ASF 3.3 with CICS
Document Connect for ASF

Installation on AIX Server
Using WebSphere Application Server V6

Server-to-Host Connection using
CICS Transaction Gateway

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1 Prerequisites

1. WebSphere Application Server (WAS) V6 has been installed, is operational, and has been started.

   Note: The installation path is assumed to be
   /usr2/WebSphere/AppServer60

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/IBMHttpServer1328

3. The CICS Transaction Gateway (Version 5.1 or later) has been installed on z/OS and the connections to the host (CICS) are available. The CICS ECI Resource Adapter (cicseci.rar file coming with the CICS Transaction gateway) is available on AIX.

4. Document Connect for ASF (DC4ASF) war file has been downloaded.

   Note: The path where the war file dc4asf.war resides is assumed to be
   /usr/swrepository/dc4asf/was60/war/1.2.2.1/

2 Installation of the application

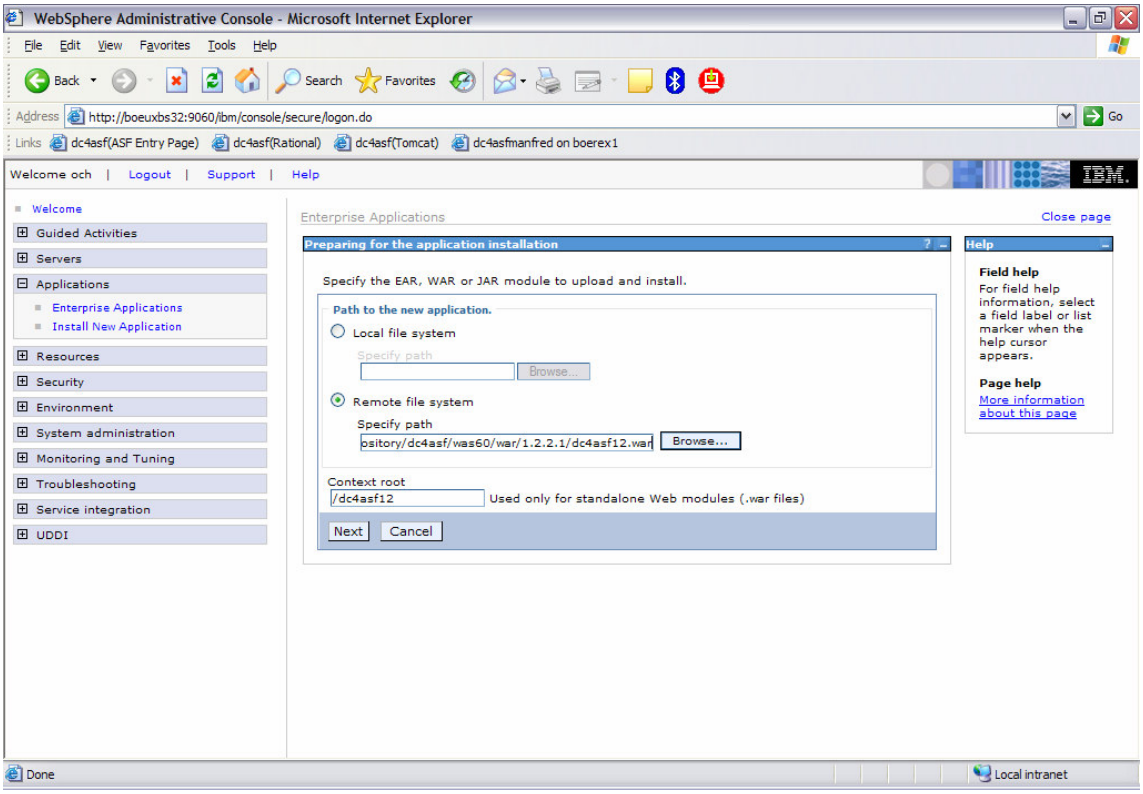
Preparing for the application installation

Open Application > Install New Application

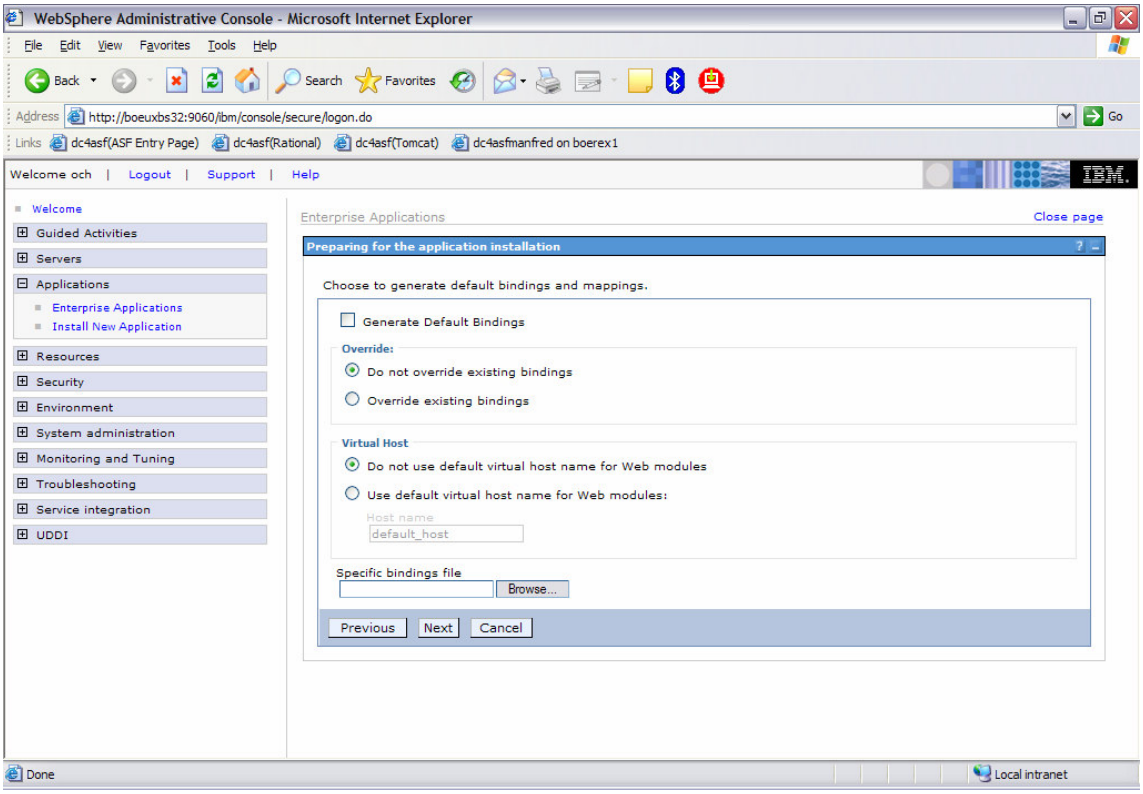
Enter the path where the DC4ASF war file is located:

