

ASF 3.3 with IMS Document Connect for ASF

Installation on AIX 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
`/usr/WebSphere/AppServer51`

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
`/usr/IBMHttpServer`

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

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

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

`/usr/fsn/v3r3m0w5/dc4asf`

where `/usr/fsn/v3r3m0w5/` is fix and `dc4asf` can be specified after installation with SMIT/SMITTY with the `docinstusr.sh` script file.

2 Name Space Bindings

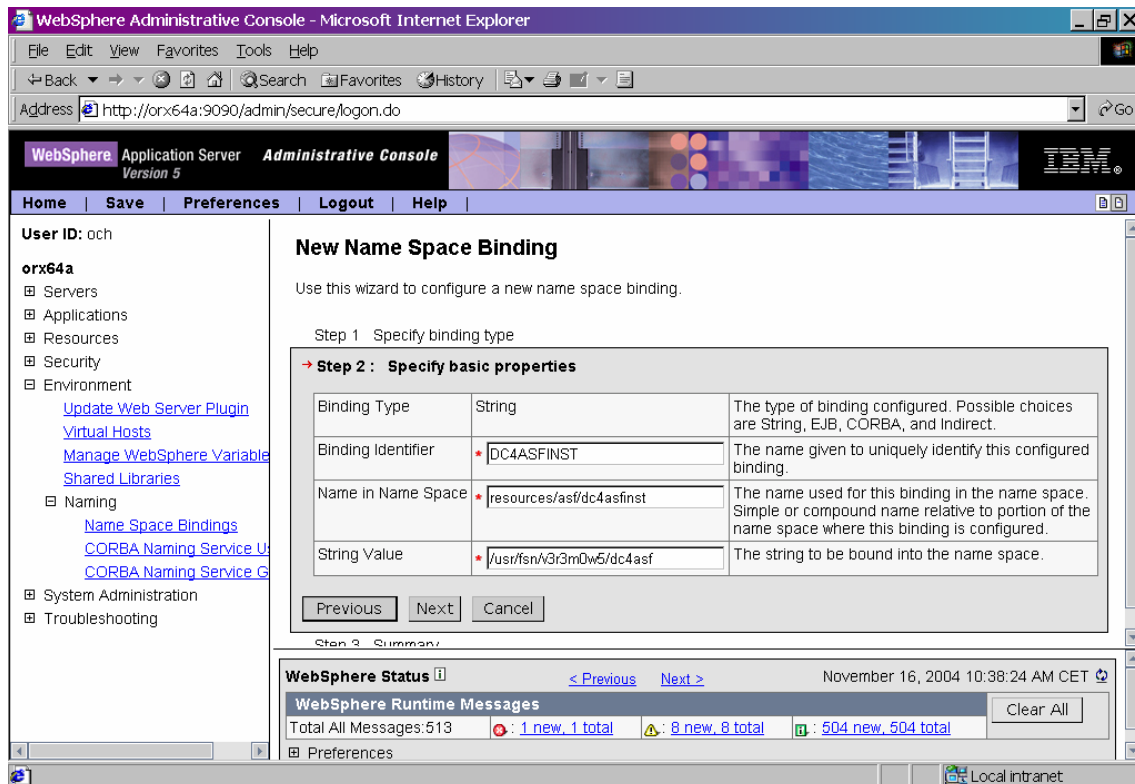
Two name space bindings must be created. To do this, open the WebSphere Administrative Console:

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

Note: Ensure you are in the Server scope.

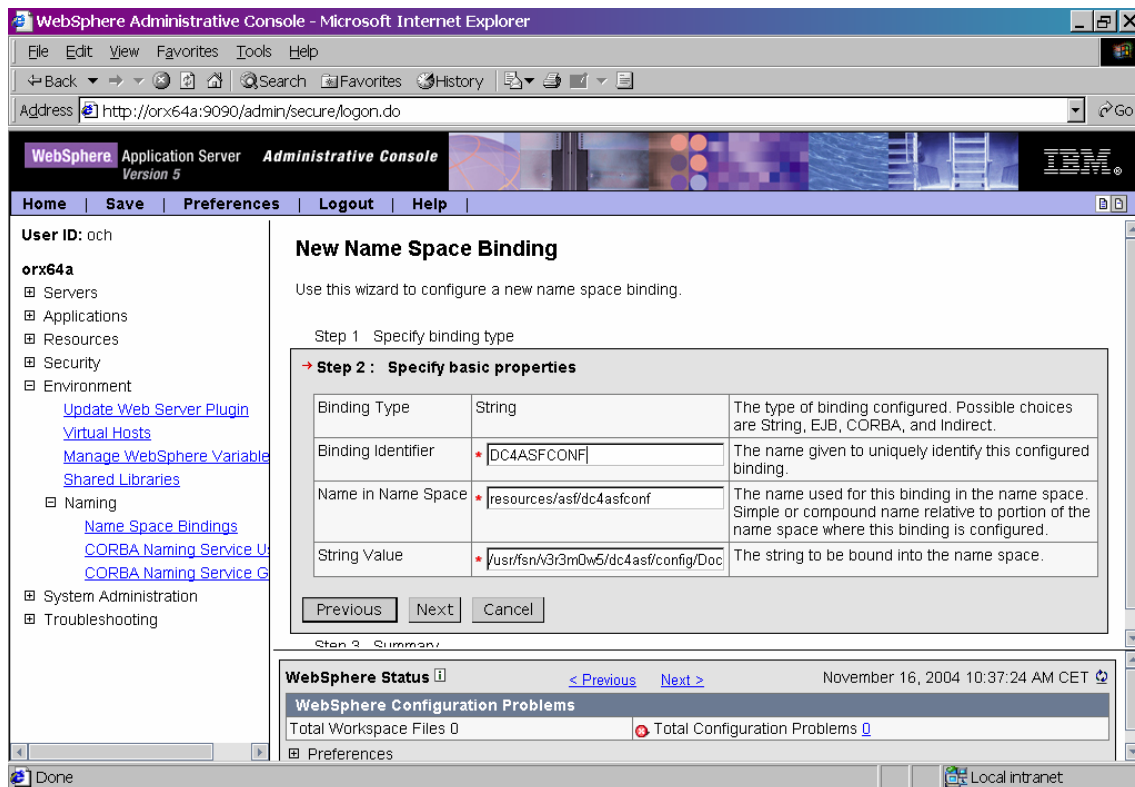
2.1 Define Name Space Binding for DC4ASFINST

- Press button **New** to create a new Binding
- Choose type **String** for the binding and press button **Next**
- 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/fsn/v3r3m0w5/dc4asf)
- Press button **Next** to go to the Summary Panel
- On the Summary Panel press button **Finish** to complete the Name Space Binding.



