

ASF 3.3 with IMS Document Connect for ASF

Installation on z/OS Server
Using WebSphere Application Server V5.1

Server-to-Host Connection using
WebSphere MQ

Edition: 1.1

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1 Prerequisites

1. WebSphere Application Server (WAS) V5.1 has been installed, is operational, and has been started

Note: The installation path is assumed to be
/local/WebSphere/V5R1M0

2. IBM HTTP Server (Version 1.3.26, or later) has been installed, is operational, and has been started

Note: The installation path is assumed to be
/etc

3. WebSphere MQ has been installed and the connections to the host (IMS) are available. This means that the input and output queue are available and the input queue is connected to IMS via the storage class.

Note: The MQ installation path is assumed to be
/usr/lpp/mqm/V5R3M1

4. Document Connect for ASF (DC4ASF) has been installed in the following directory:

path_prefix/**usr/lpp/fsn/V3R3M0W5**

where path_prefix is assumed to be null

5. The following PTFs are required:

<u>PTF #</u>	<u>FMID</u>	<u>Rel.</u>
UQ93059	HSF1300	300
UQ93246	JSF1310	310
UQ93247	JSF1311	311
UQ93248	JSF1312	312
UQ93249	JSF1313	313
UQ93257	JSF1314	314
UQ93263	JSF1315	315
UQ93264	JSF1317	317
UQ93267	JSF1318	318
UQ93268	JSF1319	319

2 Name Space Bindings

Two name space bindings must be created. To do this, open the WebSphere Administrative Console:

Open [Environment](#) > [Naming](#) > [Name Space Bindings](#)

Note: Ensure you are in the Server scope.

2.1 Define Name Space Binding for DC4ASFINST

- a) Select **New** to create a new Binding
- b) Choose type **String** for the binding and select **Next**
- c) Enter
 - the Binding Identifier
(for example DC4ASFINST)
 - Name in Name Space
(for example resources/asf/dc4asfinst)
 - and the path to your ASF installation directory
(/usr/lpp/fsn/V3R3M0W5)
- d) Select **Next** to go to the Summary Panel
- e) In the Summary Panel select **Finish** to complete the Name Space Binding.

The screenshot displays the WebSphere Administrative Console interface. The main content area is titled "New Name Space Binding" and contains a wizard for configuring a new name space binding. The wizard is currently at "Step 2: Specify basic properties".

Property	Value	Description
Binding Type	String	The type of binding configured. Possible choices are String, EJB, CORBA, and Indirect.
Binding Identifier	DC4ASFINST	The name given to uniquely identify this configured binding.
Name in Name Space	/asf/dc4asfinst	The name used for this binding in the name space. Simple or compound name relative to portion of the name space where this binding is configured.
String Value	/usr/lpp/fsn/V3R3M0W5	The string to be bound into the name space.

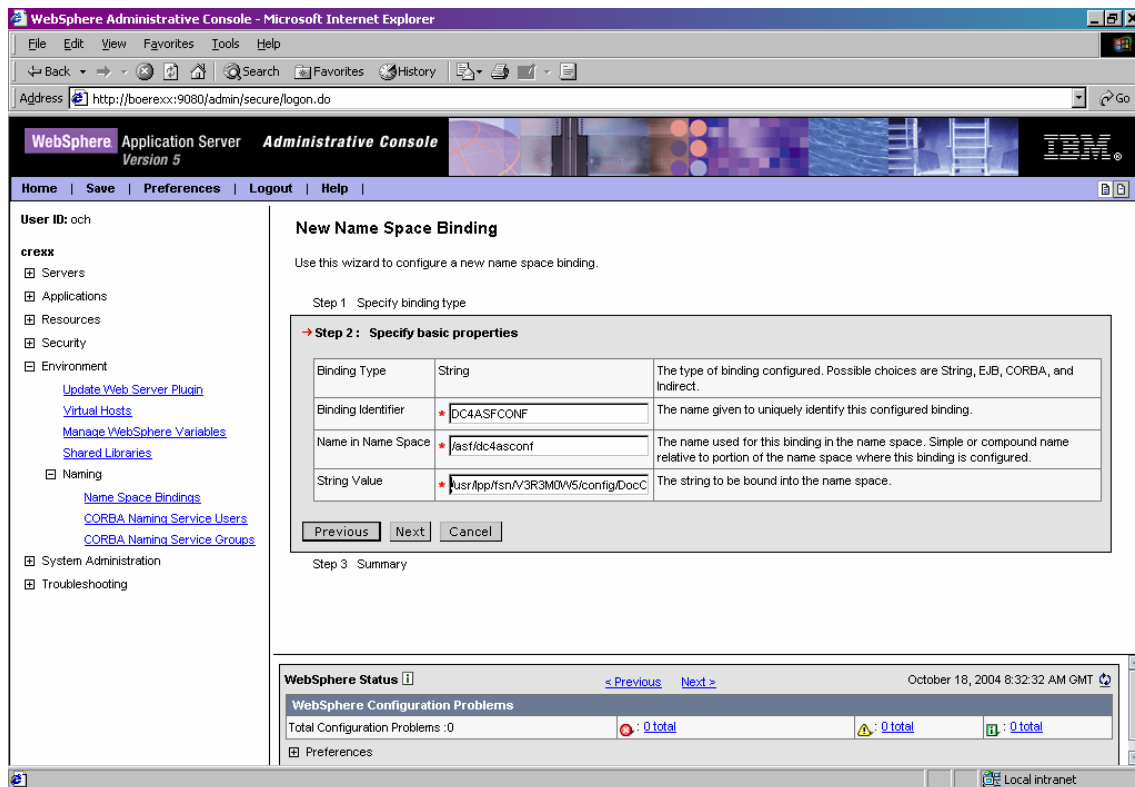
Below the table are buttons for "Previous", "Next", and "Cancel".

Below the table is "Step 3 Summary".

At the bottom of the console, there is a "WebSphere Status" section showing "WebSphere Configuration Problems" with a total of 0 configuration problems. The status bar also shows the date and time: "October 18, 2004 8:32:32 AM GMT".