/usr/swrepository/dc4asf/was60/war/1.2.2.1/dc4asf12.war

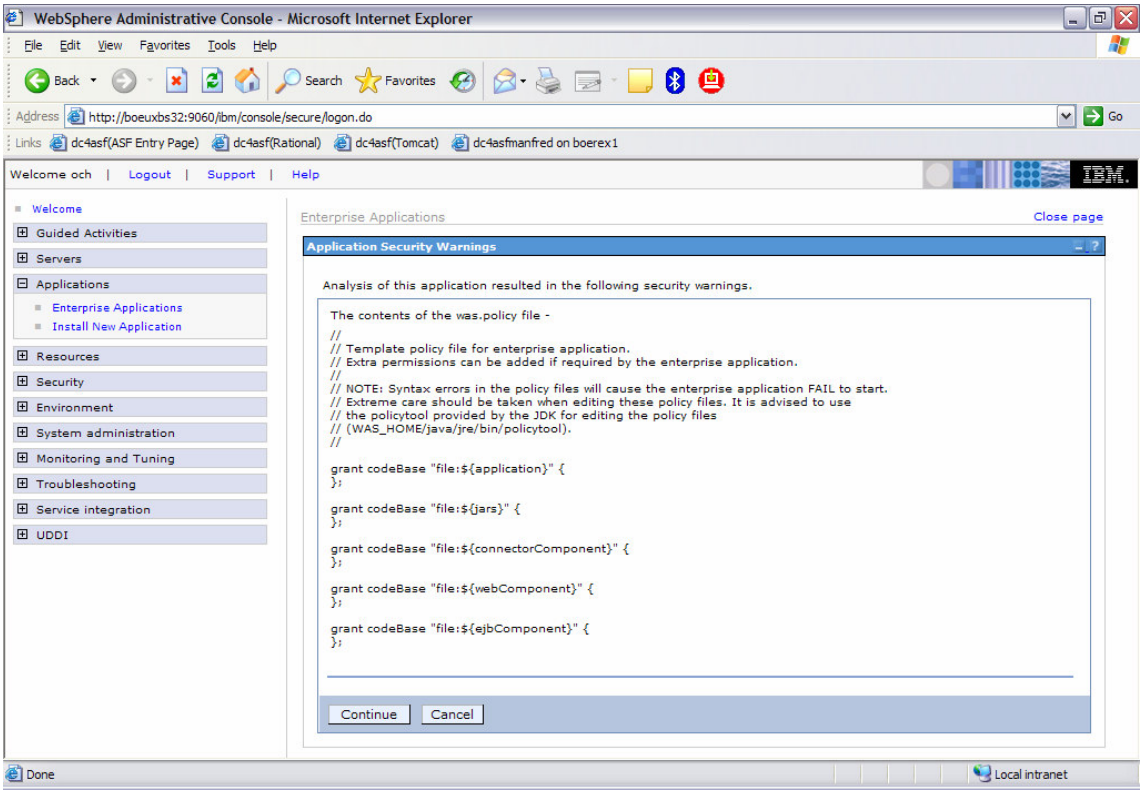
Enter the context root, for example " /dc4asf12"



Select Next. The file "dc4asf12.war" is now loaded on the server.



Select Next.



Select Continue.

Install new application (Step 1)

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

Directory to install application:

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

APP_INSTALL_ROOT/xxxxx/dc4asf12.ear

where

- APP_INSTALL_ROOT is a path map variable which for example is set to

  /usr2/WebSphere/AppServer60/profiles/server1/installedApps/

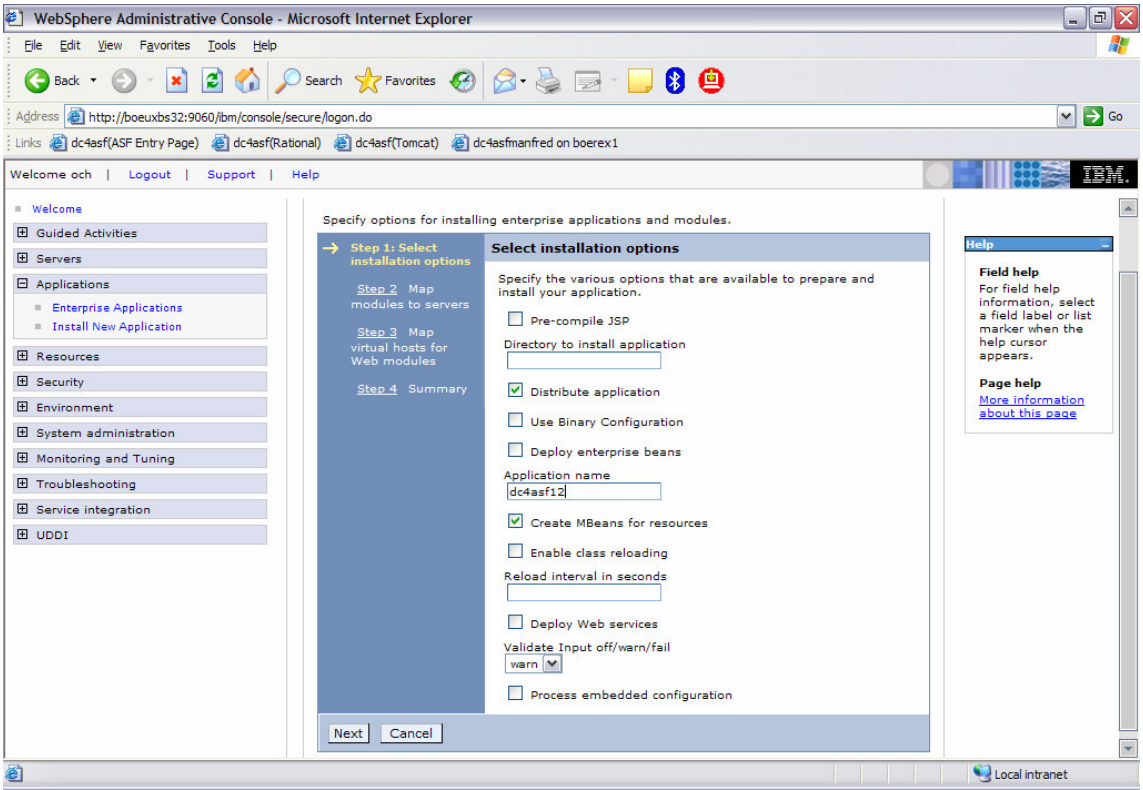
- 'xxxxx' is the cell name and
- 'dc4asf12' is the application name.