2.2 Define Name Space Binding for DC4ASFCONF

- a) Press button **New** to create a new Binding
- b) Choose type **String** for the binding and press button **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/fsn/v3r3m0w5/dc4asf/config/DocConfiguration.xml)
- d) Press button **Next** to go to the Summary Panel
- e) On the Summary Panel press button **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

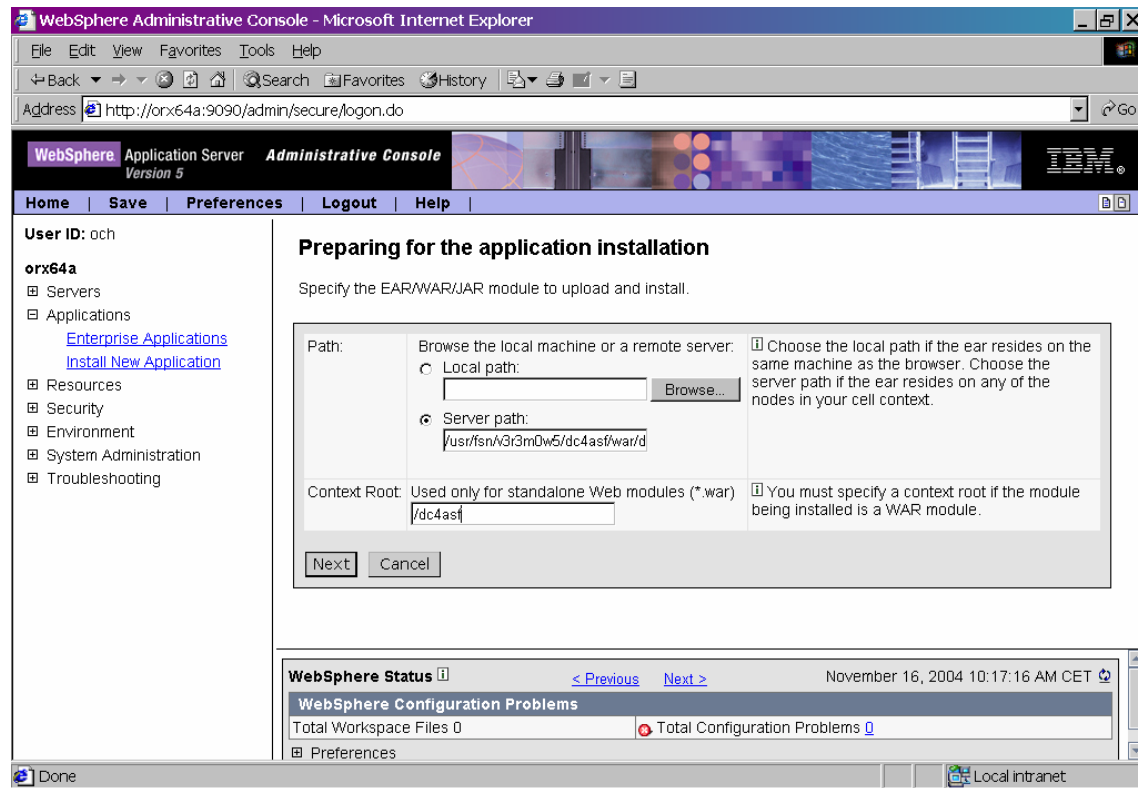
Open [Application](#) > [Install New Application](#)

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

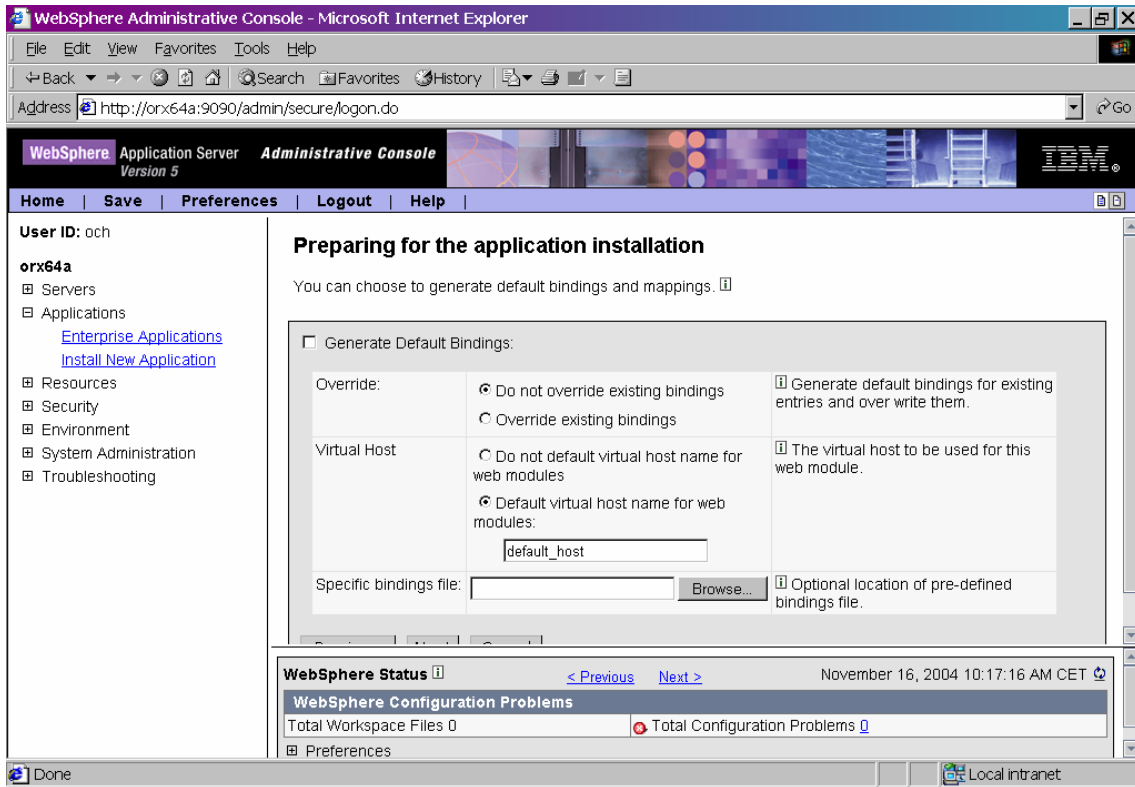
`/usr/fsn/v3r3m0w5/dc4asf/war/dc4asf.war`

Enter the context root, for example `/dc4asf`

Press button [Next](#). The file `dc4asf.war` is now loaded on the server.



