

ASF 3.3 with CICS 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

31 March 2005

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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 (CICS) are available. This means the input and output queue are available and the input queue is connected to CICS via the CICS adapter and the CICS bridge.

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 ASF V3R3 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

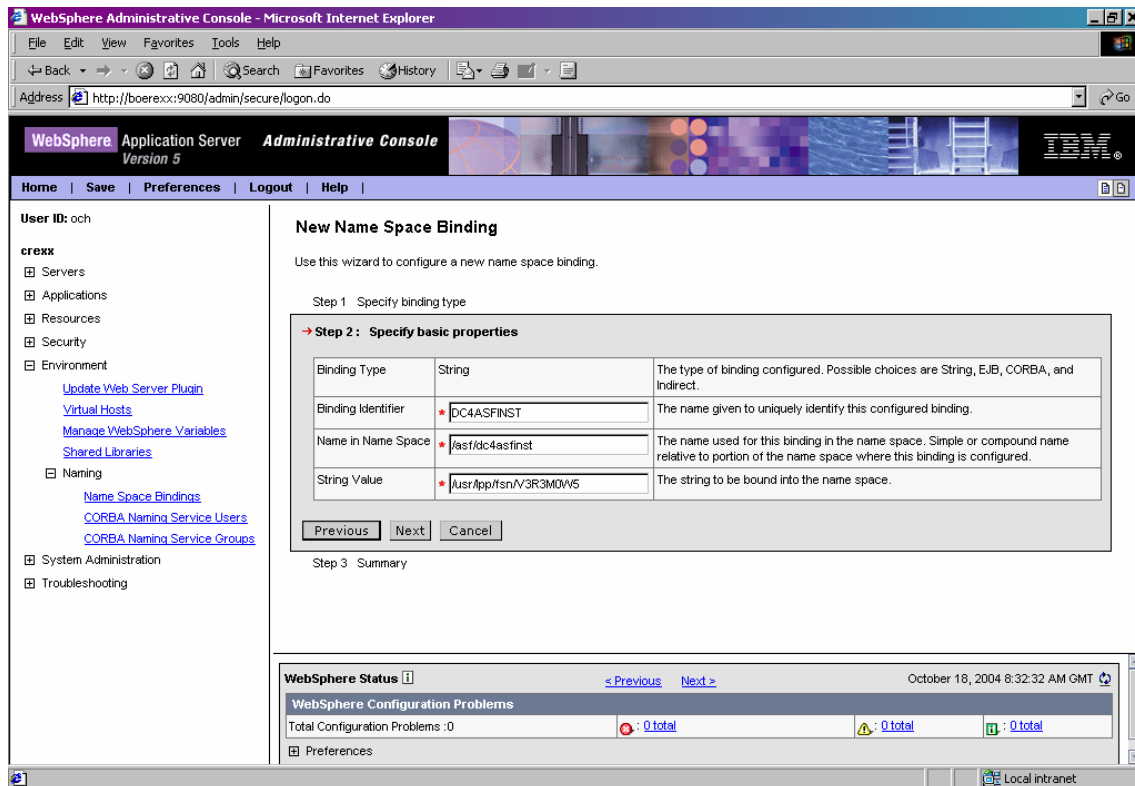
Two name space bindings must be created. To do this, open the WebSphere Administrative Console:

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

Note: Ensure you are in the Server scope.

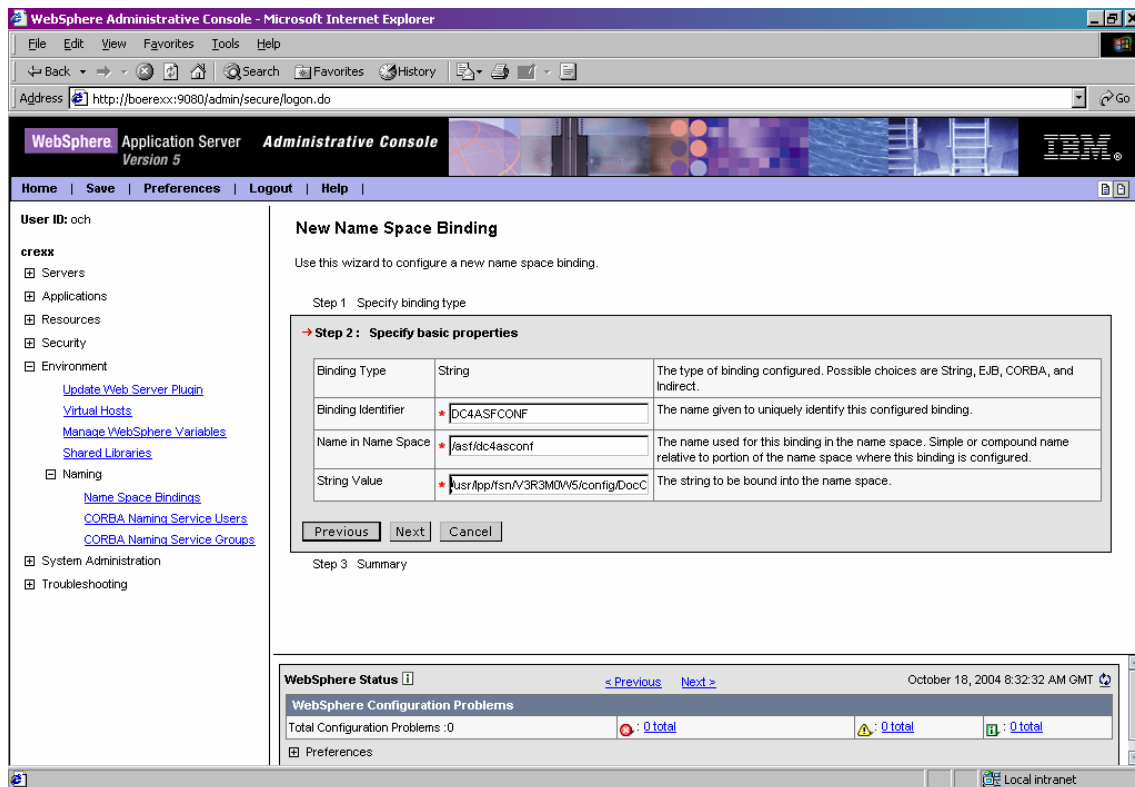
2.1 Define Name Space Binding for DC4ASFINST

