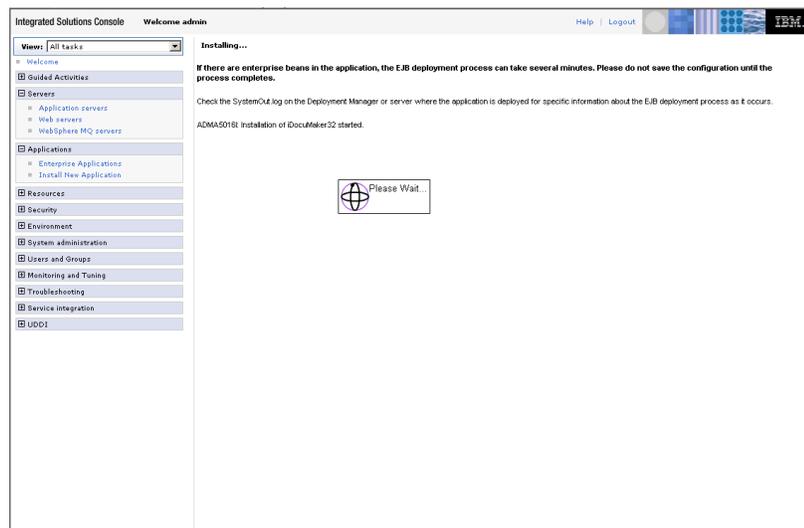
Select	Module	URI	Server
<input type="checkbox"/>	CCM1.0J2EE5Web	skywireccm.war,WEB-INF/web.xml	WebSphere:cell=mleeNode01Cell,node=mleeNode01,server=server1 WebSphere:cell=mleeNode01Cell,node=mleeNode01,server=skywireccm_webserver

When you finish, the Please Wait icon appears.

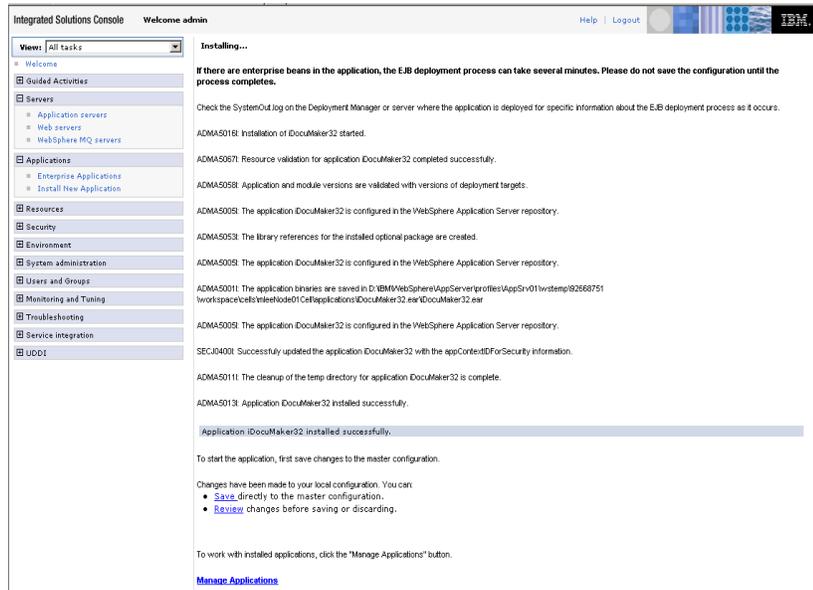
- 8 The Summary window appears and provides information on the entire application's deployment. Click Finish.



The installation window appears with the Please Wait icon.



9 When the installation finishes you should see a window similar to the following.



Click the Save link to save the master configuration.