Application Name:

Specify a unique name, for example 'dc4asf12'.

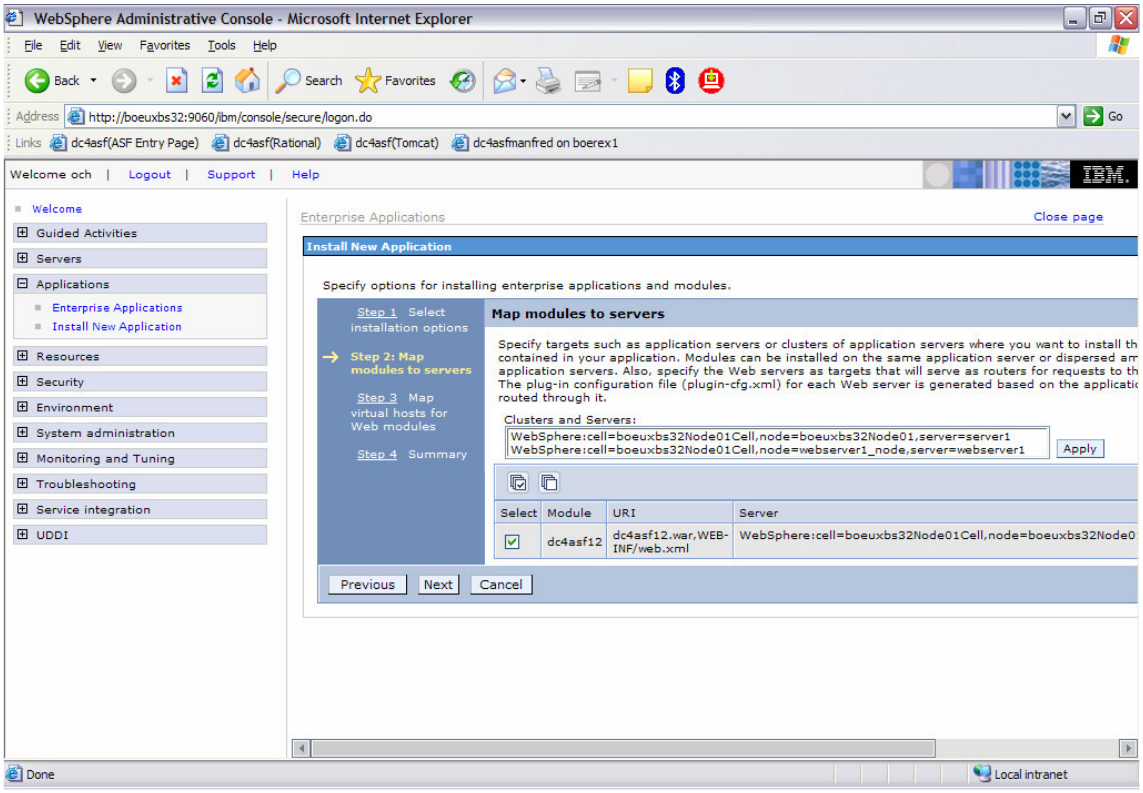
Class Reloading:

Do not enable class reloading.



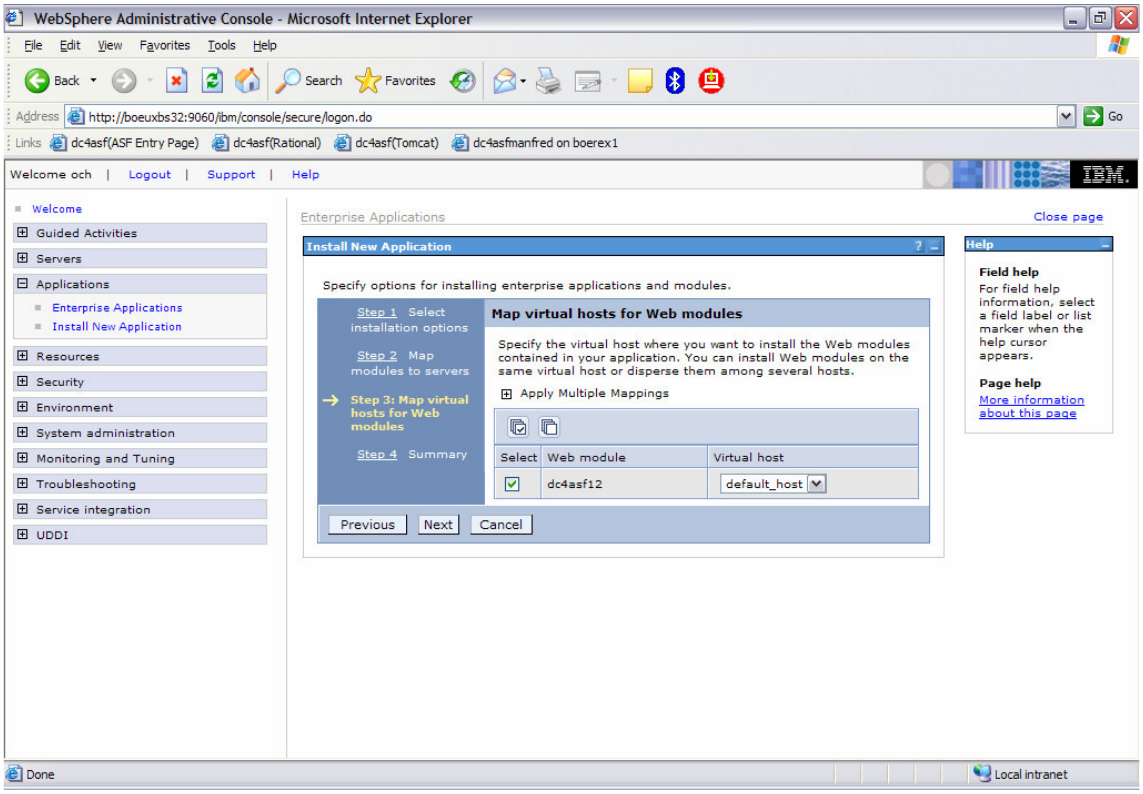
Select Next to finish Step 1 and go to Step 2.