2.2 Define Name Space Binding for DC4ASFCONF

- a) Select **New** to create a new Binding
- b) Choose type **String** for the binding and select **Next**
- c) Enter
 - the Binding Identifier
(for example DC4ASFCONF),
 - Name in Name Space
(for example resources/asf/dc4asfconf)
 - and the path to your ASF configuration file
(/usr/lpp/fsn/V3R3M0W5/config/DocConfiguration.xml)
- d) Select **Next** to go to the Summary Panel
- e) On the Summary Panel select **Finish** to complete the Name Space Binding.



Save the two name space bindings created in the master configuration.

3 Installation of the application

Preparing for the application installation

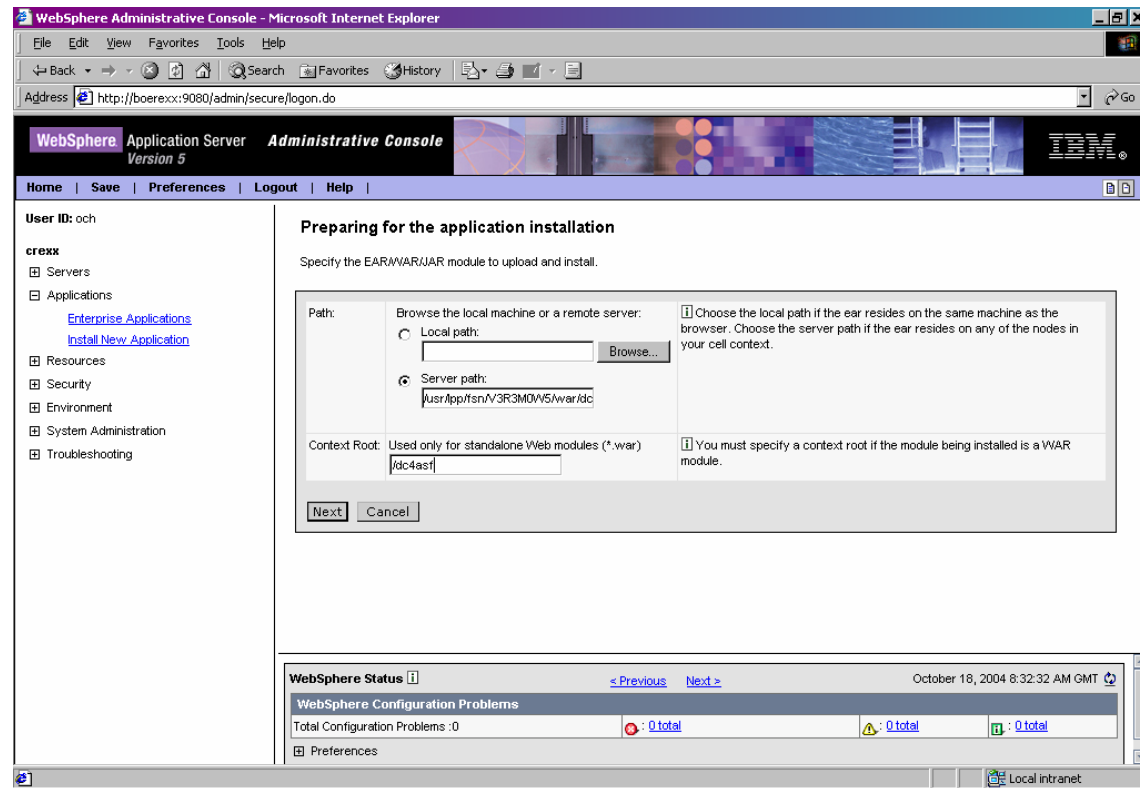
Open [Application](#) > [Install New Application](#)

Enter the path (local path or server path) where the DC4ASF war file is located:

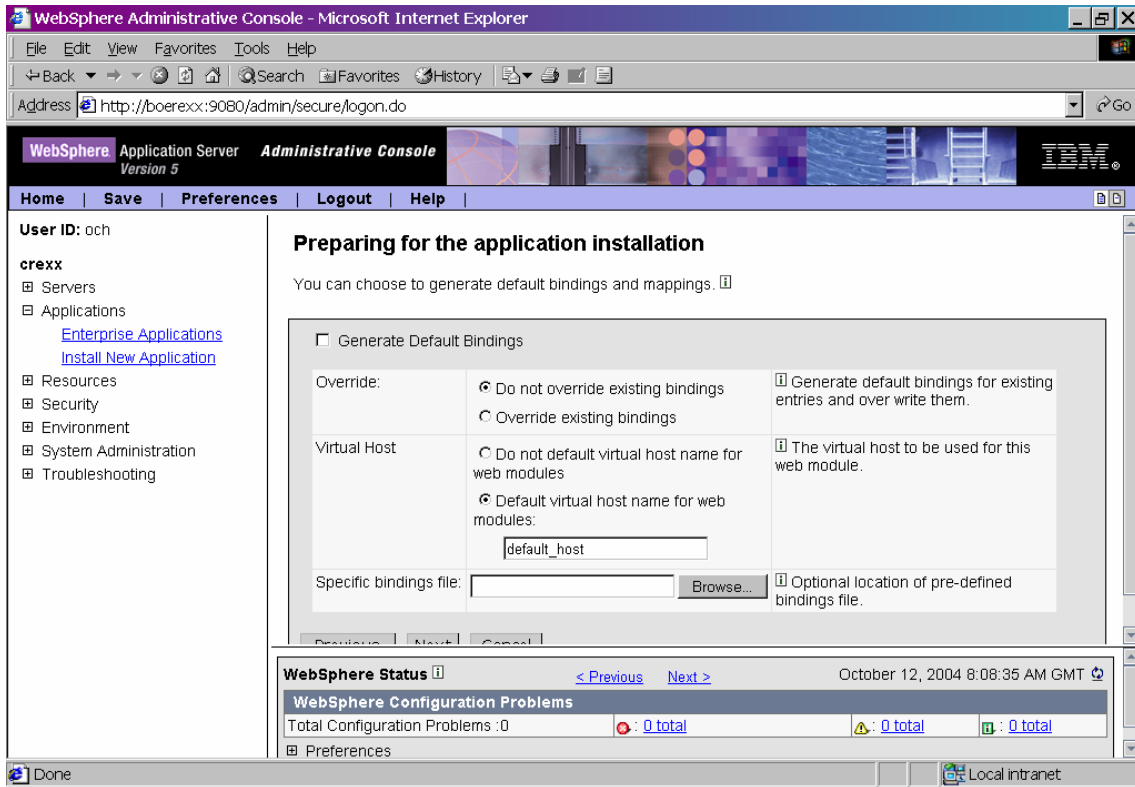
`/usr/lpp/fsn/V3R3M0W5/war/dc4asf.war`

Enter the context root, for example “/dc4asf”

Select [Next](#). The file “dc4asf.war” is now loaded on the server



Select [Next](#).