Press button [Next](#).



Press button [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

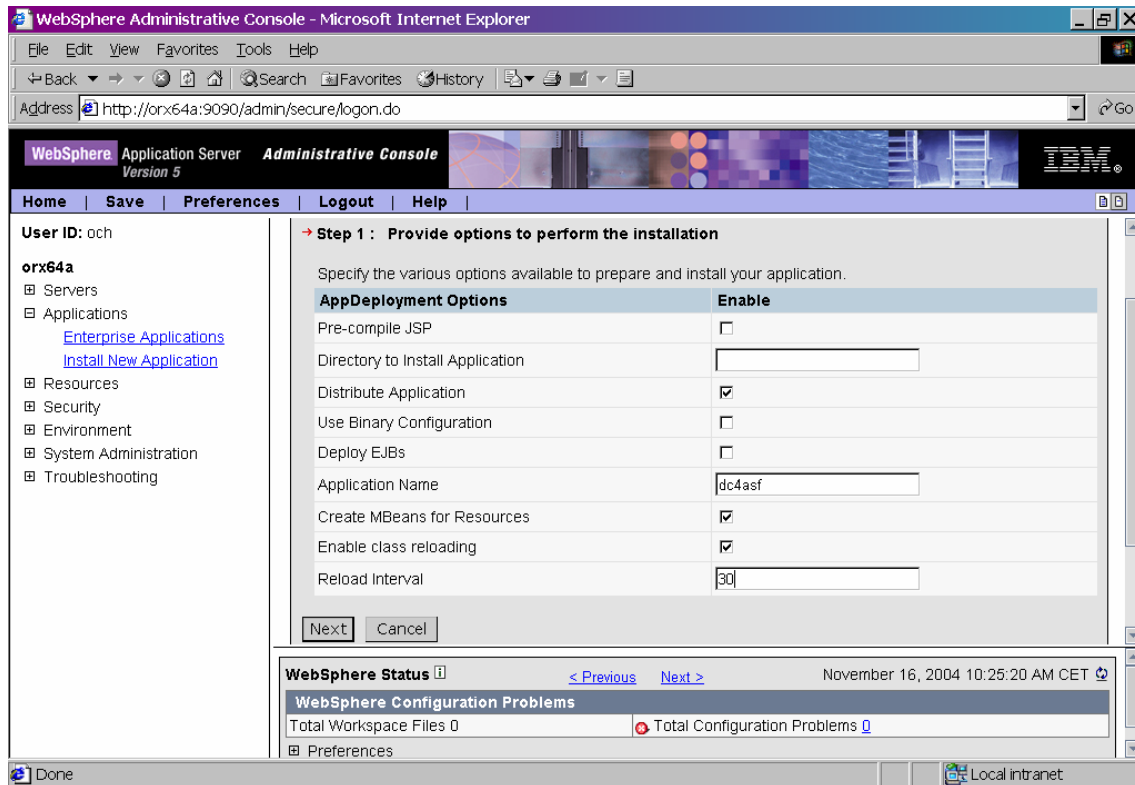
- APP_INSTALL_ROOT is a path map variable which by default is set to
`/usr/WebSphere/AppServer51/installedApps/`
- 'xxxxx' is the cell name and
- 'dc4asf' is the application name.

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. The main content area is titled "Step 1: Provide options to perform the installation". Below this title, there is a table with the following columns: "AppDeployment Options" and "Enable". The table contains the following rows:

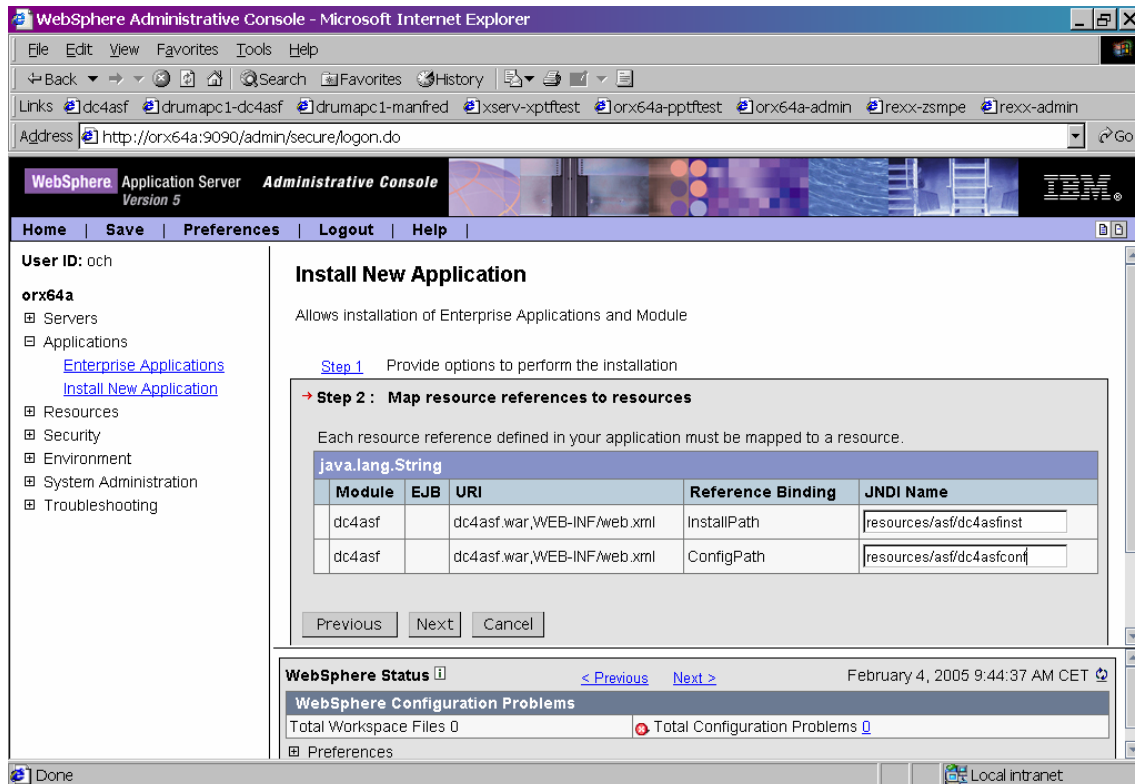
AppDeployment Options	Enable
Pre-compile JSP	<input type="checkbox"/>
Directory to Install Application	<input type="text"/>
Distribute Application	<input checked="" type="checkbox"/>
Use Binary Configuration	<input type="checkbox"/>
Deploy EJBs	<input type="checkbox"/>
Application Name	<input type="text" value="dc4asf"/>
Create MBeans for Resources	<input checked="" type="checkbox"/>
Enable class reloading	<input checked="" type="checkbox"/>
Reload Interval	<input type="text" value="30"/>