Install new application (Step 2)



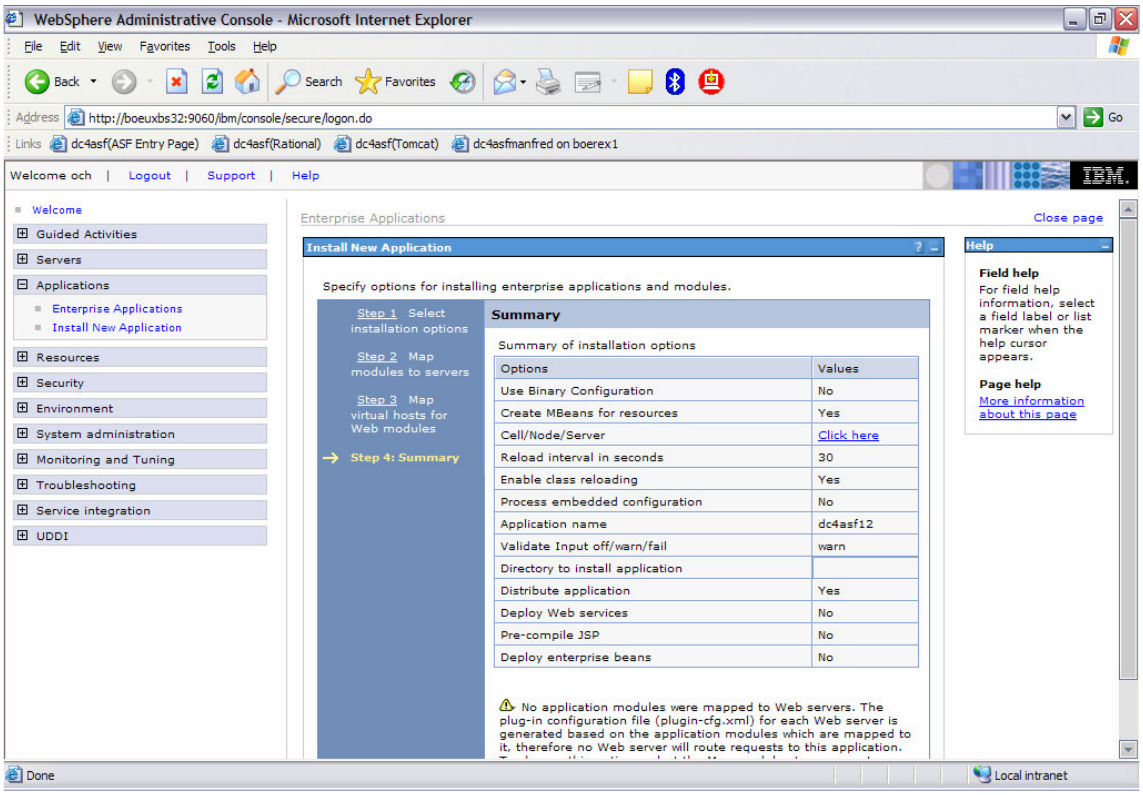
Select Next to finish Step 2 and go to Step 3.

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)



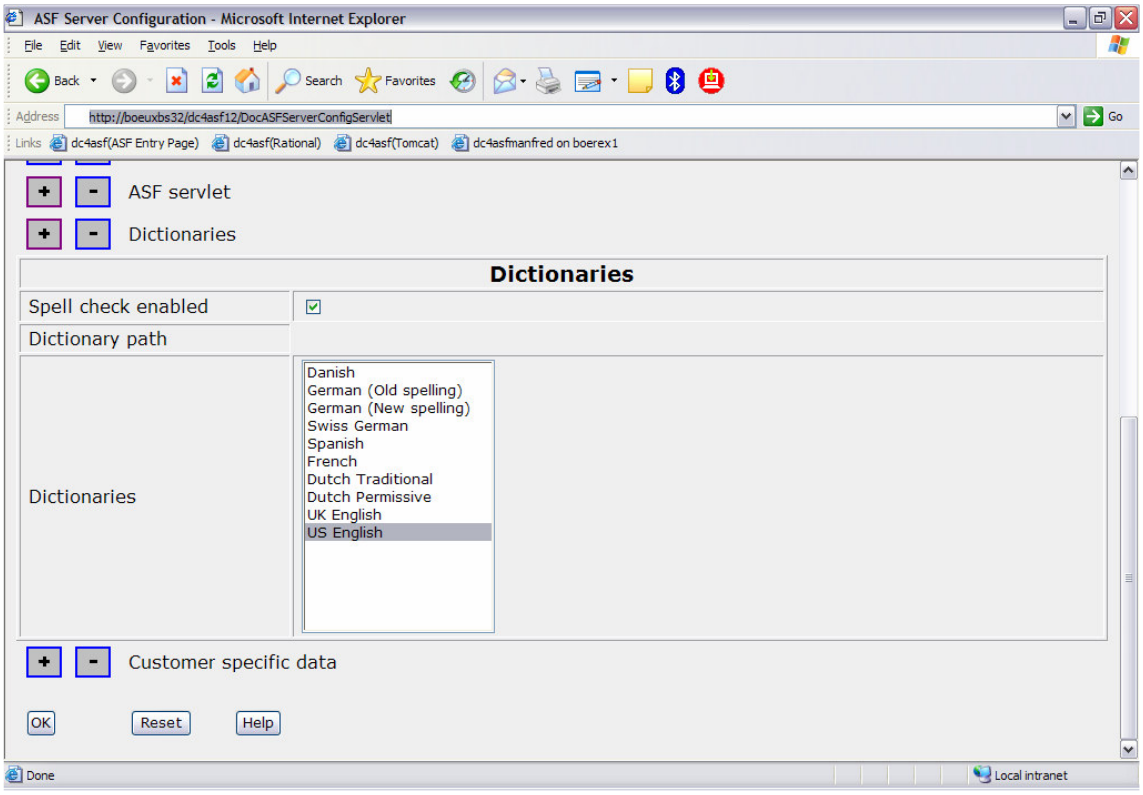
Check the settings on this page and select Finish to start the installation of your application. When the installation of the application has been completed it must be saved in the master configuration.