Select [Next](#).

Install new application (Step 1)

Fill in the required fields (installation directory, application name, class reloading).

Installation directory:

If you do not enter an installation directory, WAS will install the application under the default directory:

APP_INSTALL_ROOT/xxxxx/dc4asf.ear

where

- APP_INSTALL_ROOT is a path map variable which by default is set to
/SYSTEM/local/WebSphere/V5R1M0/AppServer/installedApps/
- 'xxxxx' is the cell name and
- 'dc4asf' is the application name.

Application Name:

Specify a unique name, for example 'dc4asf'.

Class Reloading:

Specify a value in seconds, for example '30'.

The screenshot shows the WebSphere Administrative Console interface in a Microsoft Internet Explorer browser window. The address bar shows the URL: http://boerexx:9080/admin/secure/logon.do. The page title is "WebSphere Administrative Console Version 5". The navigation menu includes Home, Save, Preferences, Logout, and Help. The user ID is "och" and the user is "crexx". The left sidebar shows a tree view with categories: Servers, Applications (with sub-links for Enterprise Applications and Install New Application), Resources, Security, Environment, System Administration, and Troubleshooting. The main content area is titled "Install New Application" and includes the sub-header "Allows installation of Enterprise Applications and Module". Below this, it says "Step 1: Provide options to perform the installation" and "Specify the various options available to prepare and install your application." A table lists the following options:

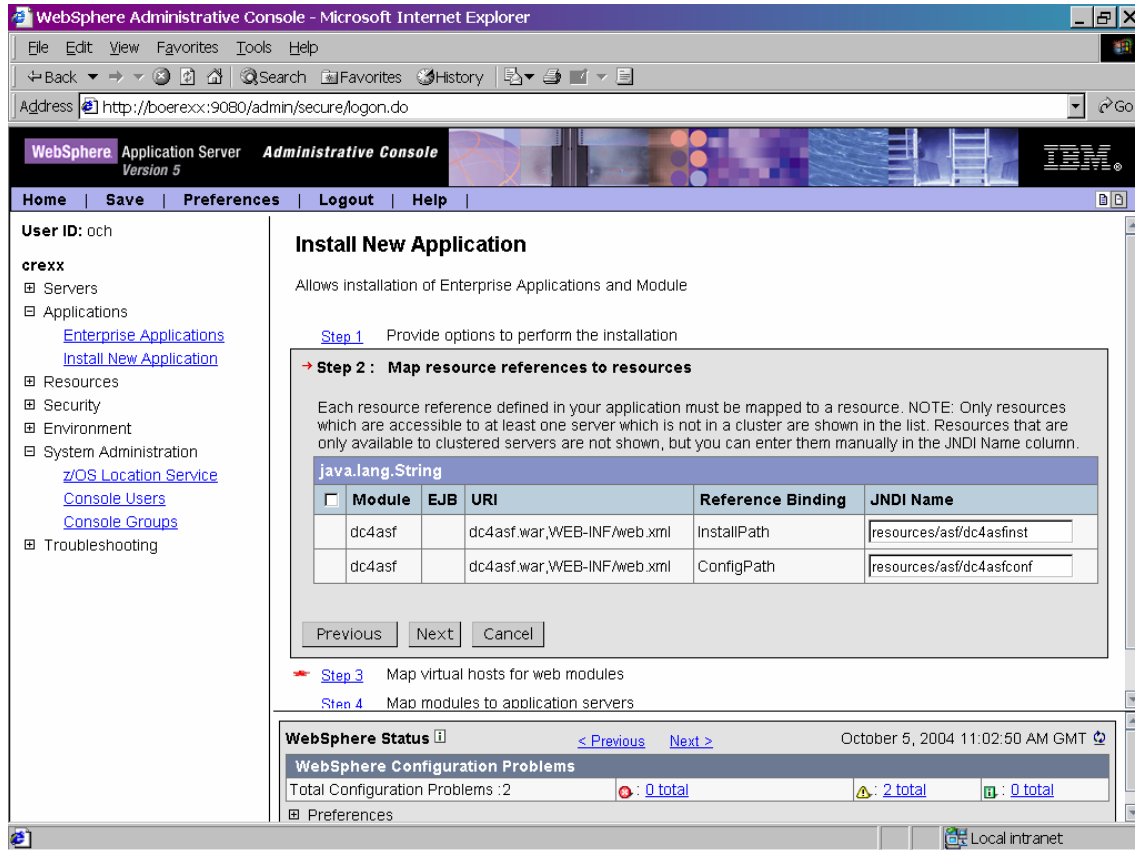
AppDeployment Options	Enable
Pre-compile JSP	<input type="checkbox"/>
Directory to Install Application	<input type="text"/>
Distribute Application	<input checked="" type="checkbox"/>
Use Binary Configuration	<input type="checkbox"/>
Deploy EJBs	<input type="checkbox"/>
Application Name	<input type="text" value="dc4asf"/>
Create MBeans for Resources	<input checked="" type="checkbox"/>

At the bottom of the page, there is a "WebSphere Status" section with navigation links for "< Previous" and "Next >". The date and time are "October 12, 2004 8:13:38 AM GMT". Below that is a "WebSphere Configuration Problems" section showing "Total Configuration Problems : 0" with counts for error (0 total), warning (0 total), and info (0 total). A "Preferences" link is also visible at the bottom left.

Select [Next](#) to finish Step 1 and go to Step 2.

Install new application (Step 2)

Enter `resources/asf/dc4asfinst` for the InstallPath Reference Binding (JNDI Name) and `resources/asf/dc4asfconf` for the ConfigPath Reference Binding (see “Name Space Bindings”).