At the bottom of the table, there are "Next" and "Cancel" buttons. Below the table, there is a "WebSphere Status" section with navigation links "< Previous" and "Next >". The status bar shows the date and time: "November 16, 2004 10:25:20 AM CET". There is also a "WebSphere Configuration Problems" section with a table showing "Total Workspace Files 0" and "Total Configuration Problems 0".

Press button **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://orx64a:9090/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 "orx64a" expanded to show "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 contains the following text: "Allows installation of Enterprise Applications and Module". Below this, it indicates "Step 1: Provide options to perform the installation" and "Step 2: Map resource references to resources". A note states: "Each resource reference defined in your application must be mapped to a resource." Below the note is a table with the following data:

Module	EJB	URI	Reference Binding	JNDI Name
dc4asf		dc4asf.war,WEB-INF/web.xml	InstallPath	resources/asf/dc4asfinst
dc4asf		dc4asf.war,WEB-INF/web.xml	ConfigPath	resources/asf/dc4asfconf

Below the table are buttons for "Previous", "Next", and "Cancel". At the bottom of the console, there is a "WebSphere Status" section showing "February 4, 2005 9:44:37 AM CET" and a "WebSphere Configuration Problems" section showing "Total Workspace Files 0" and "Total Configuration Problems 0".

Press button **Next** to finish Step 2 and go to Step 3.

Install new application (Step 3)

The screenshot shows the WebSphere Administrative Console interface in a Microsoft Internet Explorer browser window. The address bar displays `http://orx64a:9090/admin/secure/logon.do`. The console header includes the IBM logo and navigation links: Home, Save, Preferences, Logout, and Help. The user is logged in as 'och' on the 'orx64a' server. A left-hand navigation tree lists various administrative areas, with 'Applications' expanded to show 'Enterprise Applications' and 'Install New Application'. The main content area is titled 'Install New Application' and contains the following text: 'Allows installation of Enterprise Applications and Module'. Below this, a list of steps is shown: Step 1 (Provide options to perform the installation), Step 2 (Map resource references to resources), Step 3 (Map virtual hosts for web modules), and Step 4 (Map modules to application servers). Step 3 is the active step, highlighted with a red arrow. It includes a sub-header 'Map virtual hosts for web modules' and a description: '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.' There is a checkbox for 'Apply Multiple Mappings'. Below this is a table with two columns: 'Web Module' and 'Virtual Host'. The table contains one row with 'dc4asf' in the 'Web Module' column and 'default_host' in the 'Virtual Host' column. At the bottom of the step area are 'Previous', 'Next', and 'Cancel' buttons. Below the step area is a 'WebSphere Status' section with '< Previous' and 'Next >' links, and a timestamp of 'November 16, 2004 10:31:22 AM CET'. Below that is a 'WebSphere Configuration Problems' section showing 'Total Workspace Files 0' and 'Total Configuration Problems 0'. The browser's status bar at the bottom shows 'Done' and 'Local intranet'.

No updates are required for Step 3. Press button [Next](#) to go to Step 4.

Install new application (Step 4)

The screenshot shows the WebSphere Administrative Console in a Microsoft Internet Explorer browser window. The address bar shows the URL `http://orx64a:9090/admin/secure/logon.do`. The page title is "WebSphere Administrative Console" and the version is "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**

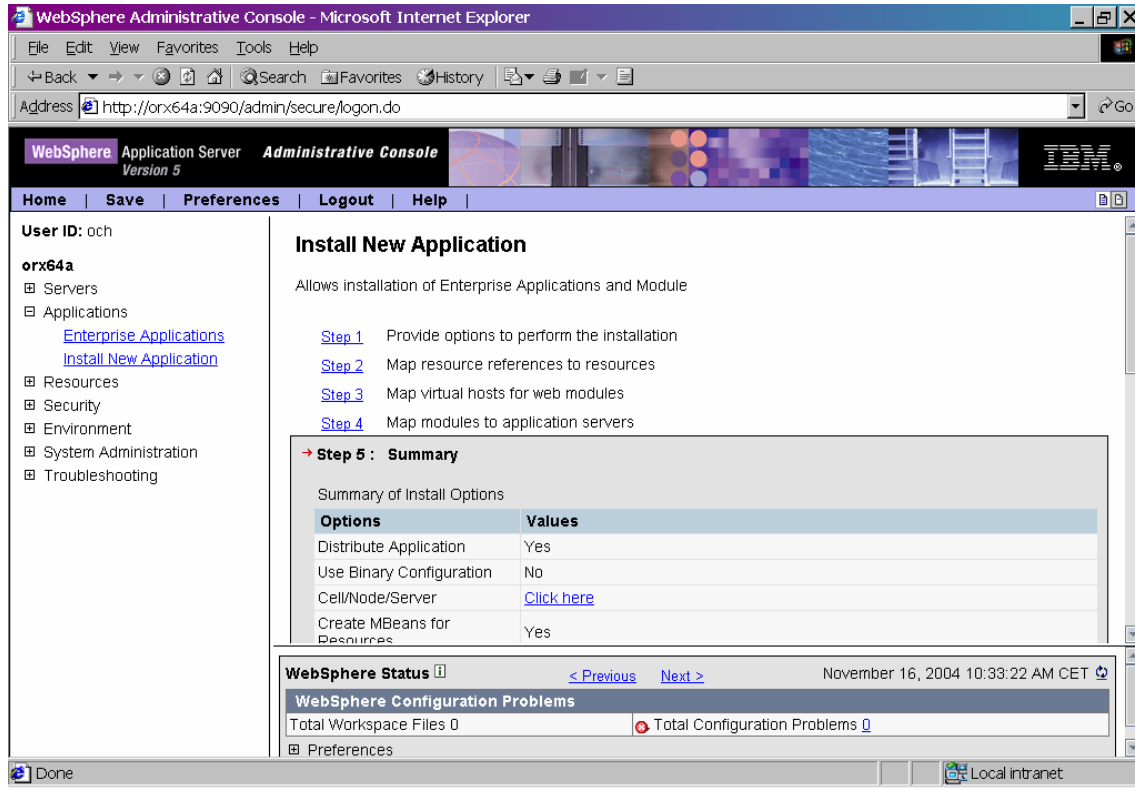
Step 4 instructions: "Specify the application server where you want to install modules contained in your application. Modules can be installed on the same server or dispersed among several servers." A text input field contains the server name: `WebSphere:cell=orx64a,node=orx64a,server=server1`. Below this is a table of clusters and servers:

<input type="checkbox"/>	Module	URI	Server
<input type="checkbox"/>	dc4asf	dc4asf.war,WEB-INF/web.xml	WebSphere:cell=orx64a,node=orx64a,server=server1

At the bottom of the console, the "WebSphere Status" section shows the date and time: "November 16, 2004 10:32:22 AM CET". The "WebSphere Runtime Messages" section displays: "Total All Messages: 505" with a red circle icon for "1 new, 1 total", a yellow triangle icon for "0 new, 0 total", and a green square icon for "504 new, 504 total". A "Clear All" button is also present.

No updates are required for Step 4. Press button [Next](#) to go to Step 5.

Install new application (Step 5)



The screenshot shows the WebSphere Administrative Console in Microsoft Internet Explorer. The browser address bar shows `http://orx64a:9090/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', 'orx64a', and sub-items like 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
Create MBeans for Resumes	Yes

At the bottom of the console, there is a 'WebSphere Status' section with '< Previous' and 'Next >' links, and a 'WebSphere Configuration Problems' section showing 'Total Workspace Files 0' and 'Total Configuration Problems 0'. The status bar at the bottom indicates 'Done' and 'Local intranet'.

Check the settings on this page and press button **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

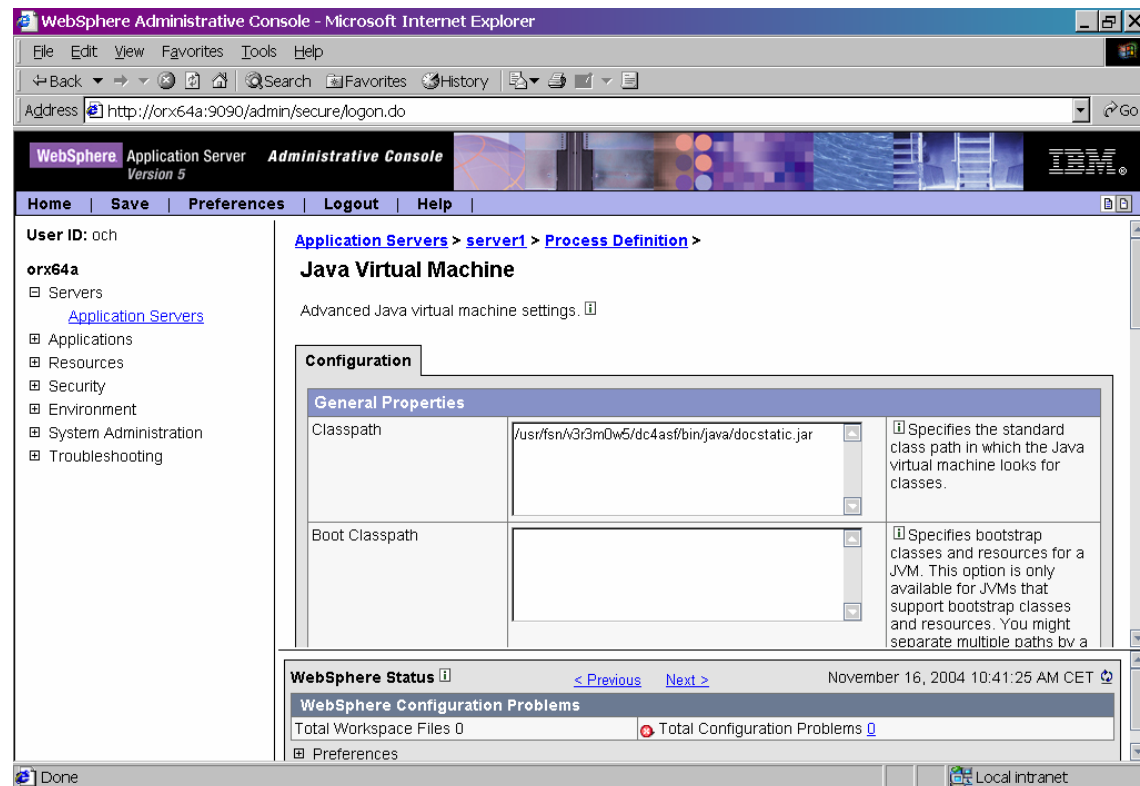
Open [Applications](#) > [Enterprise Application](#), select your dc4asf application, and select **Start** to start the application.

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](#) > [Java Virtual Machine](#)