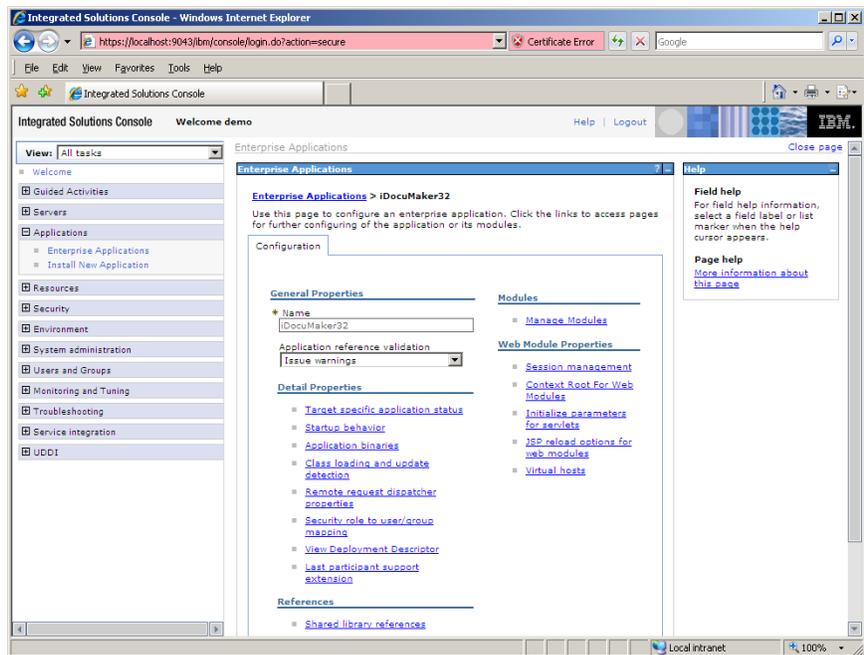
Mapping Security Roles

Follow these steps to map security roles to users or groups:

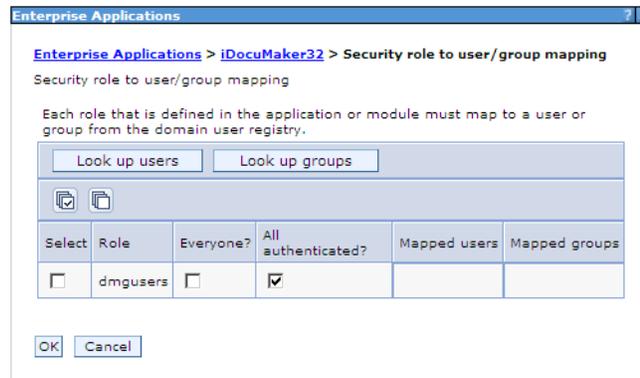
NOTE: If you have the secure version of the application, you need to map the application roles to the your security system's roles.

If you have the insecure version, ignore this step.

- 1 Click the Enterprise Applications link on the main menu to the left and choose the newly-installed iDocumaker32 application. You should see the following screen.

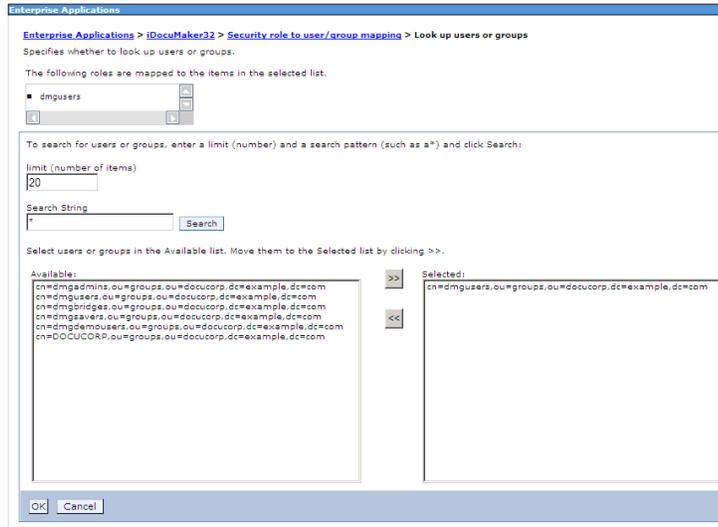


- 2 Click the Security Role to User/Group mapping link. This page appears:



- 3 Click the Select and All Authenticated boxes and click the Look up groups button.