- 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.



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

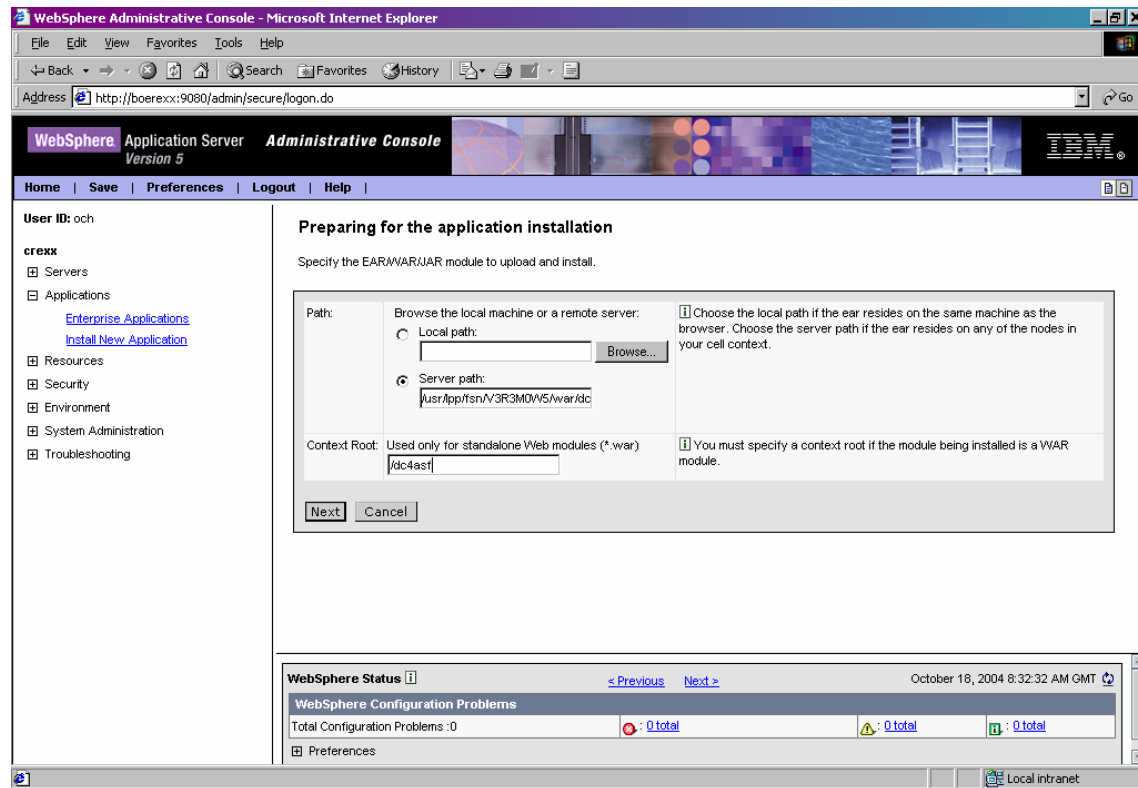
Open [Application](#) > [Install New Application](#)