Start the application

Open Applications > Enterprise Application, select your dc4asf12 application and select Start to start the application.

3 Activation of Dictionaries for Spellchecking

To activate the dictionaries for spellchecking invoke the servlet application “DocASFServerConfigServlet“, using the Microsoft Internet Explorer. Ask the ASF administrator(s) which dictionaries should be active.



Select OK.

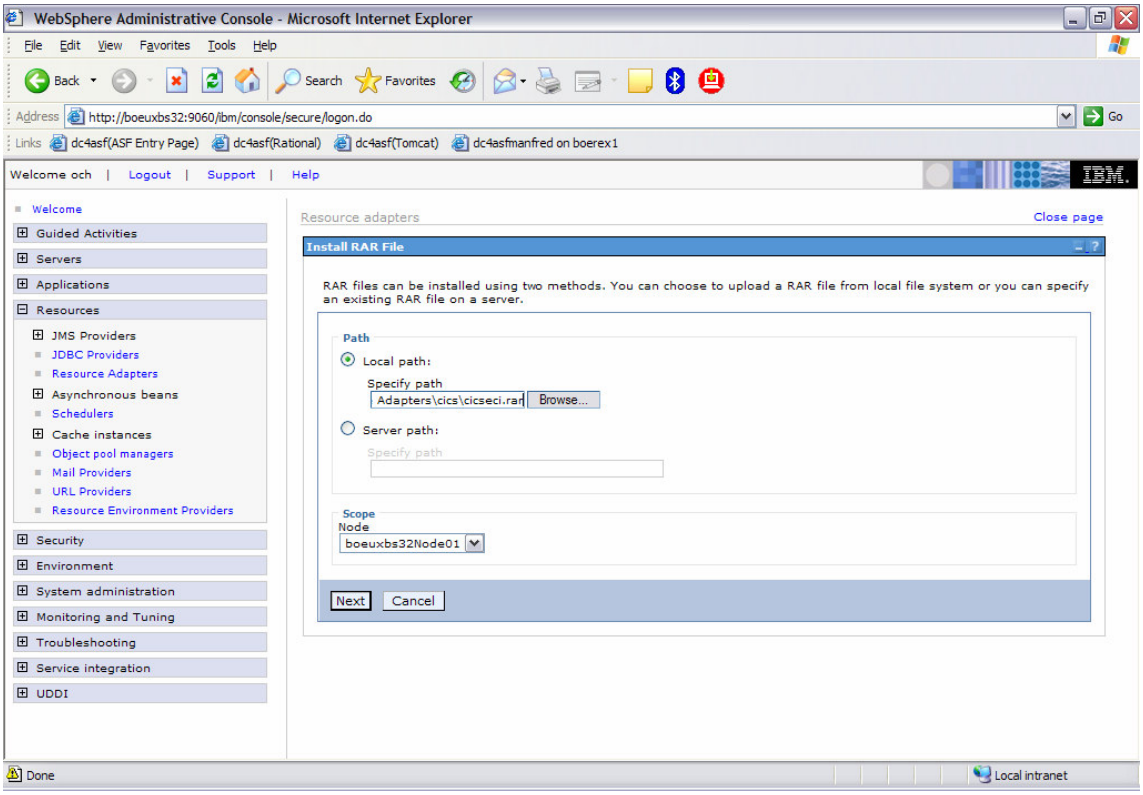
Stop and Start your application using the WebSphere Administrative Console.

4 Enable CICS Transaction Gateway Connection

To enable the CICS Transaction Gateway connection between server and host you must deploy the CICS ECI Resource Adapter (RAR file) coming with the CICS Transaction Gateway 5.1 or later.

Open Resources > Resource Adapters > *Install RAR File*

Enter the location of the CICS ECI Resource Adapter
(for example E:\Resource Adapters\cics\cicseci.rar).



Press button Next first, enter a name for example “CICS ECI Resource Adapter” and then press button OK.

Save the changes to the master configuration.

After installing the resource adapter, you must stop and restart WebSphere Application Server.

5 Web Server Changes

Using the IBM HTTP Server

5.1.1 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.

Generate the configuration file "plugin6-cfg.xml"

Generate the plugin configuration file "plugin6-cfg.xml" using the WebSphere Administrative Console. For more information refer to

http://publib.boulder.ibm.com/infocenter/ieduasst/v1r1m0/index.jsp

chapter "Create Web Server Definition and Map Applications"

5.1.2 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) Verify that the Shared Object (SO) library points to the configuration file “plugin6-cfg”:

```
LoadModule was_ap20_module /usr2/WebSphere/Plugins60/bin/mod_was_ap20_http.so
WebSpherePluginConfig
/usr2/WebSphere/AppServer60/profiles/server1/config/cells/boeuxbs32Node01Cell/nodes/webserver1_node/servers/webserver1/plugin-cfg.xml
```

c) If you changed the file “httpd.conf” then restart the HTTP server to activate the changes.

Using the Microsoft Internet Information Server (IIS)