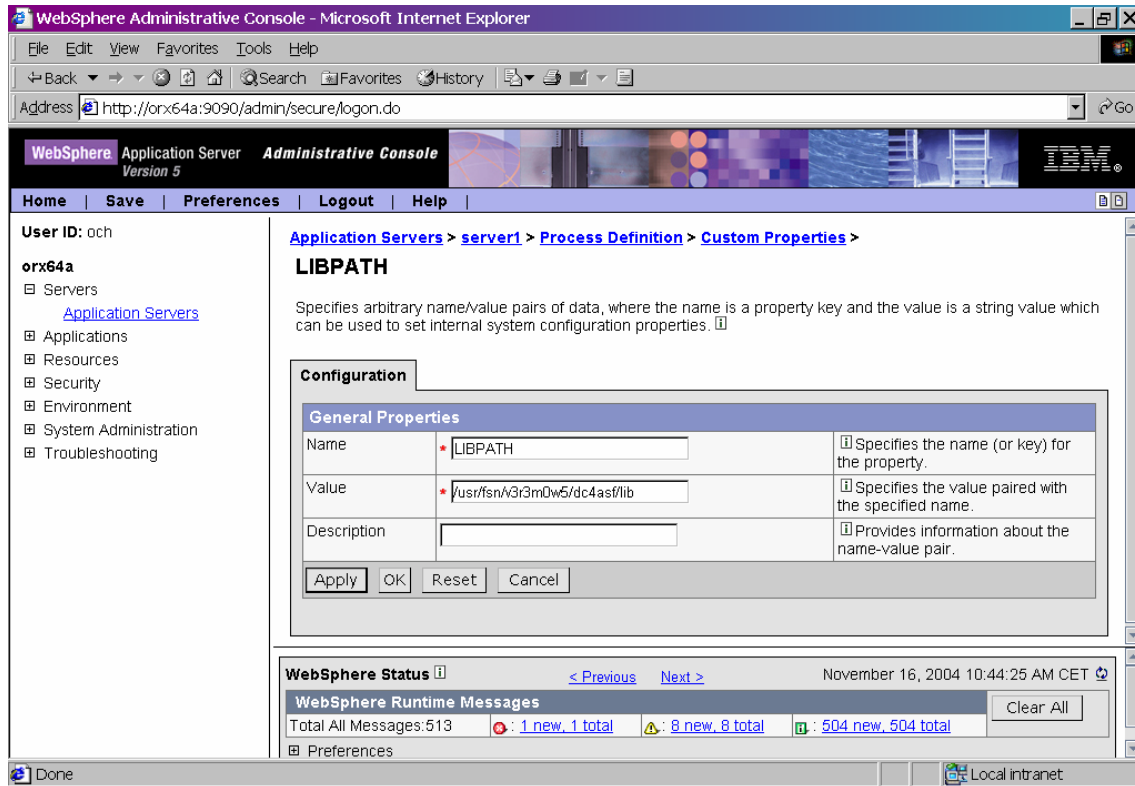
Add the file *docstatic.jar* delivered with DC4ASF to the Classpath (/usr/fsn/v3r3m0w5/bin/java/docstatic.jar).



Press button [Apply](#) first and then press button [OK](#).

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

Create the variable **LIBPATH**. Set its value to the Document Connect for ASF shared library path (/usr/fsn/v3r3m0w5/dc4asf/bin).



Press button **Apply** first and then press button **OK**.

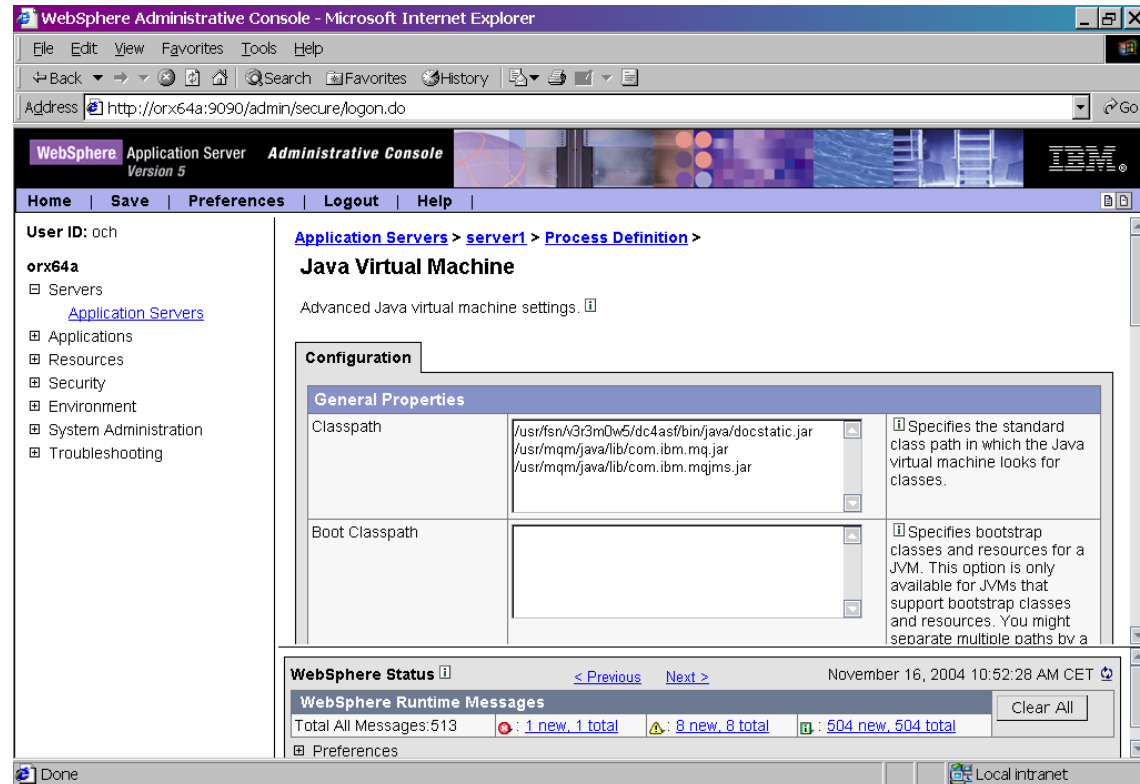
Save the changes to the master configuration.

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](#) > [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/mqm/java/lib/com.ibm.mq.jar)