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

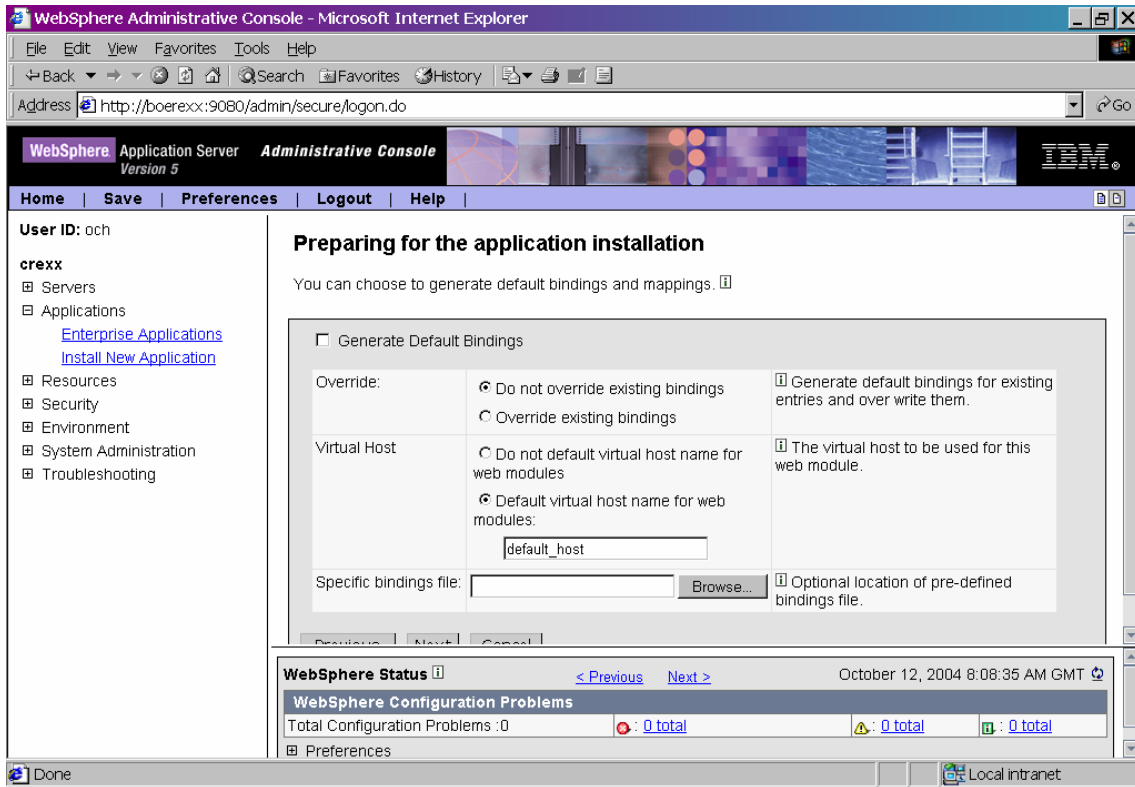
`/usr/lpp/fsn/V3R3M0W5/war/dc4asf.war`

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

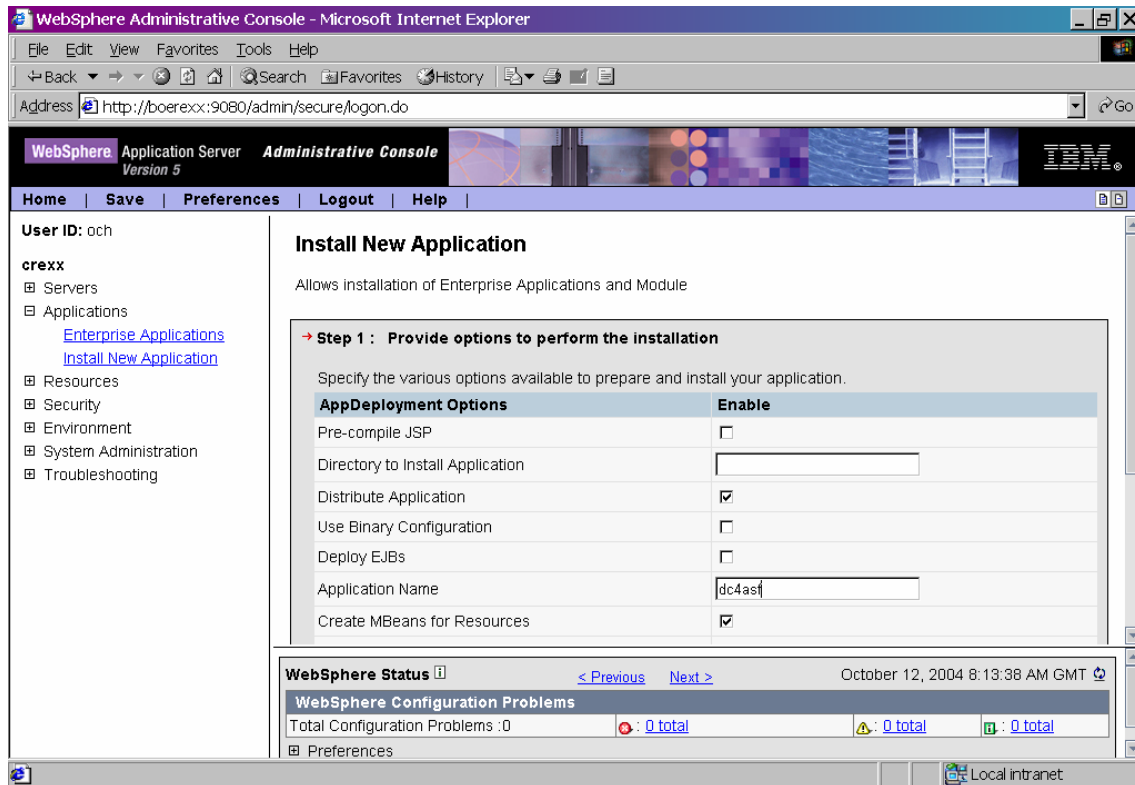
- APP_INSTALL_ROOT is a path map variable which by default is set to
/SYSTEM/local/WebSphere/V5R1M0/AppServer/installedApps/
- 'xxxxx' is the cell name and
- 'dc4asf' is the application name.