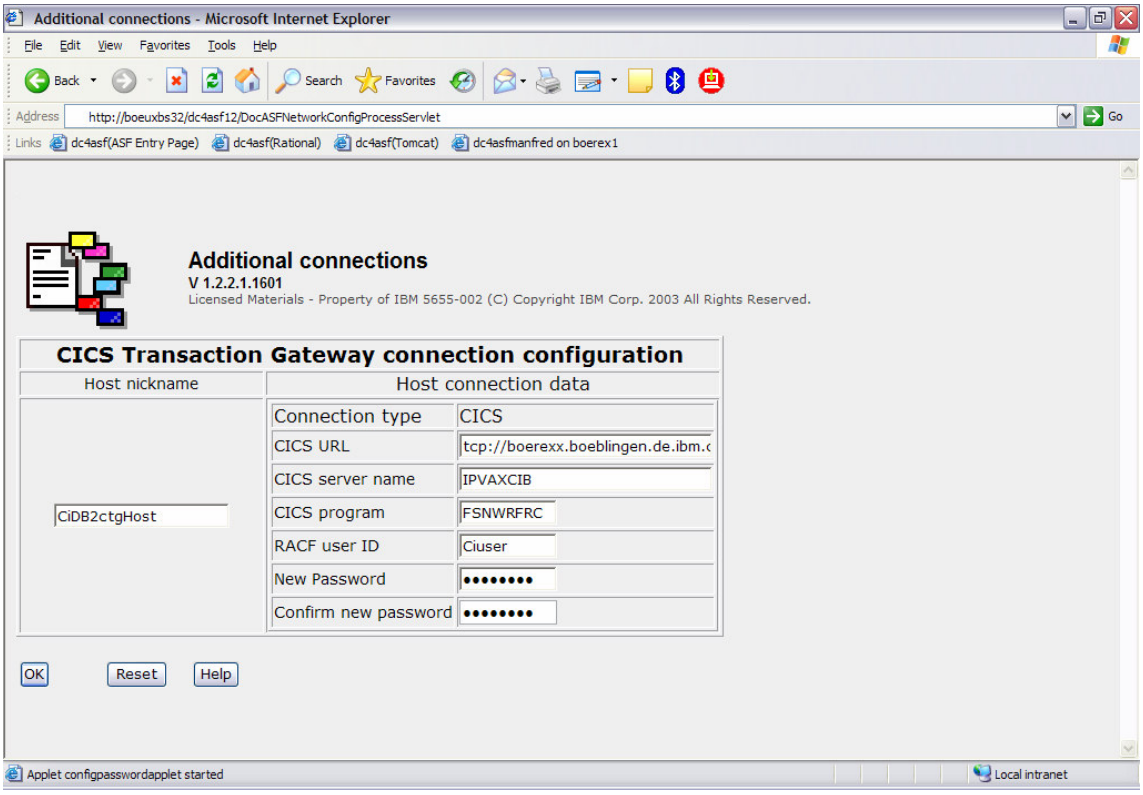
6 Configure the Connections

To define the server-host connections in DocNetworkConfiguration.xml invoke the servlet application "DocASFNetworkConfigServlet", using the Microsoft Internet Explorer.
Specify the URL where the CICS Transaction Gateway resides (TCP/IP address and the port, for example tcp://boerexx.boeblingen.de.ibm.com:2006), the CICS server name as defined in the CICS Transaction Gateway, the CICS program name (must be FSNWRFRC), the defined User ID used for CICS logon and the corresponding password.

Press button OK to save your changes.

Note:

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



Stop and Start your application in the WebSphere Administrative Console.

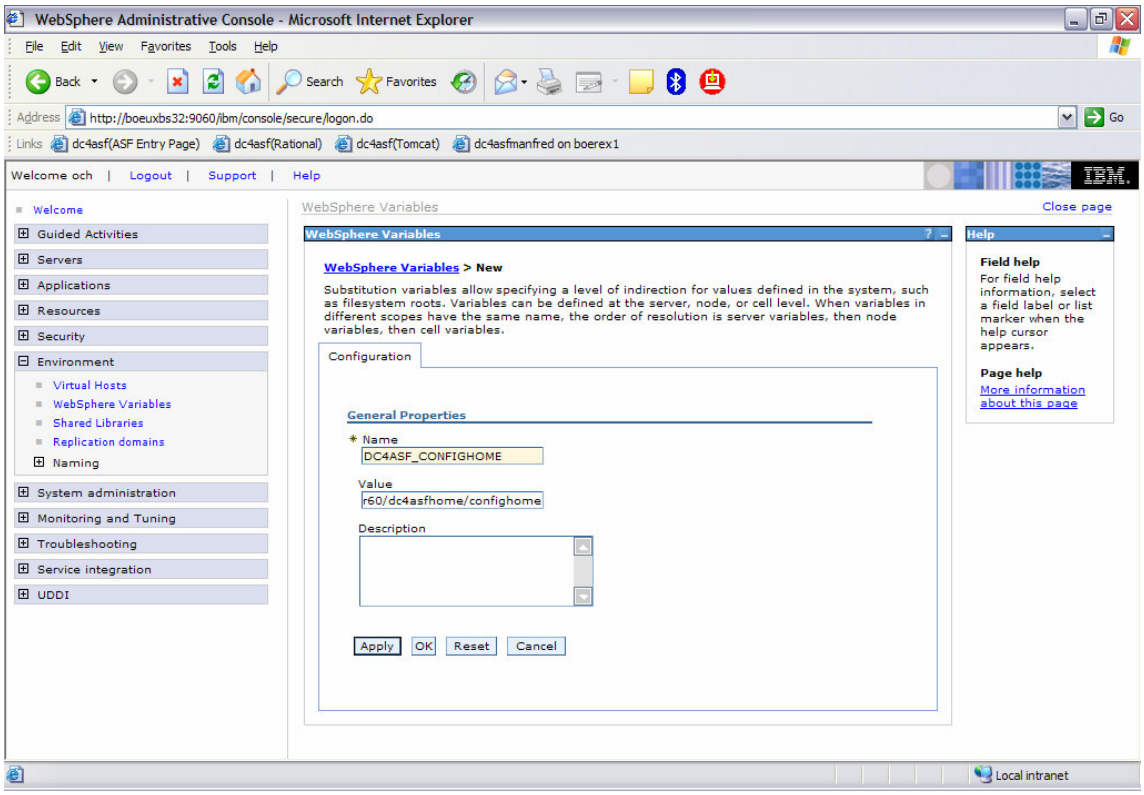
7 Single Configuration File

If you are running DC4ASF in a multi-node environment or you have more than one instance of DC4ASF but you want to have only one set of configuration files, perform the following steps:

- Create two WebSphere variables

  Open Environment > WebSphere Variables > New

  Create the variables DC4ASF_CONFIGHOME and DC4ASF_DATAHOME and set the values for example to /usr2/WebSphere/AppServer60/dc4asfhome/confighome and /usr2/WebSphere/AppServer60/dc4asfhome/datahome



- Create the three directories

  $(CONFIG_HOME) like /usr2/WebSphere/AppServer60/dc4asfhome/confighome
  $(DATA_HOME)/log like /usr2/WebSphere/AppServer60/dc4asfhome/datahome/log
  $(DATA_HOME)/preview like /usr2/WebSphere/AppServer60/dc4asfhome/datahome/preview

- Copy the configuration files

  DocConfiguration.xml
  DocNetworkConfiguration.xml
  DocXSLConversion.xml
  DocSpellCheckConfiguration.xml
  hnp.txt

  From $(APP_INSTALL_ROOT)/boeuxbs32Node01Cell/dc4asf12.ear/dc4asf12.war/internals/config
  to $(CONFIG_HOME)

- Change the configuration.xml as follows:

```
<Network>
        <ConfigFile>$(CONFIG_HOME)/DocNetworkConfiguration.xml</ConfigFile>
</Network>

<XSLConversion>
  <HTMLPath>xsl</HTMLPath>
        <ConfigFile>$(CONFIG_HOME)/DocXSLConversion.xml</ConfigFile>
</XSLConversion>

<Logging enable="Y">
        <GenericName>$(DATA_HOME)/log/logfile</GenericName>
        <Extension>.log</Extension>
        <NumberOfGenerations>10</NumberOfGenerations>
        <Filesize>3096</Filesize>
        <Recordlength>330</Recordlength>
</Logging>

<Tracing enable="Y" sessiontrace="N">
        <GenericName>$(DATA_HOME)/log/trcfile</GenericName>
        <Extension>.trc</Extension>
        <Recordlength>3300</Recordlength>
```

8 Protect access to the Configuration Servlets

To restrict the access to the configuration servlets for DC4ASF two prerequisites must be met:

- "Global Security" of the WebSphere Application Server (WAS) is enabled.