This page appears.



- 4 Accept all of the defaults and click the Search button. A list of the OpenLDAP roles appears in the Available columns.
- 5 Select *cn=dmgusers...* and click the >> button to move it into the Selected column. Click Ok and then click Ok again. Then click Save.

You will see the Please Wait icon.



When it is done you will see a message similar to this one:



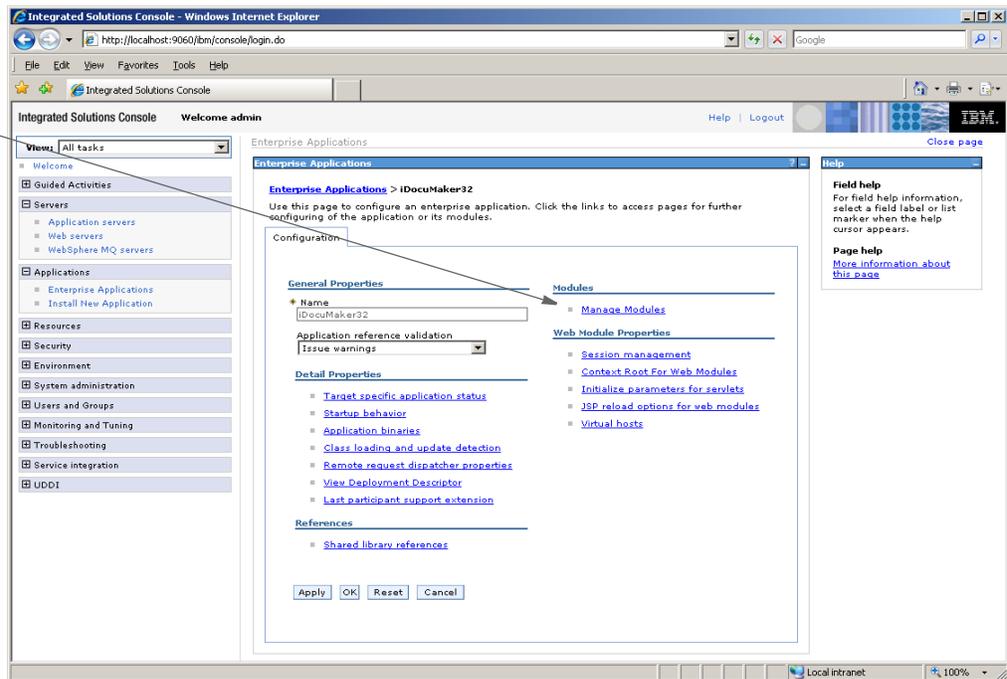
Managing the Web Module

First, make sure the plug-in is installed. It may be an optional check box as part of the HTTP server installation or can be installed separately.

NOTE: If you run into any problems, it could indicate a class loading issue.

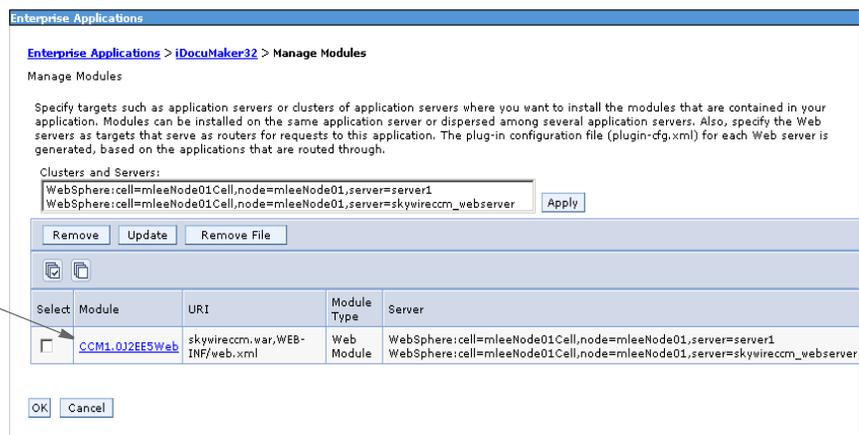
- 1 Select Manage Modules. Then click the iDocumaker32 application. You should see the following window.