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 console title is "WebSphere Administrative Console - Microsoft Internet Explorer". The main content area is titled "Install New Application" and contains the following information:

WebSphere Administrative Console
Version 5

Home | Save | Preferences | Logout | Help

User ID: och
crexx

- Servers
- Applications
 - Enterprise Applications
 - Install New Application
- Resources
- Security
- Environment
- System Administration
- Troubleshooting

Install New Application
Allows installation of Enterprise Applications and Module

→ Step 1 : Provide options to perform the installation

Specify the various options available to prepare and install your application.

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"/>

WebSphere Status | < Previous | Next > | October 12, 2004 8:13:38 AM GMT

WebSphere Configuration Problems

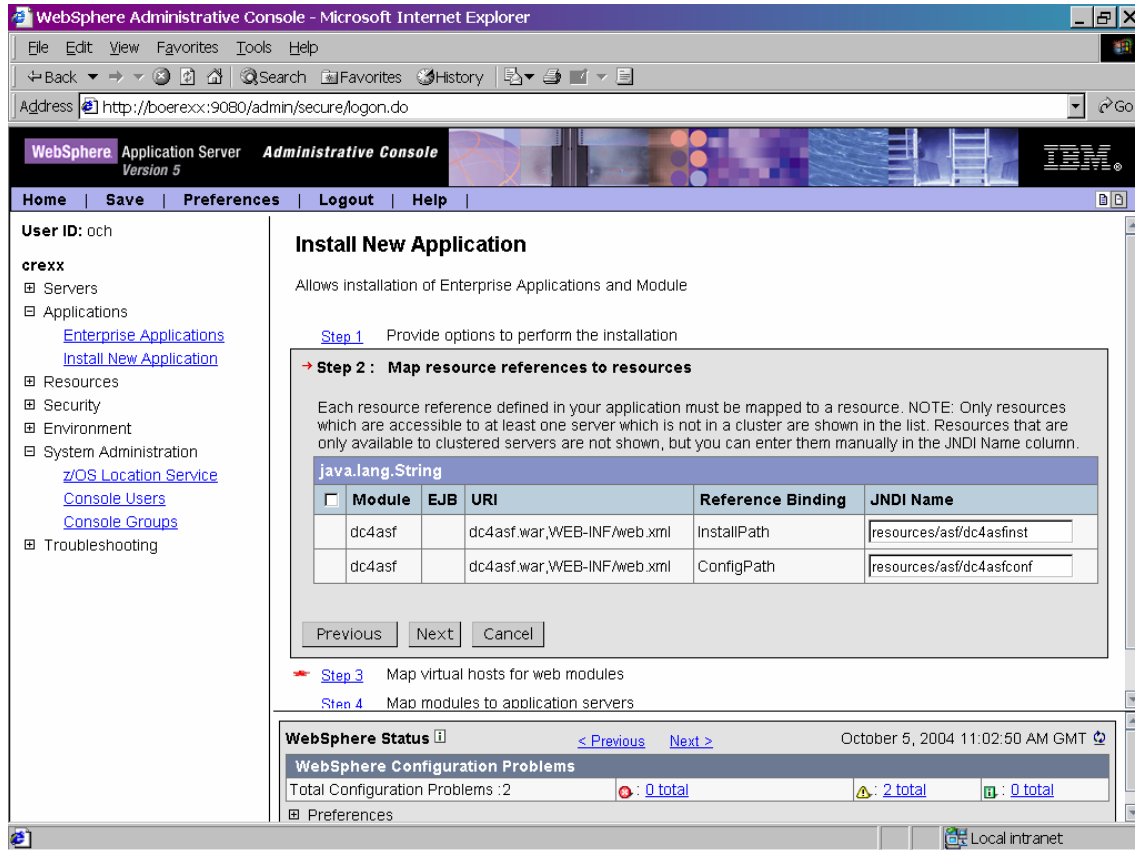
Total Configuration Problems : 0	<input type="checkbox"/> : 0 total	<input type="checkbox"/> : 0 total	<input type="checkbox"/> : 0 total
----------------------------------	------------------------------------	------------------------------------	------------------------------------

Preferences

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/login.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)

The screenshot shows the WebSphere Administrative Console in Microsoft Internet Explorer. The browser address bar displays `http://localhost:9080/admin/secure/login.do`. The console interface includes a navigation menu on the left with options like Home, Save, Preferences, Logout, and Help. 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

→ Step 3 : Map virtual hosts for web modules

Specify the virtual host where you want to install the Web modules contained in your application. Web modules can be installed on the same virtual host or dispersed among several hosts.