The screenshot shows the WebSphere Administrative Console interface. The browser window title is "WebSphere Administrative Console - Microsoft Internet Explorer". The address bar shows "http://boerexx:9080/admin/secure/logon.do". The console header includes "WebSphere Application Server Administrative Console Version 5" and navigation links: Home, Save, Preferences, Logout, Help. The left sidebar shows a tree view with "User ID: och" and "crexx" expanded, listing Servers, Applications, Resources, Security, Environment, System Administration, and Troubleshooting. The main content area is titled "Install New Application" and contains the following text:

Allows installation of Enterprise Applications and Module

[Step 1](#) Provide options to perform the installation

→ **Step 2 : Map resource references to resources**

Each resource reference defined in your application must be mapped to a resource. NOTE: Only resources which are accessible to at least one server which is not in a cluster are shown in the list. Resources that are only available to clustered servers are not shown, but you can enter them manually in the JNDI Name column.

java.lang.String					
<input type="checkbox"/>	Module	EJB	URI	Reference Binding	JNDI Name
<input type="checkbox"/>	dc4asf		dc4asf.war,WEB-INF/web.xml	InstallPath	resources/asf/dc4asfinst
<input type="checkbox"/>	dc4asf		dc4asf.war,WEB-INF/web.xml	ConfigPath	resources/asf/dc4asfconf

Buttons: Previous, Next, Cancel

→ [Step 3](#) Map virtual hosts for web modules

[Step 4](#) Map modules to application servers

WebSphere Status < Previous Next > October 5, 2004 11:02:50 AM GMT

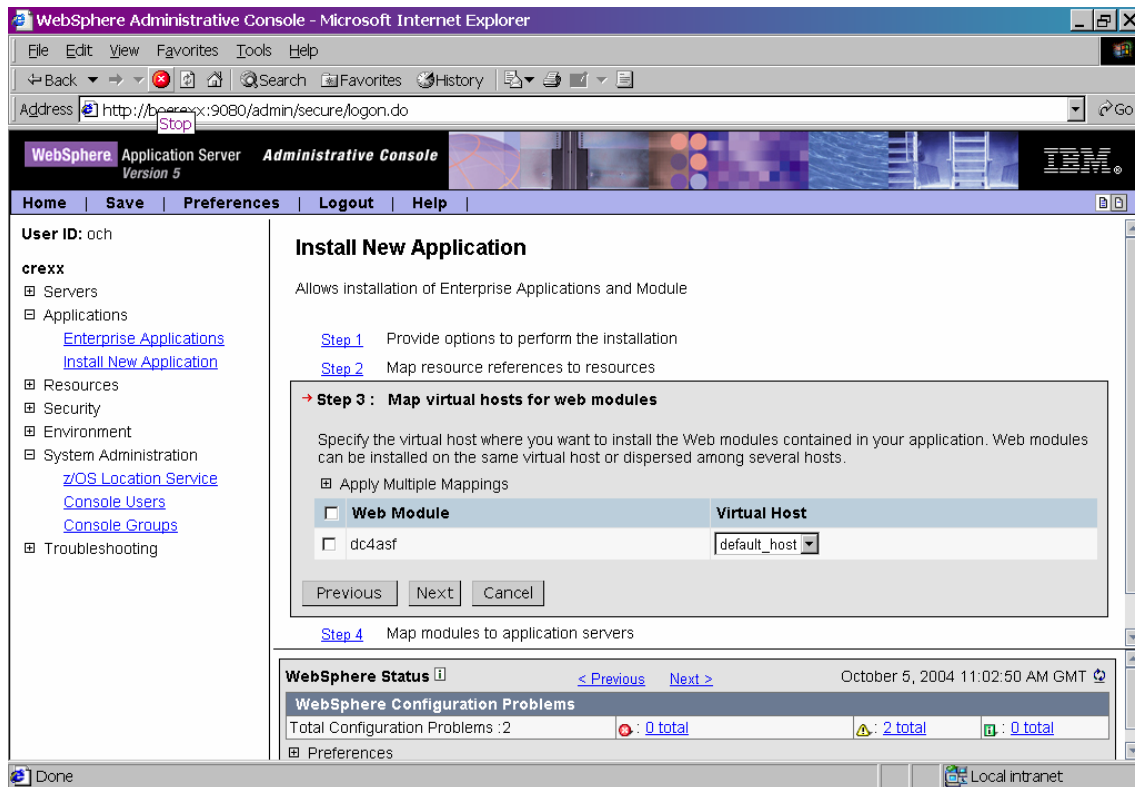
WebSphere Configuration Problems

Total Configuration Problems :2	: 0 total	: 2 total	: 0 total
---------------------------------	-----------	-----------	-----------

Preferences

Select [Next](#) to finish Step 2 and go to Step 3.

Install new application (Step 3)



No updates are required for Step 3. Select [Next](#) to finish Step 3 and go to Step 4.

Install new application (Step 4)

The screenshot shows the WebSphere Administrative Console interface in a Microsoft Internet Explorer browser window. The address bar displays `http://boerexx:9080/admin/secure/login.do`. The page title is "WebSphere Administrative Console - Version 5". The navigation menu includes "Home", "Save", "Preferences", "Logout", and "Help". The user ID is "och".

The main content area is titled "Install New Application" and contains the following steps:

- [Step 1](#) Provide options to perform the installation
- [Step 2](#) Map resource references to resources
- [Step 3](#) Map virtual hosts for web modules
- Step 4 : Map modules to application servers**

Under Step 4, the instruction reads: "Specify the application server where you want to install modules contained in your application. Modules can be installed on the same server or dispersed among several servers." A text input field contains the server name: "WebSphere:cell=crexx,node=nrexx,server=server1". An "Apply" button is located to the right of the input field.

Below the input field is a table with the following columns: "Module", "URI", and "Server".

<input type="checkbox"/>	Module	URI	Server
<input type="checkbox"/>	dc4asf	dc4asf.war,WEB-INF/web.xml	WebSphere:cell=crexx,node=nrexx,server=server1

At the bottom of the console, the "WebSphere Status" section shows the date and time: "October 5, 2004 11:02:50 AM GMT". Below this, the "WebSphere Configuration Problems" section displays: "Total Configuration Problems :2", with "0 total" for error icons (red circles), "2 total" for warning icons (yellow triangles), and "0 total" for information icons (green squares). A "Preferences" link is also visible.

No updates are required for Step 4. Select [Next](#) to finish Step 4 and go to Step 5.