Select the Manage Modules option.



- 2 After you select the Manage Modules option, this window appears:

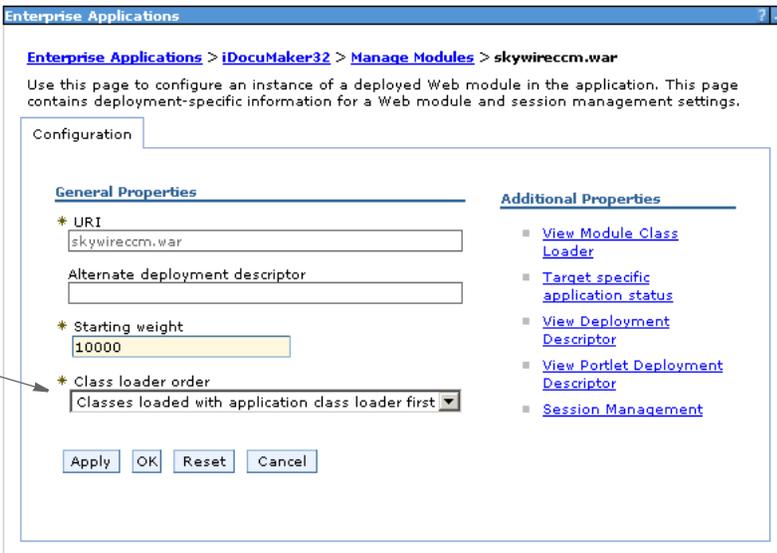
Click this link.



Click the CCM1.0J2EE5Web link.

- 3 For Class loader order, select the Classes loaded with application class loader first option.

Select the Classes loaded with application class loader first option.



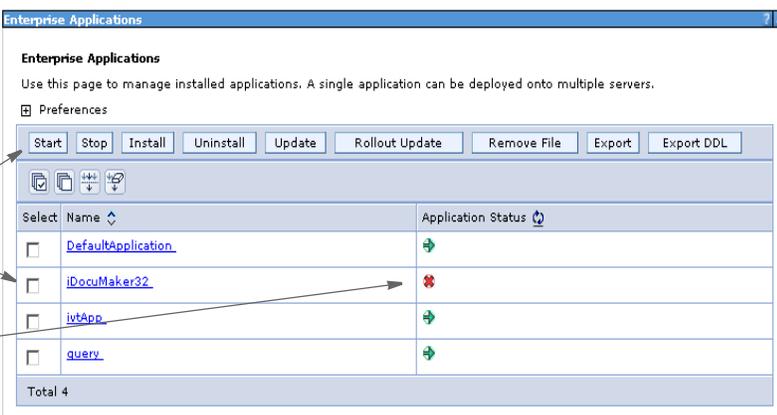
The screenshot shows the 'Enterprise Applications' window with the configuration page for 'skywireccm.war'. The 'Class loader order' dropdown menu is expanded, showing the selected option: 'Classes loaded with application class loader first'. Other visible fields include URI (skywireccm.war), Starting weight (10000), and Alternate deployment descriptor. The 'Additional Properties' section on the right includes links for View Module Class Loader, Target specific application status, View Deployment Descriptor, View Portlet Deployment Descriptor, and Session Management. Buttons for Apply, OK, Reset, and Cancel are at the bottom.

Click Ok.

- 4 Now save the configuration. After the configuration is saved, you return to the following window. Select iDocumaker32 and click Start.