Apply Multiple Mappings

Web Module	Virtual Host
<input type="checkbox"/> dc4asf	default_host

Buttons: Previous, Next, Cancel

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

At the bottom, the "WebSphere Status" section shows the date "October 5, 2004 11:02:50 AM GMT" and a "WebSphere Configuration Problems" summary: "Total Configuration Problems :2" with 0 errors, 2 warnings, and 0 info messages.

No updates are required for Step 3. Select [Next](#) to 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 browser's address bar displays the URL `http://boerexx:9080/admin/secure/login.do`. The console header includes the text "WebSphere Application Server Administrative Console Version 5" and navigation links for "Home", "Save", "Preferences", "Logout", and "Help".

On the left side, a navigation menu lists various categories: "User ID: och", "crexx", "Servers", "Applications" (with sub-links for "Enterprise Applications" and "Install New Application"), "Resources", "Security", "Environment", "System Administration" (with sub-links for "z/OS Location Service", "Console Users", and "Console Groups"), and "Troubleshooting".

The main content area is titled "Install New Application" and contains the following text: "Allows installation of Enterprise Applications and Module". It lists three steps: "Step 1: Provide options to perform the installation", "Step 2: Map resource references to resources", and "Step 3: Map virtual hosts for web modules".

The current step is "Step 4: Map modules to application servers". The instructions state: "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." Below this text is a text input field containing the server name: `WebSphere:cell=crexx,node=nrexx,server=server1`, followed by an "Apply" button.

Below the input field is a table with the following structure:

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

No updates are required for Step 4. Select [Next](#) to 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 page title is "WebSphere Administrative Console - Version 5". The navigation menu includes "Home", "Save", "Preferences", "Logout", and "Help". The left sidebar shows the "User ID: och" and "crexx" with a tree view of "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
- [Step 3](#) Map virtual hosts for web modules
- [Step 4](#) Map modules to application servers

Step 5 : Summary

Summary 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 "October 5, 2004 11:07:51 AM GMT" and "WebSphere Runtime Messages" with a "Clear All" button. The message bar displays: "Total All Messages: 0", "0 new, 0 total", "0 new, 0 total", and "0 new, 0 total".

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

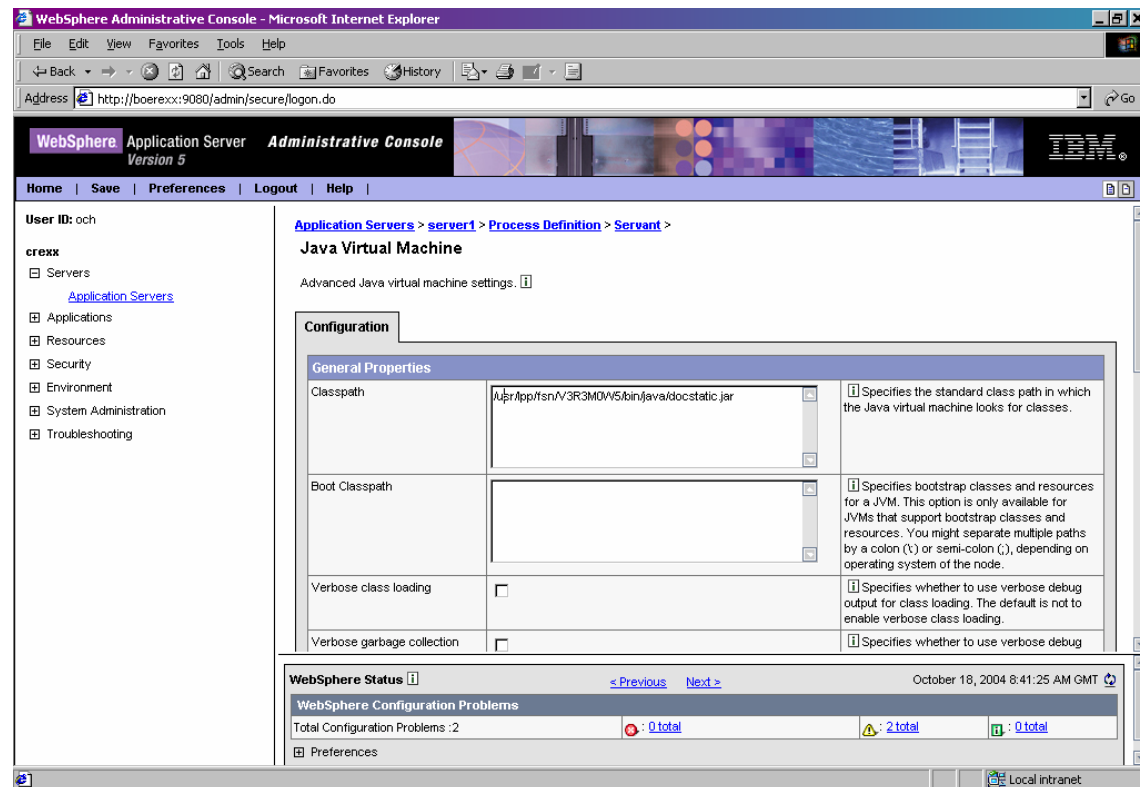
Open [Applications](#) > [Enterprise Application](#), select your dc4asf application, and select **Start** to start the application.