Install new application (Step 5)

The screenshot shows the WebSphere Administrative Console interface in Microsoft Internet Explorer. The browser address bar displays `http://boerexx:9080/admin/secure/logon.do`. The console header includes 'WebSphere Application Server Administrative Console Version 5' and navigation links: Home, Save, Preferences, Logout, Help. On the left, a tree view shows the user 'och' and various system administration options. The main content area is titled 'Install New Application' and describes the installation process. It lists four steps: Step 1 (Provide options), Step 2 (Map resource references), Step 3 (Map virtual hosts), and Step 4 (Map modules). The current step is 'Step 5: Summary', which shows a table of install options.

Options	Values
Distribute Application	Yes
Use Binary Configuration	No
Cell/Node/Server	Click here
Enable Class Reloading	No
Create MBeans for Resources	Yes
Deploy EJBs	No

At the bottom of the console, the 'WebSphere Status' section shows the date and time as 'October 5, 2004 11:07:51 AM GMT'. Below it, the 'WebSphere Runtime Messages' section displays 'Total All Messages: 0' with counts for error, warning, and info messages, all currently at 0. A 'Clear All' button is also visible.

Check the settings on this page and select **Finish** to start the installation of your application. When the installation of the application has been completed it must be **saved** in the master configuration.

Start the application

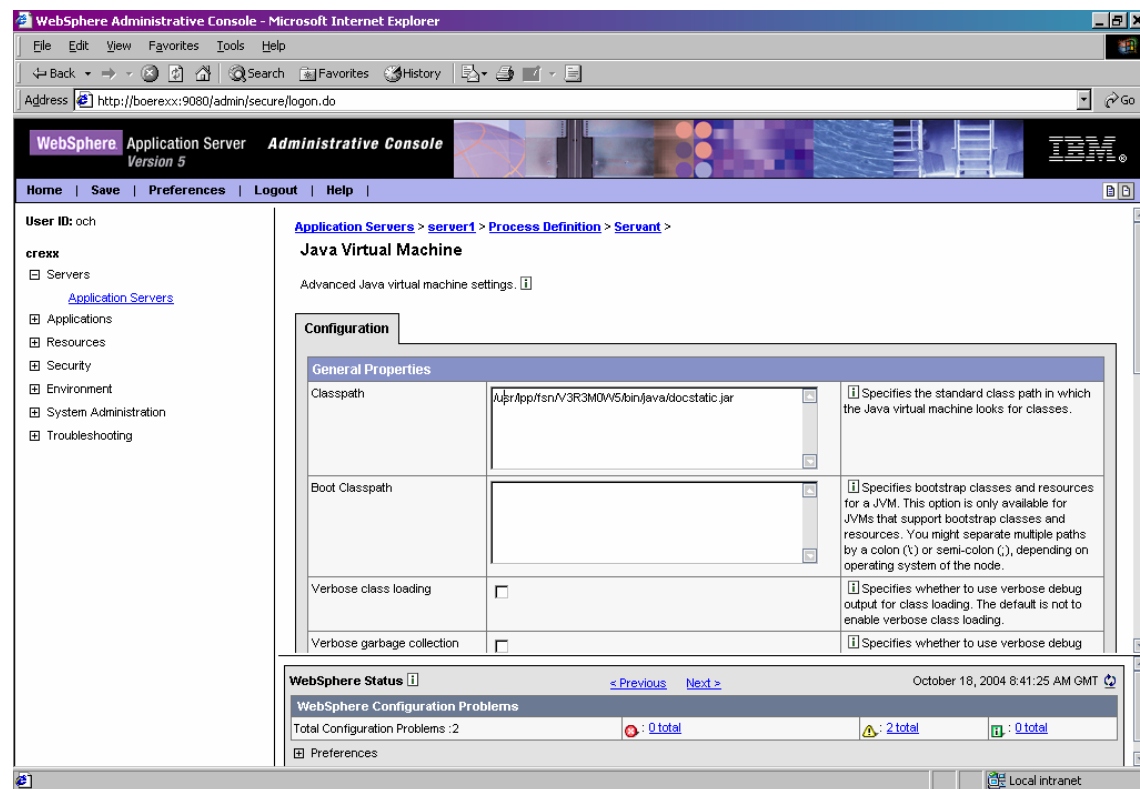
Open [Applications](#) > [Enterprise Application](#), select your dc4asf application, and select **Start** to start the application.

4 Spellcheck Installation

To activate spell check you must set the Classpath variable and define a LIBPATH variable to the WAS environment.

Open [Servers](#) > [Application Servers](#) > *server name* > [Process Definition](#) > [Servant](#) > [Java Virtual Machine](#)

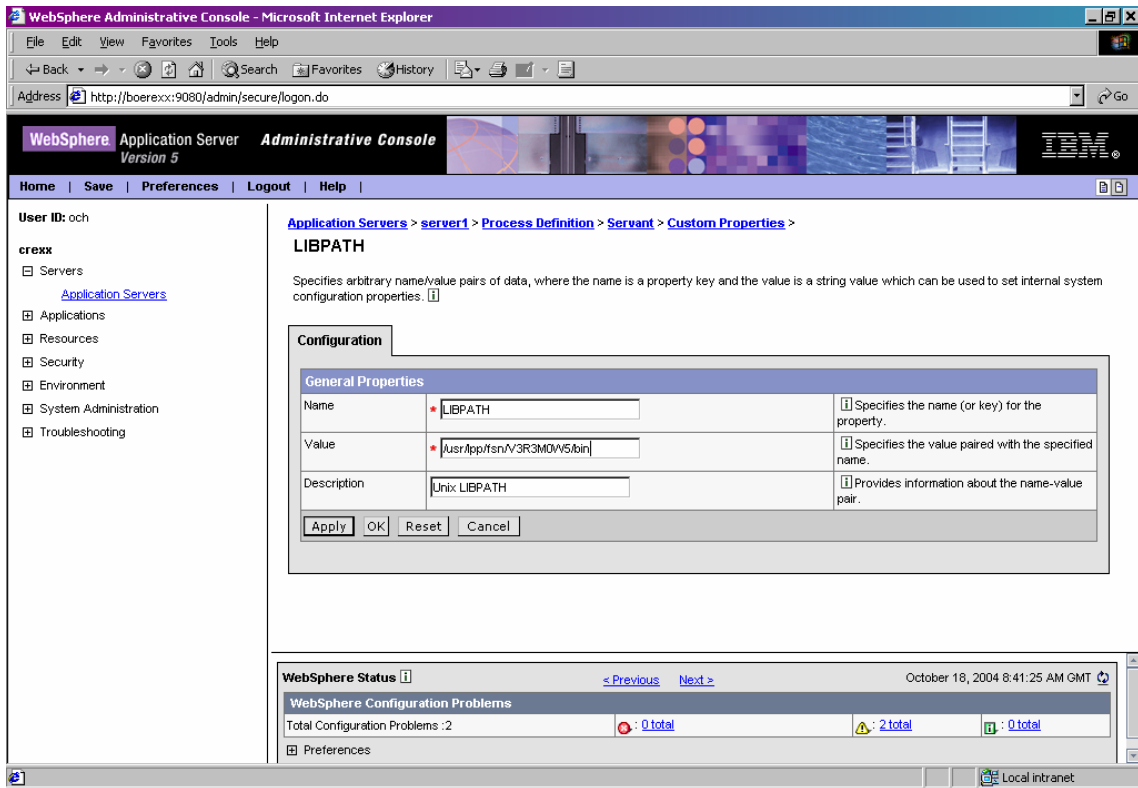
Add the file *docstatic.jar* delivered with DC4ASF to the Classpath (/usr/lpp/fsn/V3R3M0W5/bin/java/docstatic.jar).