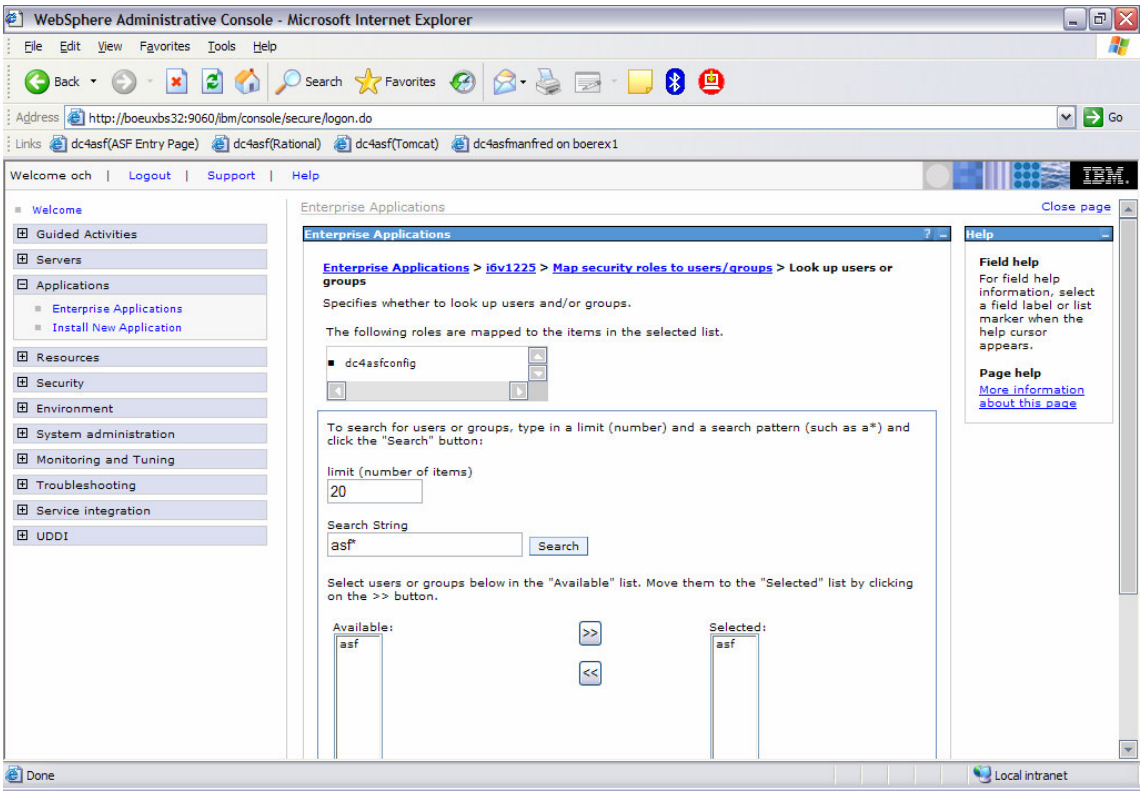
  For more information refer on "Global Security" visit the online help of the WebSphere Application Server.

- At least DC4ASF maintenance level 1.2.2.5 is installed.

If the prerequisites are met, follow the steps below:

Open Applications > Enterprise Applications > *dc4asf12* > *Additional properties* > *Map security roles to users/groups*

Select the role "dc4asfconfig" and click the button Lookup users. Type in a limit and a search pattern for users and click the button Search. Select the users and click on the button with the arrows to move them to the "Selected" list. Press OK. Then click the button Lookup groups. Type in a limit and a search pattern for groups and click the button Search. Select those groups to whom the selected users belong to and click on the button with the arrows to move them to the "Selected" list. Press OK. Press again OK.



Save the changes to the master configuration, then Stop and Start the WebSphere Application Server.

To verify the successful implementation of security launch both the DC4ASF configuration servlet DocASFServerConfigServlet and the DC4ASF network configuration servlet DocASFNetworkConfigServlet. You will be prompted to enter your user ID and password.

9 AFP Resources

To make the AFP resources (page segments and overlays) available on the server for resolution during “Print Preview” requests process perform the following steps:

- Copy the page segments from the host system (for example via ftp) into the directory

  $(APP_INSTALL_ROOT)/boeuxbs32Node01Cell/dc4asf12.ear/dc4asf12.war/AFPResources/pseg