Click here then click Start

This will change to a green arrow



The screenshot shows the 'Enterprise Applications' management page. A table lists installed applications with their status. The 'iDocumaker32' application is selected, and its status is currently 'Not Running' (indicated by a red X). The 'Start' button is highlighted. Other applications listed are DefaultApplication, ivtApp, and query, all with green arrows indicating they are running. The 'Total 4' is shown at the bottom of the table.

Select	Name	Application Status
<input type="checkbox"/>	DefaultApplication	
<input checked="" type="checkbox"/>	iDocumaker32	
<input type="checkbox"/>	ivtApp	
<input type="checkbox"/>	query	

The Application Status changes to a green arrow. This tells you the application is now running.

Setting Up the WAS Plug-in

Make sure the WebSphere Application Server (WAS) plug-in is installed. It may be an optional check box as part of the HTTP server installation or may be installed separately.

You can also find these instructions in the readme.txt file included in the iDocumaker distribution.

- 1 Open the httpd.conf file in the conf directory in the HTTP server installation directory and add the following lines.

```
Alias /skywireccm
"D:/IBM/WebSphere/AppServer/profiles/AppSrv01/installedApps/
mleeNode01Cell/iDocumaker32.ear/skywireccm.war"
<Directory "D:/IBM/WebSphere/AppServer/profiles/AppSrv01/
installedApps/mleeNode01Cell/iDocumaker32.ear/skywireccm.war">
AllowOverride None
Options None
</Directory>
LoadModule was_ap20_module
"C:\IBM\HTTPServer\Plugins\bin\mod_was_ap20_http.dll"
WebSpherePluginConfig
"C:\IBM\HTTPServer\Plugins\config\skywireccm_webserver\plugin-
cfg.xml"
```

Replace the path to the path to the deployed application on your WebSphere application server. Please note your environment may differ, so the directory setting may have to be changed to reflect your environment.

NOTE: The LoadModules line points to the plug-in DLL path. The WebSpherePluginConfig should point to the plugin-cfg.xml for the configured web server instance.

- 2 The plug-in is initially configured to use Tomcat instead of the IBM HTTP server. To use IBM HTTP server, you must edit the global.xml file. Open the global.xml file and change the port setting for the "PUTURL" SOURCE= from 8080 to 80.

Here is an example of how your section should look after you make the change:

```
- <REQTYPE DESCRIPTION="" NAME="i_PluginInit"
LOW.LEVEL.SERVICE="7006" SENDFILE="NONE" GETFILE="QUEUE">
- <INPUT SERVICENAME="" >
  <VAR NAME="USERID" SOURCE="" />
  <VAR NAME="CONFIG" SOURCE="" DATAXPath="DOCUMENT/SESSION/USERID" /
  >
  <VAR NAME="PRTTYPE" SOURCE="">DPW</VAR>
  <VAR NAME="PASSWORD" SOURCE="">DEM01</VAR>
  <VAR NAME="" SOURCE="WIPKEYS/RECNUM" DATAXPath="DOCUMENT/DOCSET/
WIPKEYS/RECNUM" />
  <VAR NAME="PUTURL" SOURCE="">localhost:80</VAR>
  <VAR NAME="SCRIPT" SOURCE="">skywireccm/jeds/ientrypluginsave</
VAR>
  <VAR NAME="GETSCRIPT" SOURCE="">skywireccm/getidsresource/
ientryplugingetresource</VAR>
  <VAR NAME="REFRESHSCRIPT" SOURCE="">skywireccm/jeds/debug</VAR>
  <VAR NAME="SAVE_REQTYPE" SOURCE="">i_PluginSave</VAR>
```

```
<VAR NAME="HTTPQUERYSTRING">2</VAR>
<VAR NAME="HTTPQUERYSTRING1.NAME">jsessionid</VAR>
<VAR NAME="HTTPQUERYSTRING1.VALUE" SOURCE="" DATAXPath="DOCUMENT/
SESSION/ID" />
<VAR NAME="HTTPQUERYSTRING2.NAME">config</VAR>
<VAR NAME="HTTPQUERYSTRING2.VALUE" SOURCE="" DATAXPath="DOCUMENT/
DOCSET/LIBRARY/CONFIG" />
<VAR NAME="HTTPCOOKIE">1</VAR>
<VAR NAME="HTTPCOOKIE1.NAME">JSESSIONID</VAR>
<VAR NAME="HTTPCOOKIE1.VALUE" SOURCE="" DATAXPath="DOCUMENT/
SESSION/ID" />
<VAR NAME="PRINTFILE" SOURCE="" />
</INPUT>
<OUTPUT />
</REQTYPE>
```