Select [Apply](#) first and then select [OK](#).

Open [Servers](#) > [Application Servers](#) > *server name* > [Process Definition](#) > [Servant](#) > [Environment Entries](#)

Create the variable **LIBPATH**. Set its value to the Document Connect for ASF shared library path (/usr/lpp/fsn/V3R3M0W5/bin).



Select [Apply](#) first and then select [OK](#).

[Save](#) the changes to the master configuration.

5 Enable MQ Connection

To enable the MQ connection between server and host you must change the Classpath and the LIBPATH variable in the WAS environment.

Open [Servers](#) > [Application Servers](#) > *server name* > [Process Definition](#) > [Servant](#) > [Java Virtual Machine](#)

Add the files [com.ibm.mq.jar](#) and [com.ibm.mqjms.jar](#) delivered with WebSphere MQ to the Classpath (e.g. /usr/lpp/mqm/V5R3M1/java/lib/com.ibm.mq.jar)

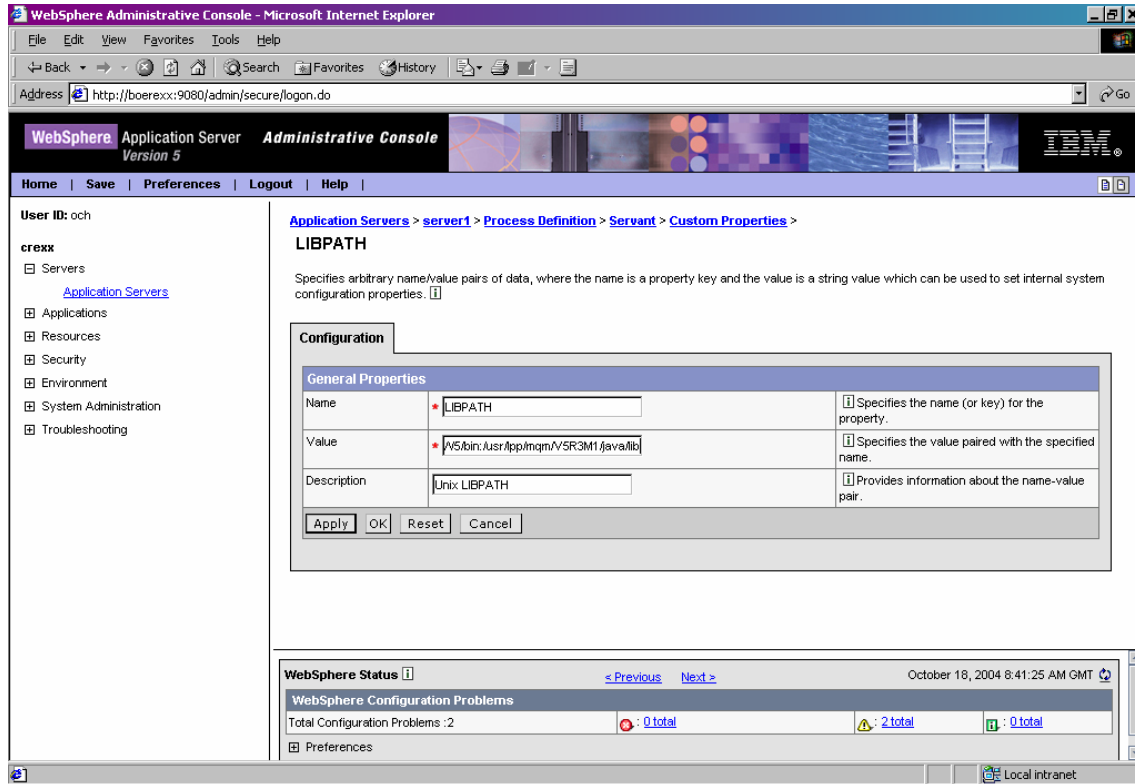
The screenshot displays the WebSphere Administrative Console interface. The breadcrumb navigation shows the path: [Application Servers](#) > [server1](#) > [Process Definition](#) > [Servant](#) > [Java Virtual Machine](#). The main content area is titled "Java Virtual Machine" and contains a "Configuration" section. Under "General Properties", the "Classpath" field is set to: /usr/lpp/mqm/V5R3M1/bin/java/docstatic.jar, /usr/lpp/mqm/V5R3M1/java/lib/com.ibm.mq.jar, /usr/lpp/mqm/V5R3M1/java/lib/com.ibm.mqjms.jar. Below this, there are fields for "Boot Classpath", "Verbose class loading" (unchecked), and "Verbose garbage collection" (unchecked). At the bottom of the console, the "WebSphere Status" section shows "Total Configuration Problems : 2" with a warning icon and "0 total" for errors and information.

Select [Apply](#) first and then select [OK](#).