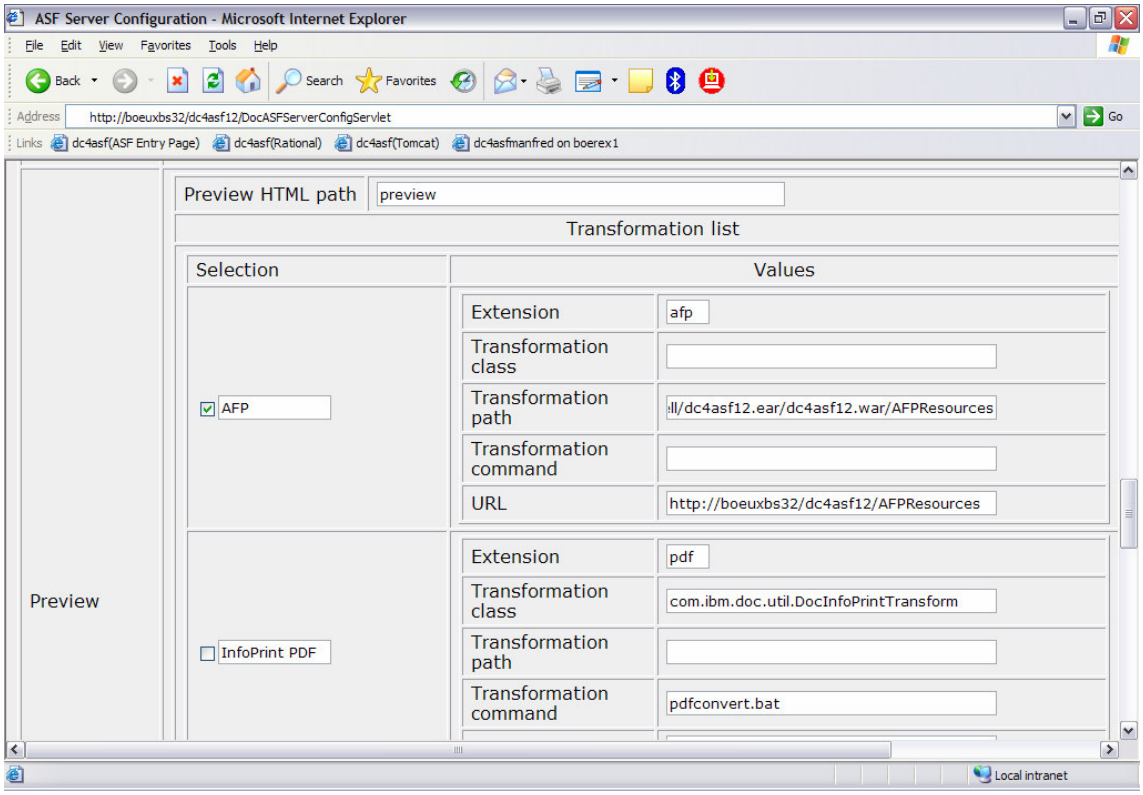
  The page segments must have the extension **“psg”** (lower case and the names must be in upper case).

- Copy the overlays from the host system (for example via ftp) into the directory

  $(APP_INSTALL_ROOT)/boeuxbs32Node01Cell/dc4asf12.ear/dc4asf12.war/AFPResources/ovl

  The overlays must have the extension **“oly”** (lower case and the names must be in upper case).

- To define the server URL in DocConfiguration.xml invoke the servlet application “DocASFServerConfigServlet“, using the Microsoft Internet Explorer. Specify your transformation path and the server URL in the Preview AFP Section.



Press button OK to save your changes.

10 Installing a second Application

The steps above describe how to install the application dc4asf12 in WebSphere Application Server.

IBM recommends that you generate a second application instance of Document Connect for ASF for use by administrators, for example "dc4asf12test".

1. Perform the steps described in "Installation of the application" with the following changes:

   In the paragraph "Preparing for the application installation" specify the following context root:

   /dc4asf12test

   In the paragraph "Install new application (Step 1)", use "dc4asftest12" as the application name.

2. Perform the steps described in "Configure the Connections"

11 Applying Maintenance

Download the PTF containing a new war file into directory

/usr/swrepository/dc4asf/was60/war/1.2.2.1/ptfs

Open the WebSphere Administrative Console:

Open Application > Enterprise Application

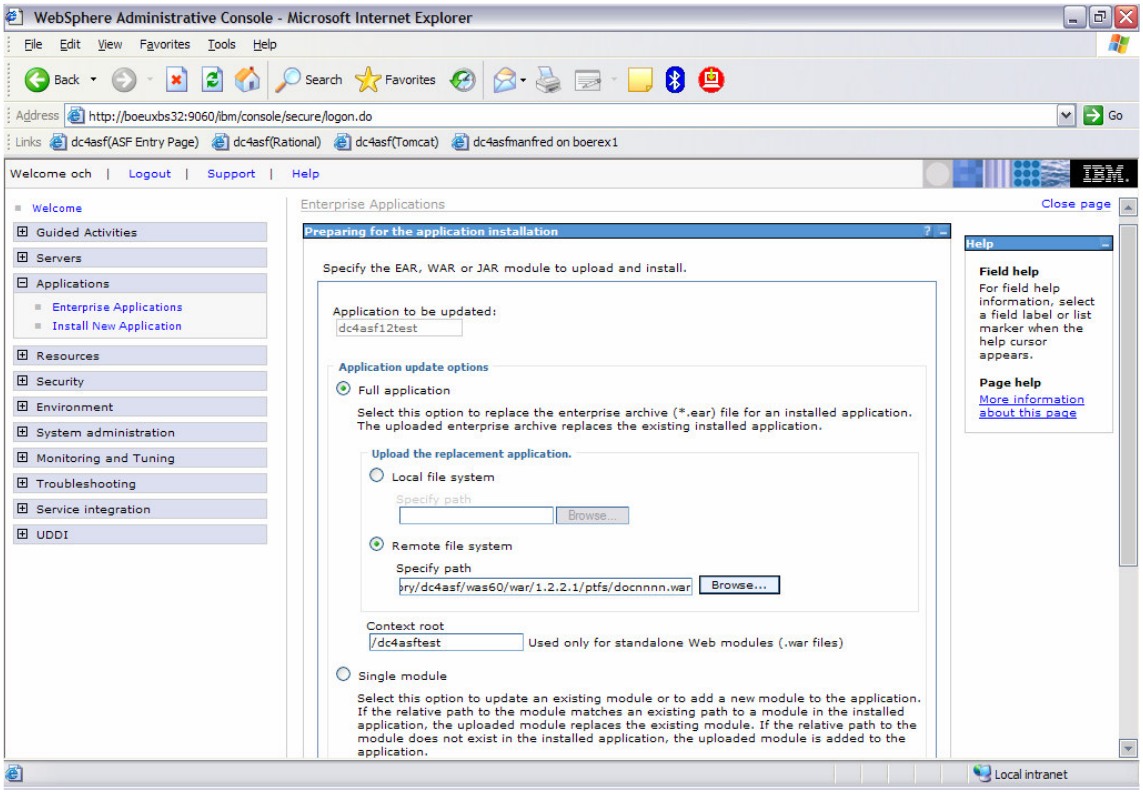
Stop the applicable application, for example “dc4asf12test”.
Select application “dc4asf12test” and enter Update.

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

/usr/fsn/usr/swrepository/dc4asf/was60/war/1.2.2.1/ptfs/docnnnn.war

Enter the context root: “ /dc4asf12test”

Note:
The context root must be the same as the context root entered during installation (see “Preparing for the application installation”).



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

Open Applications > Enterprise Application and select your application dc4asf12test. Select Start to restart the application.