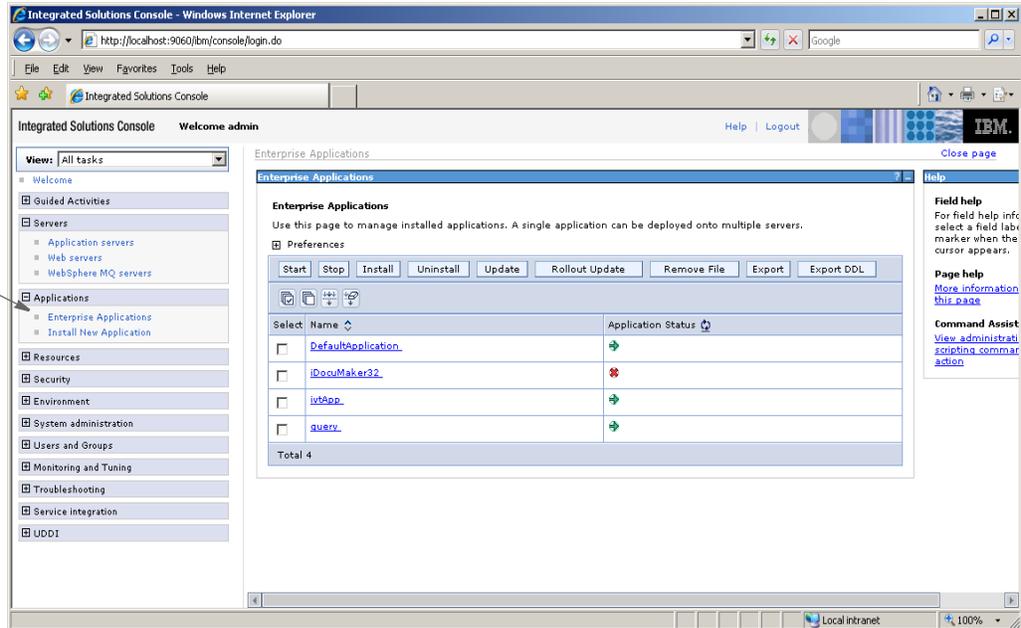
- 3 Restart the IBM HTTP server.

Testing the iDocumaker Web Application

Follow these steps to test your iDocumaker web application.

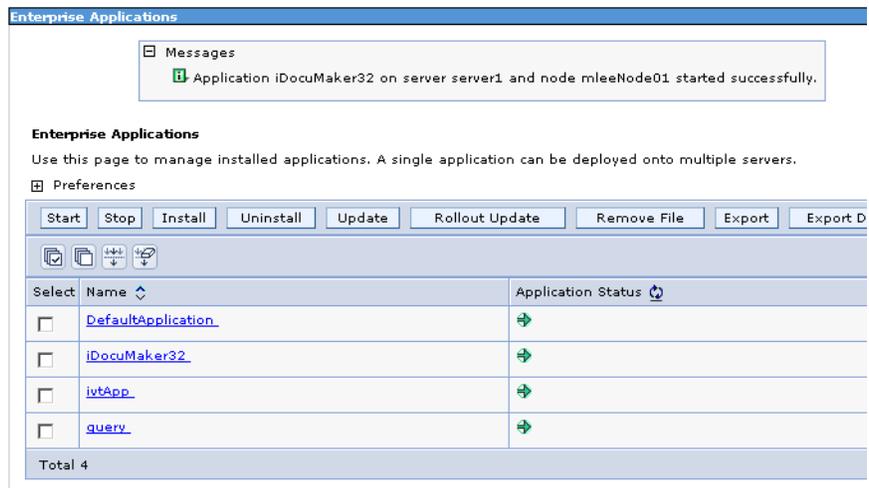
- 1 Click Enterprise Applications to the left and you should now see the newly-deployed application.