Open [Servers](#) > [Application Servers](#) > *server name* > [Process Definition](#) > [Servant](#) > [Environment Entries](#)

Add the WebSphere MQ shared library path (/usr/lpp/mqm/V5R3M1/java/lib) to the value for the variable **LIBPATH**.

Note: Separate the path values with a semicolon.



Select **Apply** first and then select **OK**.

Save the changes to the master configuration.

After modifying the variables LIBPATH and Classpath, you must stop and restart WebSphere Application Server.

6 HTTP Server Changes

Configure the WebSphere *PLUGIN*

Using Shared Object library "ihs390WAS50Plugin_http.so"

Make sure you have installed the Shared Object (SO) library [ihs390WAS50Plugin_http.so](#). This SO is usually installed with WAS by selecting the HTTP server installation. It resides in the bin directory of the WAS installation.

Modify the configuration file "plugin-cfg.xml"

Generate the plugin configuration file "plugin-cfg.xml" using the WebSphere Administrative Console:

Open [Environment](#) > [Update Web Server Plugin](#)

Select [OK](#) to generate the file [plugin-cfg.xml](#) .

Note: Usually the xml file placed in the config/cells directory of the IBM WebSphere Application Server installation.

Copy the file "plugin-cfg.xml" into the "conf" directory of the IBM HTTP Server. Open the copy with an editor and modify it as follows:

a) Locate the following string (which may be customized with your installation values):

```
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/*"/>
```

Note:

dc4asf is the context root as described in "Preparing for the application installation".

b) Insert the text string "servlet/" before the asterisk:

```
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/servlet/*"/>
```

c) Add the following lines after the line specified in b) above:

```
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/html/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/xml/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/javascript/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/java/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/css/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/preview/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/DocASFServerConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/DocASFNetworkConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/DocASFNetworkConfigProcessServlet/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asf/DocASFFileServlet/*"/>
```

Note:

You will find these lines in the file plugin-cfg.xml.add delivered with DC4ASF in the /install directory.

d) Save the file

Configure the IBM HTTP Server

You need to configure your IBM HTTP Server to run properly with DC4ASF. Proceed as follows:

a) Open the HTTP server configuration file "httpd.conf". Usually it is located in the conf directory of the HTTP server installation.

b) Add the following lines:

```
Service /dc4asf/servlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/DocASFFileServlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/DocASFServerConfigServlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/DocASFNetworkConfigServlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/DocASFNetworkConfigProcessServlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/html/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/xsl/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/javascript/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/java/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/css/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asf/preview/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
PASS /dc4asf/ [path_prefix]/usr/fsn/V3R3M0W5/www/*
PASS /dc4asf/transfer/* [path_prefix]/usr/fsn/V3R3M0W5/transfer/*
PASS /dc4asf/help/* [path_prefix]/usr/fsn/V3R3M0W5/www/help/*
PASS /dc4asf/helpconfig/* [path_prefix]/usr/fsn/V3R3M0W5/www/helpconfig/*
PASS /dc4asf/images/* [path_prefix]/usr/fsn/V3R3M0W5/www/images/*
PASS /dc4asf/custom/* [path_prefix]/usr/fsn/V3R3M0W5/www/custom/*
PASS /dc4asf/samples/* [path_prefix]/usr/fsn/V3R3M0W5/www/samples/*
```

Note:

You will find these lines in the file http.conf.add delivered with DC4ASF in the /install directory.

c) Restart the HTTP server to activate the changes.

7 Configure the Connections

To define the server-host connections in DocNetworkConfiguration.xml invoke the servlet application “DocASFNetworkConfigServlet” using the Microsoft Internet Explorer.

Specify your MQ queue manager, the input queue, the output queue, the IMS transaction code, the defined User ID used for IMS logon, the corresponding password and the MQ wait interval.

Press button **OK** to save your changes.

Note:

The password specified will be encrypted and stored in file “hnp.txt” in the /config subdirectory.

IMSMQ connection configuration	
Host nickname	Host connection data
sc117mq	Connection type: IMSMQ
	Conversational IMS Processing: <input type="checkbox"/>
	Queue manager: QE71
	Server out-queue: REPLY.ZOS.ASF3317
	Server in-queue: QUERY.ASF3317.ZOS
	XCode: SC1E
	User ID: IMSUser
	New Password: *****
	Confirm new password: *****
	Wait interval: 25

Stop and **Start** your application in the WebSphere Administrative Console.

8 Installing a second Application

The steps above describe how to install the application dc4asf in WebSphere Application Server.

IBM recommends that you generate a second application instance of Document Connect for ASF for use by administrators, for example “dc4asftest”.

To create second instance use the script “docinstusr” available in directory [/usr/lpp/fsn/V3R3M0W5/bin](#).

When running this script, specify an alternate installation path, for example

[/usr/fsn/V3R3M0W5/dc4asftest](#)

Then perform the following steps using the WebSphere Administrator Console:

1. Add two name space bindings as described in chapter “Name Space Bindings” with different values, for example:

Binding Identifier	DC4ASFINSTTEST
Name in Name Space	resources/asf/dc4asfintstest
Path	/usr/fsn/V3R3M0W5/dc4asftest

Binding Identifier	DC4ASFCONFTEST
Name in Name Space	resources/asf/dc4asfconfest
Path	/usr/fsn/V3R3M0W5/dc4asftest/config/DocConfiguration.xml

2. Perform the steps described in “Installation of the application” with the following changes:

In the paragraph Preparing for the application installation specify the following path for the location of the war file:

[/usr/fsn/V3R3M0W5/dc4asftest/war/DCF4ASF.WAR](#)

and specify the following for context root:

[/dc4asftest](#)

In the paragraph “Install new application (Step 1)”, use “[dc4asftest](#)” as the application name.

In the paragraph “Install new application (Step 2)”, use the new name space bindings:

resources/asf/dc4asfintstest

resources/asf/dc4asfconfest

Now perform the steps described in “HTTP Server Changes“ using the context root [/dc4asftest](#).