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](#)

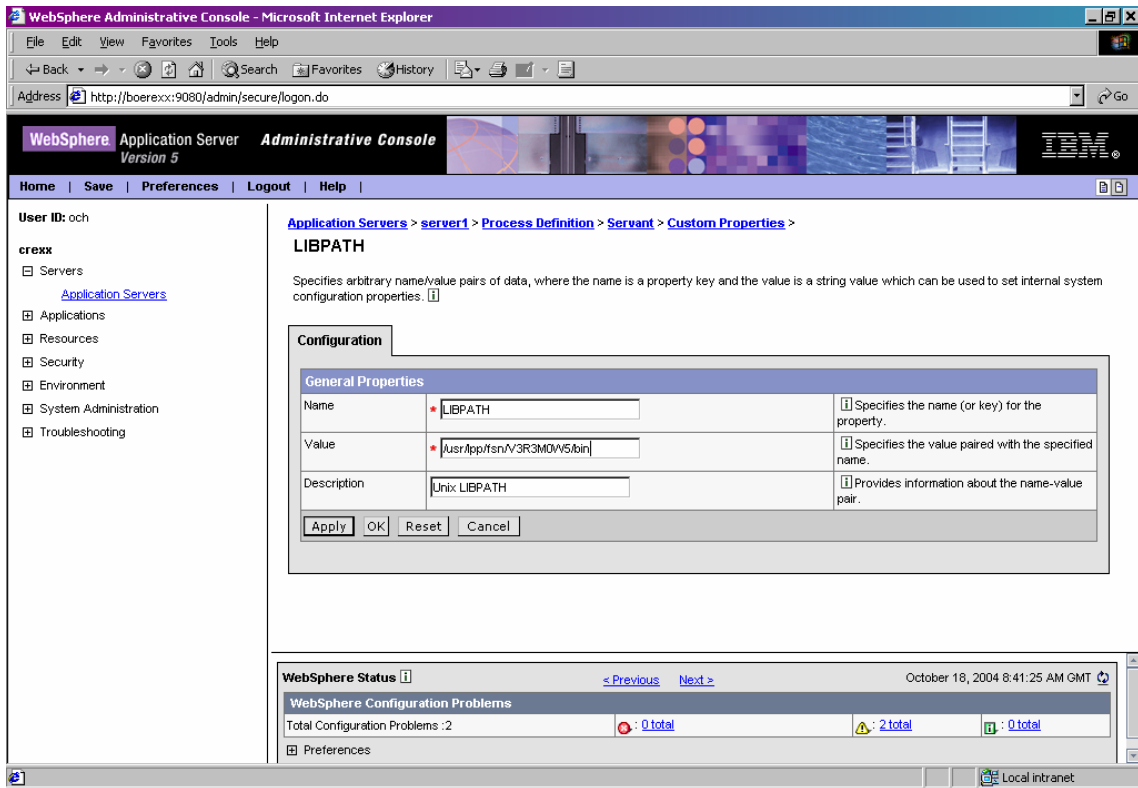
Add the file *docstatic.jar* delivered with DC4ASF to the Classpath (/usr/lpp/fsn/V3R3M0W5/bin/java/docstatic.jar).



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 shows the WebSphere Administrative Console interface. The breadcrumb navigation is [Application Servers](#) > [server1](#) > [Process Definition](#) > [Servant](#). The main heading is **Java Virtual Machine** with the subtitle "Advanced Java virtual machine settings." The **Configuration** tab is active, showing a table of settings:

General Properties	
Classpath	<input type="text" value="/usr/App/tn/V3R3M0/V5/bin/java/docstatic.jar
/usr/App/mqm/V5R3M1/java/lib/com.ibm.mq.jar
/usr/App/mqm/V5R3M1/java/lib/com.ibm.mqjms.jar"/> <small>Specifies the standard class path in which the Java virtual machine looks for classes.</small>
Boot Classpath	<input type="text"/> <small>Specifies bootstrap classes and resources for a JVM. This option is only available for JVMs that support bootstrap classes and resources. You might separate multiple paths by a colon (:) or semi-colon (;), depending on operating system of the node.</small>
Verbose class loading	<input type="checkbox"/> <small>Specifies whether to use verbose debug output for class loading. The default is not to enable verbose class loading.</small>
Verbose garbage collection	<input type="checkbox"/> <small>Specifies whether to use verbose debug</small>