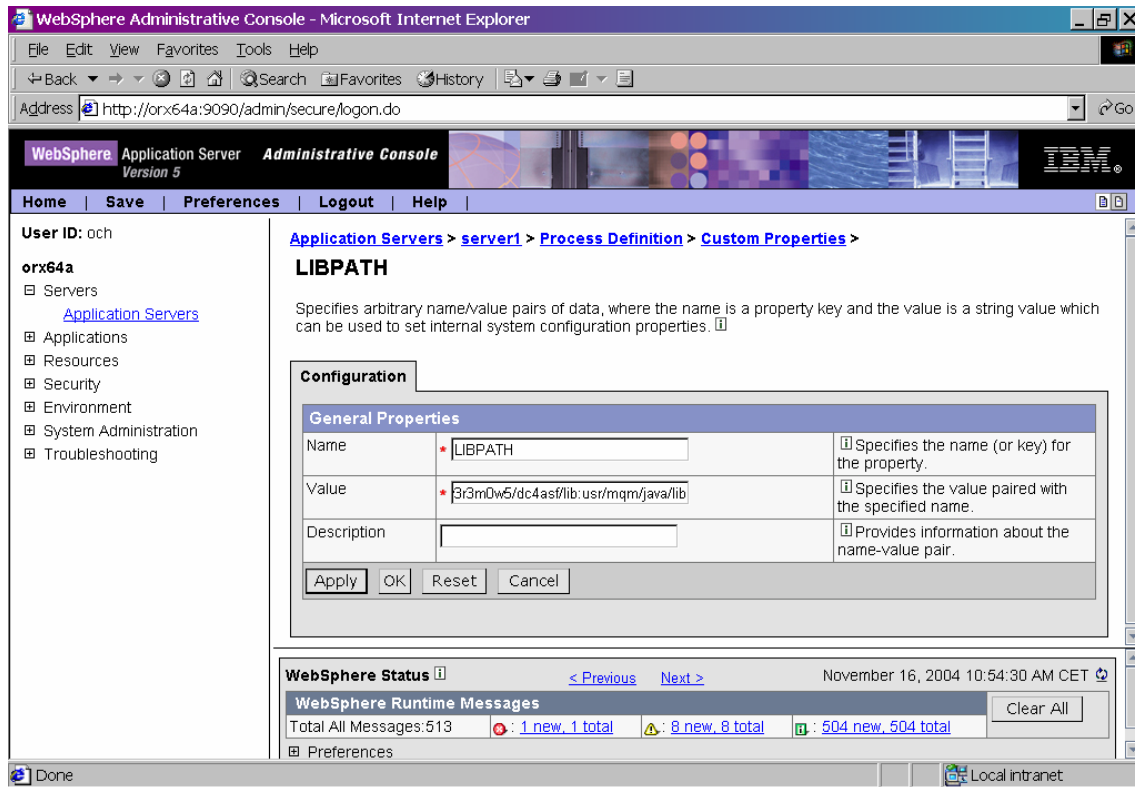


Press button [Apply](#) first and then press button [OK](#).

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

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

Note: Separate the path values with a semicolon.



Press button **Apply** first and then press button **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 "mod_ibm_app_server_http.so"

Make sure you have installed the Shared Object (SO) library [mod_ibm_app_server_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](#)

Press button **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" 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" Name="/dc4asf/servlet/*"/>
```

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

```
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/html/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/xsl/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/javascript/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/java/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/css/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/preview/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFServerConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFNetworkConfigServlet/*"/>
<Uri AffinityCookie="JSESSIONID" Name="/dc4asf/DocASFNetworkConfigProcessServlet/*"/>
<Uri AffinityCookie="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:

```
Alias /dc4asf/           "/usr/fsn/v3r3m0w5/dc4asf/www/"
Alias /dc4asf/transfer/ "/usr/fsn/v3r3m0w5/dc4asf/www/transfer/"
Alias /dc4asf/help/     "/usr/fsn/v3r3m0w5/dc4asf/www/help/"
Alias /dc4asf/helpconfig/ "/usr/fsn/v3r3m0w5/dc4asf/www/helpconfig/"
Alias /dc4asf/images/  "/usr/fsn/v3r3m0w5/dc4asf/www/images/"
Alias /dc4asf/custom/  "/usr/fsn/v3r3m0w5/dc4asf/www/custom/"
Alias /dc4asf/samples/ "/usr/fsn/v3r3m0w5/dc4asf/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 host reply queue (optional), host queue manager (optional), AIX 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.

Notes:

- The password specified will be encrypted and stored in file “hnp.txt” in the /config subdirectory.
- If you do not specify the host reply queue (which is a remote queue in z/OS which corresponds to the server output queue) and the host queue manager, you need a transmission queue in z/OS with the queue manager name in AIX (PASF33Q).

Host nickname	Host connection data
sc1I7mq	Connection type: IMSMQ
	Conversational IMS Processing: <input type="checkbox"/>
	Host reply queue: <input type="text"/>
	Host queue manager: <input type="text"/>
	Queue manager: PASF33Q
	Server out-queue: REPLY.ASF33I7
	Server in-queue: ASF33I7.ALIAS
	XCode: SC1E
	User ID: IMSuser
	New Password: *****

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

8 Installing a second Application

The steps above describe how to install the application dc4asftest in WebSphere Application Server.

IBM recommends to generate a second application instance of Document Connect for ASF for use by administrators, for example “[dc4asftest](#)”.

To create a second instance, execute the script file “docinstusr.sh” available in directory [/usr/lpp/fsn_v3r3m0w5/IBM](#)

When being prompted specify an alternate installation path, for example

[dc4asftest](#)

After successful completion perform the following steps using the WebSphere Administrative 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/dc4asfconfsttest
Path	/usr/fsn/v3r3m0w5/dc4asftest /config/DocConfiguration.xml

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

In 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 path for context root:

[/dc4asftest](#)

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

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

resources/asf/dc4asfintsttest

resources/asf/dc4asfconfsttest

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

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

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

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

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

```
Alias /dc4asf/           "/usr/fsn/v3r3m0w5/dc4asf/www/"
Alias /dc4asf/transfer/ "/usr/fsn/v3r3m0w5/dc4asf/www/transfer/"
Alias /dc4asf/help/     "/usr/fsn/v3r3m0w5/dc4asf/www/help/"
Alias /dc4asf/helpconfig/ "/usr/fsn/v3r3m0w5/dc4asf/www/helpconfig/"
Alias /dc4asf/images/  "/usr/fsn/v3r3m0w5/dc4asf/www/images/"
Alias /dc4asf/custom/  "/usr/fsn/v3r3m0w5/dc4asf/www/custom/"
Alias /dc4asf/samples/  "/usr/fsn/v3r3m0w5/dc4asf/www/samples/"