The file `plugin-cfg.xml` will then contain the following lines:

```
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/servlet/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/html/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/xsl/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/javascript/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/java/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/css/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/preview/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/DocASFServerConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/DocASFNetworkConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/DocASFNetworkConfigProcessServlet/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/DocASFFileServlet/*"/>
```

The file `http.conf` will then contain the following lines:

```
Service /dc4asftest/servlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/DocASFFileServlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/DocASFServerConfigServlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/DocASFNetworkConfigServlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/DocASFNetworkConfigProcessServlet* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/html/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/xsl/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/javascript/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/java/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/css/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
Service /dc4asftest/preview/* /local/WebSphere/V5R1M0/bin/ihs390WAS50Plugin_http.so:service_exit
PASS /dc4asftest/ [path_prefix]/usr/fsn/V3R3M0W5/dc4asftest/www/*
PASS /dc4asftest/transfer/* [path_prefix]/usr/fsn/V3R3M0W5/dc4asftest/transfer/*
PASS /dc4asftest/help/* [path_prefix]/usr/fsn/V3R3M0W5/dc4asftest/www/help/*
PASS /dc4asftest/helpconfig/* [path_prefix]/usr/fsn/V3R3M0W5/dc4asftest/www/helpconfig/*
PASS /dc4asftest/images/* [path_prefix]/usr/fsn/V3R3M0W5/dc4asftest/www/images/*
PASS /dc4asf/custom/* [path_prefix]/usr/fsn/V3R3M0W5/dc4asftest/www/custom/*
PASS /dc4asf/samples/* [path_prefix]/usr/fsn/V3R3M0W5/dc4asftest/www/samples/*
```

9 Applying Maintenance

Use SMP/E to apply the PTF containing new tar file(s). SMP/E will copy the tar file(s) into directory `/usr/lpp/fsn/V3R3M0W5/IBM` and will explode the content of the tar file(s) into `/usr/lpp/fsn/V3R3M0W5/config .../bin .../resources .../war ...` etc.

Use the script file “docinstusr” available in directory `/usr/lpp/fsn/V3R3M0W5/bin` to apply the war file to appropriate application, for example `dc4asftest`.

Open the WebSphere Administrative Console:

[Open Application > Enterprise Application](#)

Select application “dc4asftest” and select [Update](#).

The screenshot shows the WebSphere Administrative Console interface. The main content area is titled "Enterprise Applications" and contains a table of installed applications. The table has columns for "Name" and "Status". The application "dc4asftest" is selected with a checkmark, and its status is "Stopped" (indicated by a red X icon). Other applications listed include "adminconsole", "dc4asf", "ivtApp", "x5hello", and "z5TestHans". Below the table, there are buttons for "Start", "Stop", "Install", "Uninstall", "Update", "Export", and "Export DDL". The "Update" button is highlighted. The console also shows a "WebSphere Status" section at the bottom, indicating 0 total configuration problems.

Enter the path (local path or server path) where the new DC4ASF war file is located:

`/usr/fsn/V3R3M0W5/dc4asftest/war/dc4asf.war`

Enter the context root: “/dc4asftest”

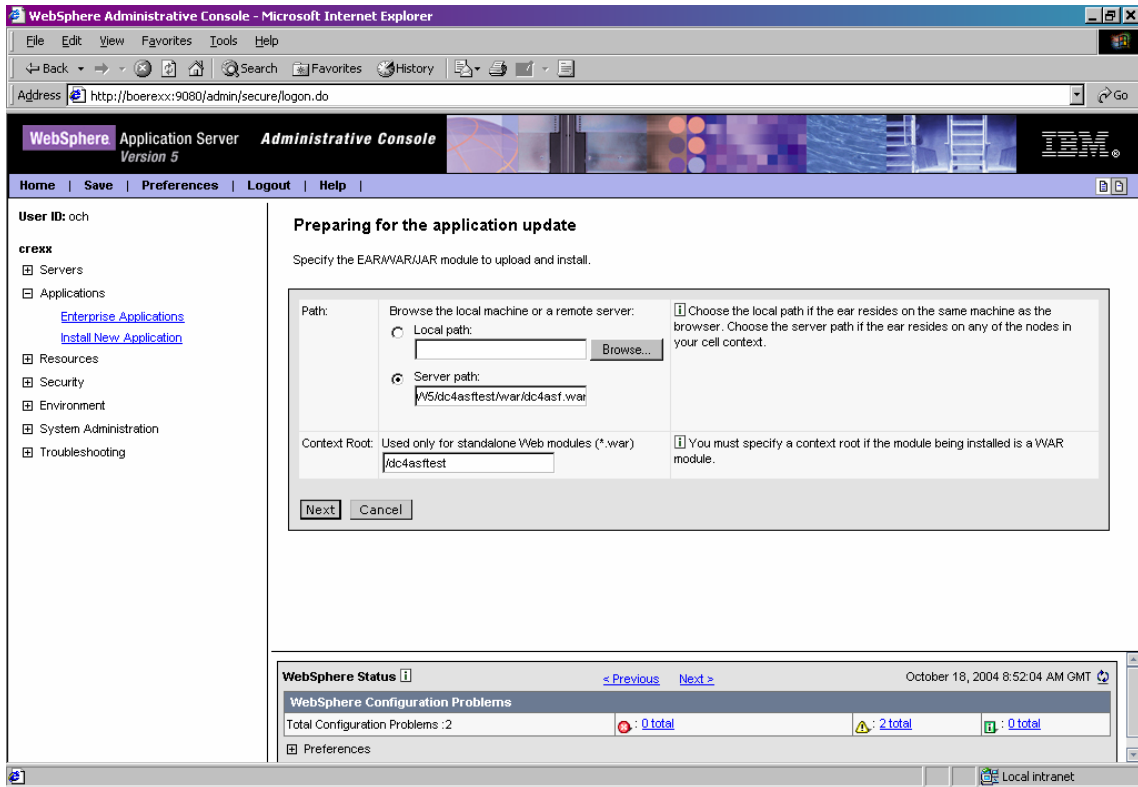
Note:

The context root must be the same as the context root entered during installation (see “Preparing for the application installation”). If you do not remember the context root of your installation, check the file `plugin-cfg.xml` in the directory `/SYSTEM/etc/`:

...

```
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/servlet/*"/>
<Uri AffinityCookie="JSESSIONID" AffinityURLIdentifier="jsessionid" Name="/dc4asftest/html/*"/>
```

...



On each of the next panels select **Next** and finally select **Finish**. When the update of the application has completed, save the master configuration.

Open **Applications > Enterprise Application** and select your application dc4asftest. Select **Stop** first and then select **Start** to restart the application.