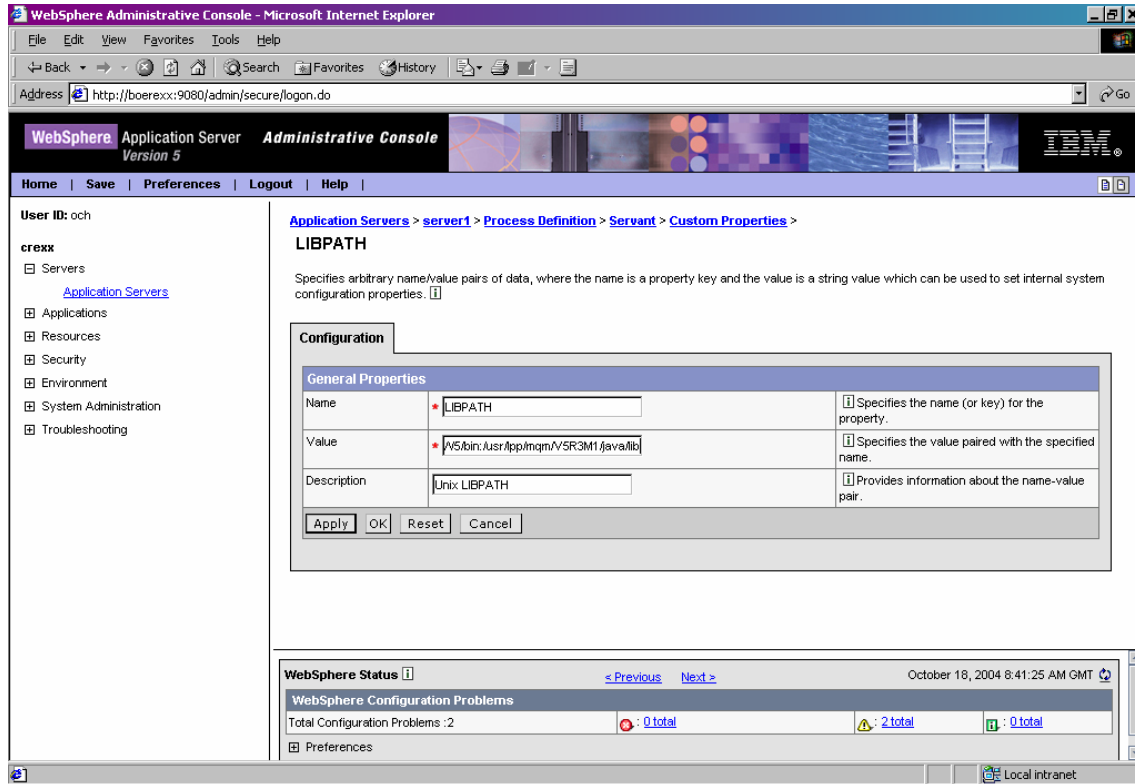
At the bottom, the **WebSphere Status** bar shows "Total Configuration Problems : 2" with a warning icon and "2 total" next to it. The date and time are "October 18, 2004 8:41:25 AM GMT".

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 is 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/xsl/*"/>
<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 CICS program name (must be FSNWRFC), the defined User ID used for CICS 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.

CICS MQ connection configuration	
Host nickname	Host connection data
CidB2mq	Connection type: CICS MQ
	Queue manager: QE71
	Server out-queue: REPLY.ZOS.ASF33DB2
	Server in-queue: QUERY.ZOS.ASF33DB2
	CICS program: FSNWRFC
	User ID: CICSUSER
	New Password: *****
	Confirm new password: *****
	Wait interval: 25

Stop and **Start** your application using 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” which is available in directory [/usr/lpp/fsn/V3R3M0W5/bin](#).

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

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

Continue with the following steps using the WebSphere Administrator Console:

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

Binding Identifier	DC4ASFINSTTEST
Name in Name Space	resources/asf/dc4asfintsttest
Path	/usr/fsn/V3R3M0W5/dc4asftest

Binding Identifier	DC4ASFCONFTEST
Name in Name Space	resources/asf/dc4asfconfstest
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/dc4asfintsttest

resources/asf/dc4asfconfstest

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/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/DocASFFileServlet* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/DocASFServerConfigServlet* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/DocASFNetworkConfigServlet* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/DocASFNetworkConfigProcessServlet* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/html/* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/xsl/* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/javascript/* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/java/* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/css/* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_http.so:service_exit
Service /dc4asftest/preview/* /local/WebSphere/V5R1M0/bin/ih390WAS50Plugin_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