Alias /dc4asftest/     "/usr/fsn/v3r3m0w5/dc4asftest/www/"
Alias /dc4asftest/transfer/ "/usr/fsn/v3r3m0w5/dc4asftest/www/transfer/"
Alias /dc4asftest/help/ "/usr/fsn/v3r3m0w5/dc4asftest/www/help/"
Alias /dc4asftest/helpconfig/ "/usr/fsn/v3r3m0w5/dc4asftest/www/helpconfig/"
Alias /dc4asftest/images/ "/usr/fsn/v3r3m0w5/dc4asftest/www/images/"
Alias /dc4asftest/custom/ "/usr/fsn/v3r3m0w5/dc4asftest/www/custom/"
Alias /dc4asftest/samples/ "/usr/fsn/v3r3m0w5/dc4asftest/www/samples/"
```

9 Applying Maintenance

Use SMIT or SMITTY to apply the PTF containing new tar file(s). SMIT/SMITTY will copy the tar file(s) into directory

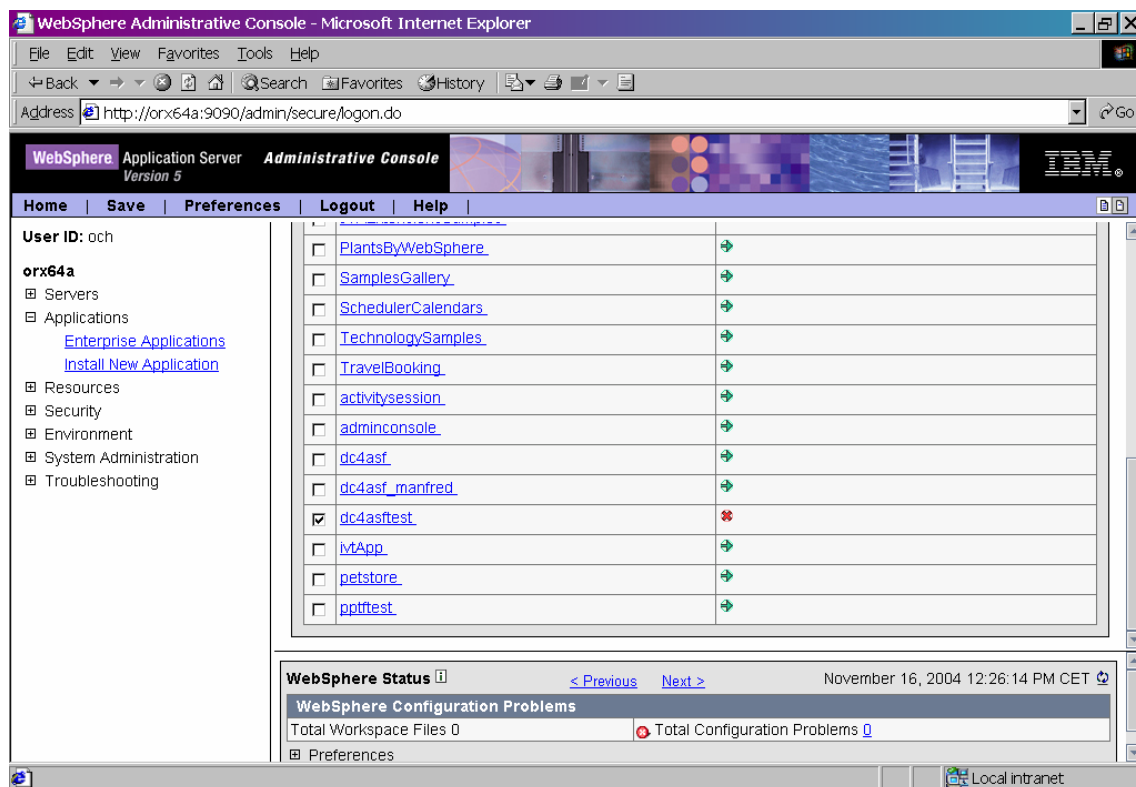
`/usr/lpp/fsn_v3r3m0w5/IBM`

Use the script file “docinstusr.sh” available in directory `/usr/lpp/fsn_v3r3m0w5/IBM` to apply the tar file(s) 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:

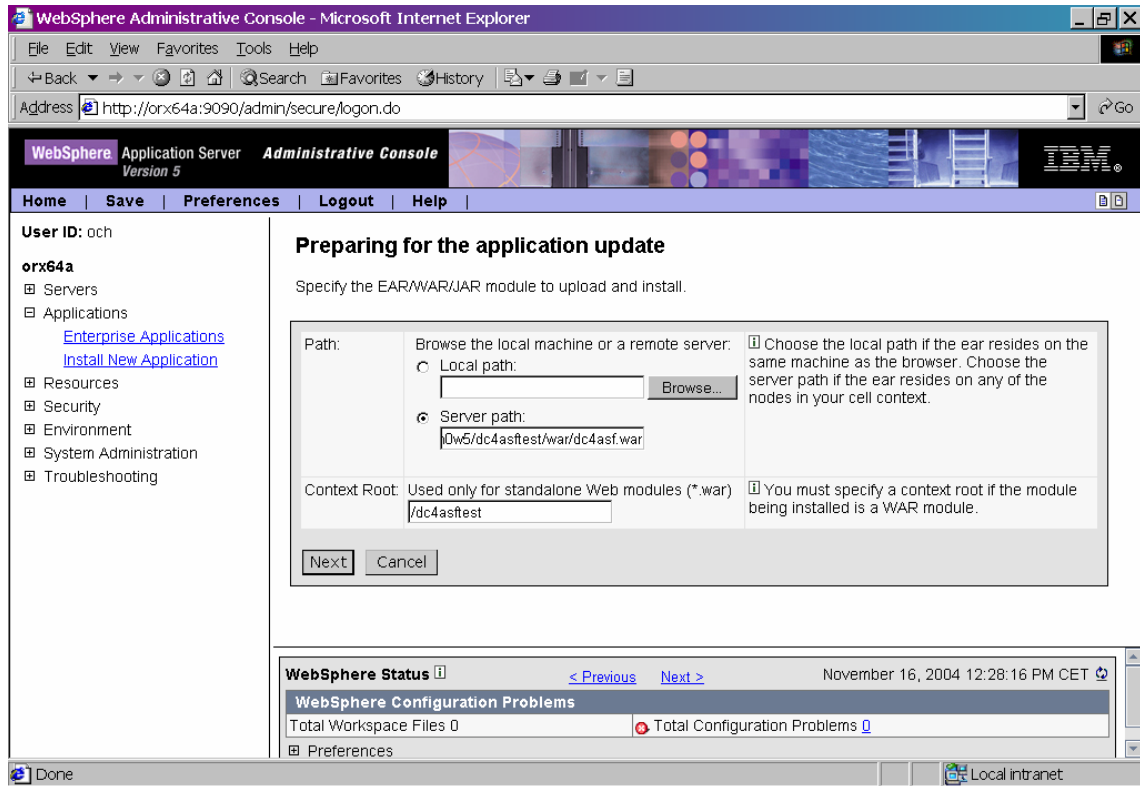
`/usr/fsn/v3r3m0w5/dc4asftest/war/dc4asf.war`

Enter the context root: `/dc4asftest`

Note:

The context root must be the same as the context root specified 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`:

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



On each of the next panels press button **Next** and finally press button **Finish**. After the update of the application has been completed save the master configuration.

Open [Applications](#) > [Enterprise Application](#) and select your application dc4asftest. Select **Stop** and then select **Start** to restart the application.