Click here



NOTE: If your iDocumaker web application does not appear, review the steps in [Mapping Security Roles on page 26](#) to make sure you have mapped everything correctly.

- 2 Under Enterprise Applications, click the box next to iDocuMaker32 and click Start. The Please Wait icon appears. When it finishes, you will see this message:



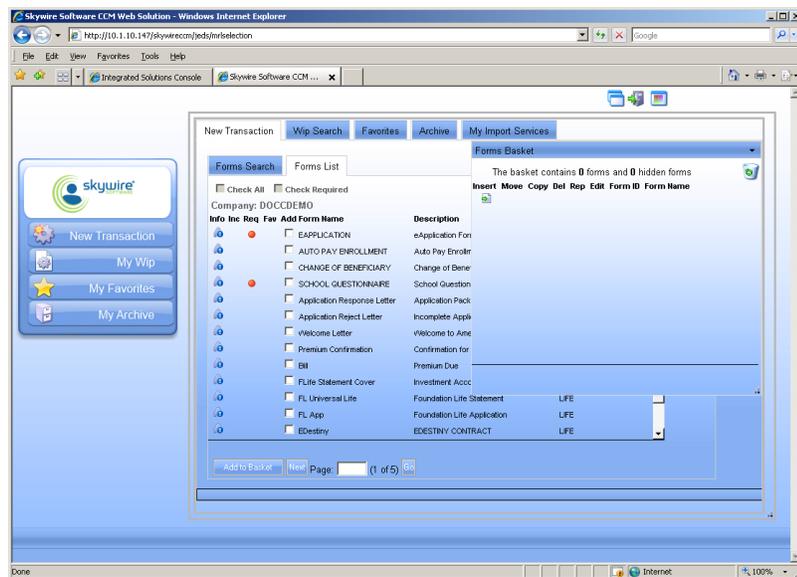
- 3 Test the deployment of the application by going to this site:

<http://localhost/skywireccm>

You should now see the login screen. If you have security configured, you will also see a password field.



- 4 After logging in, you will see the application.



This concludes the test of your deployment.

OPENLDAP SECURITY SETTINGS

The following settings are only to support the iDocumaker demo and should not be used as your main security settings. These settings are described here for reference purposes.

Under basic Standalone LDAP Registry, for the Server User Identity, choose the server identity stored in the repository. Under that, use the following settings:

Item	Setting
User ID	uid=demo,ou=users,ou=docucorp,dc=example,dc=com
Primary administrative user name:	uid=demo,ou=users,ou=docucorp,dc=example,dc=com
Password	demo
Type of LDAP server	Custom
Host	localhost
Port	389
Base distinguished name	ou=docucorp,dc=example,dc=com
Bind distinguished name	uid=demo,ou=users,ou=docucorp,dc=example,dc=com
Bind password	demo
Search timeout	120
Reuse connection	True
Ignore case for authorization	False

Keep the default SSL settings.

Here are the advanced LDAP user registry settings:

Item	Setting
User Filter	(&(uid=%v)(objectclass=docucorpAccount))
Group Filter	(&(cn=%v)((objectclass=groupOfUniqueNames)(objectclass=groupOfUniqueNames)))
Group member ID map	groupOfUniqueNames:uniqueMember
User ID map	*:uid
Group ID map	*:cn

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