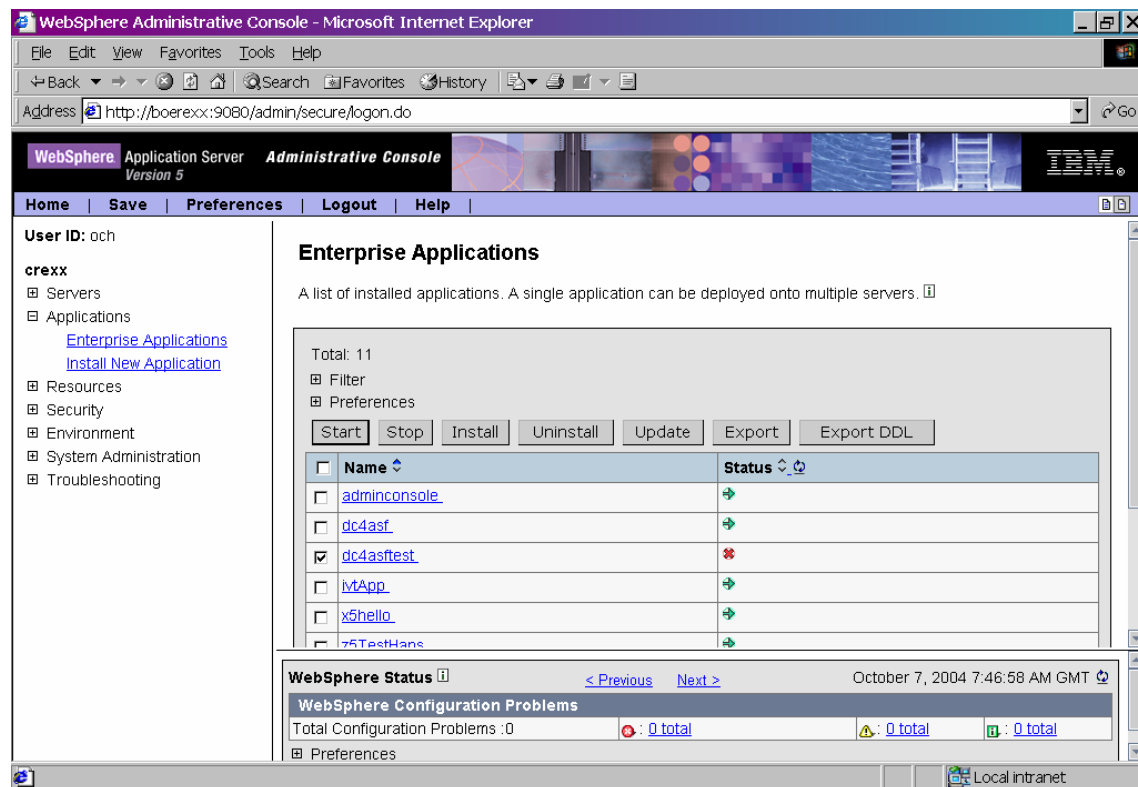
Use SMP/E to apply the PTF containing new tar file(s).
SMP/E will copy the tar file(s) into directory `/usr/lpp/fsn/V3R3M0W5/IBM` and will explode the content of the tar file(s) into `/usr/lpp/fsn/V3R3M0W5/config .../bin ... /resources ... /war ... etc.`

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

Open the WebSphere Administrative Console:

[Open Application > Enterprise Application](#)

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



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

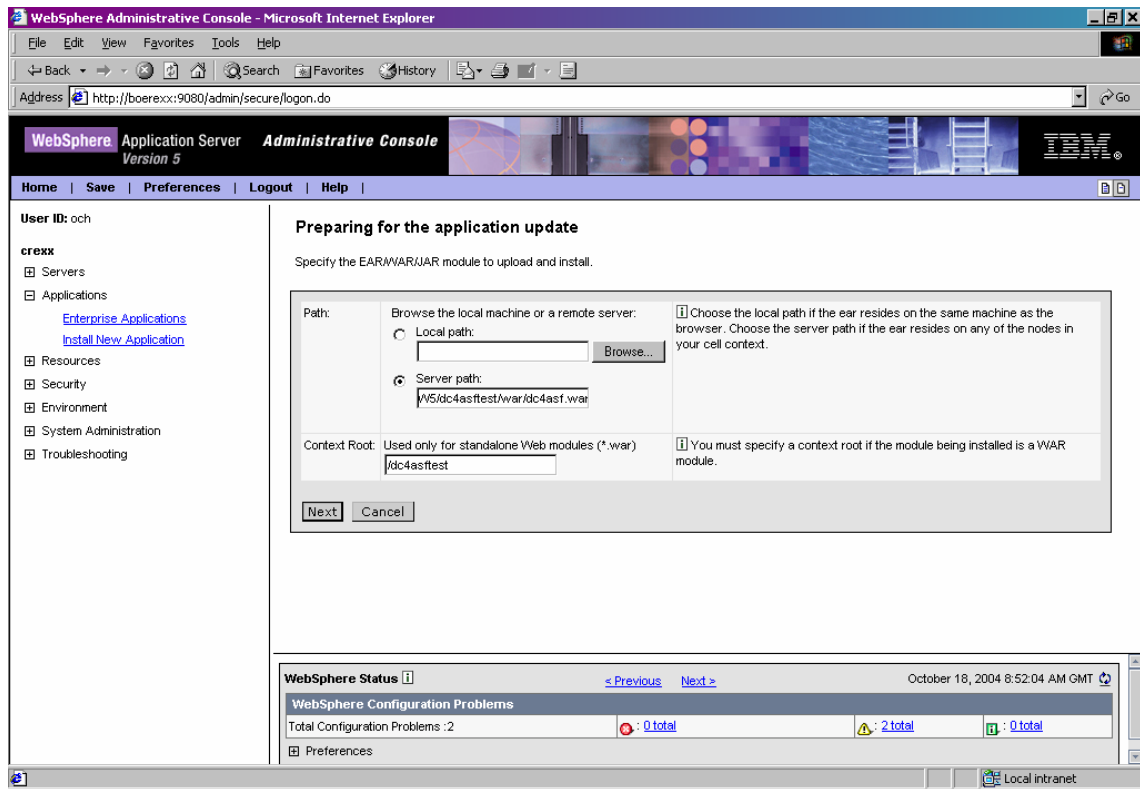
`/usr/fsn/V3R3M0W5/dc4asftest/war/dc4asf.war`

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** and then select **Start** to restart the application.