# JD Edwards World

Service Enablement Installation and Configuration Guide for A9.3 Update 1

Release A9.3.x

**E41132-02**

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JD Edwards World Service Enablement Installation and Configuration Guide for A9.3 Update 1, Release A9.3.x

E41132-02

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# Preface

Welcome to the JD Edwards World Service Enablement Installation and Configuration Guide for A9.3 Update 1.

## Audience

This document is intended for implementers and end users of JD Edwards World Web Enablement Services after the A9.3 Update 1 release.

## Documentation Accessibility

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## Related Documents

You can access related documents from the JD Edwards World Release Documentation Overview pages on My Oracle Support. Access the main documentation overview page by searching for the document ID, which is 1362397.1, or by using this link:

`https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1362397.1`

## Conventions

The following text conventions are used in this document:

| Convention | Meaning |
|---|---|
| **boldface** | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary. |
| *italic* | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values. |
| `monospace` | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. |

# Part I

## Overview and Service Enablement Installation

This part contains these chapters:

# 1

# Overview

Thank you for ordering JD Edwards World A9.3.1 Service Enablement. This Java-based service enablement product is a statement of Oracle's continued commitment to the JD Edwards World product family. Service Enablement allows you to integrate your JD Edwards World Software with other software packages through the use of Java-based Web services.

This guide explains installation and configuration options and steps for:

- JD Edwards World Service Enablement.

See the *JD Edwards World Service Enablement Guide* for general information about JD Edwards World Service Enablement.

**Note:** In this guide, the name System i includes IBM servers named AS/400, eServer iSeries, System i5, System i or Power Servers running the IBM i for Business operating system.

# 2

# Install Service Enablement

This chapter contains the topic:

- Section 2.1, "Installing Service Enablement."

## 2.1 Installing Service Enablement

### To install Service Enablement

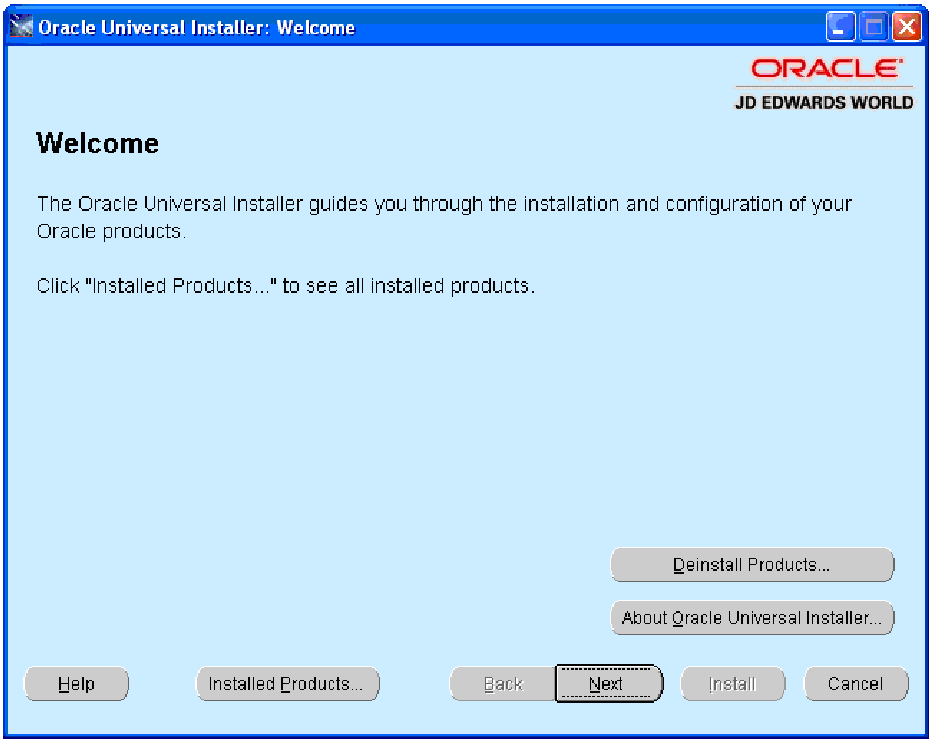
1. Download and unzip the service enablement archive file.

   The download is available via the Update Center.

   Start the Oracle Universal Installer (OUI) by running:

   Disk1\oui\bin\setup.exe from the extract location

*Figure 2–1 Oracle Universal Installer: Welcome screen*



Oracle Universal Installer: Welcome

ORACLE JD EDWARDS WORLD

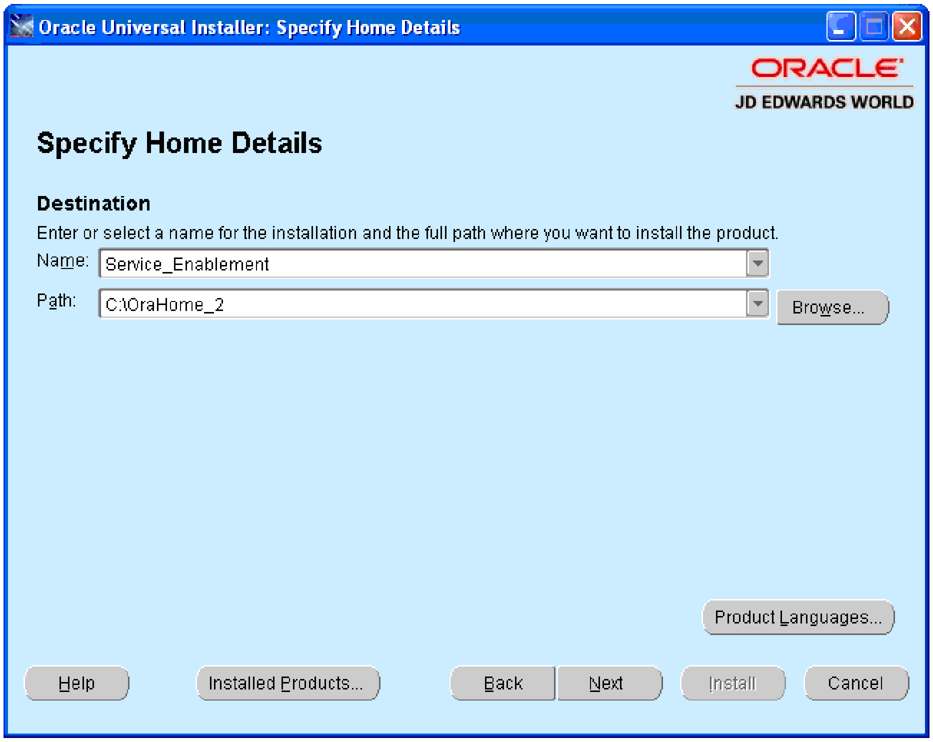
Welcome

The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.

Click "Installed Products..." to see all installed products.

2. On the Welcome screen, click Next.

*Figure 2–2 Specify Home Details screen*



Specify Home Details

Destination

Enter or select a name for the installation and the full path where you want to install the product.

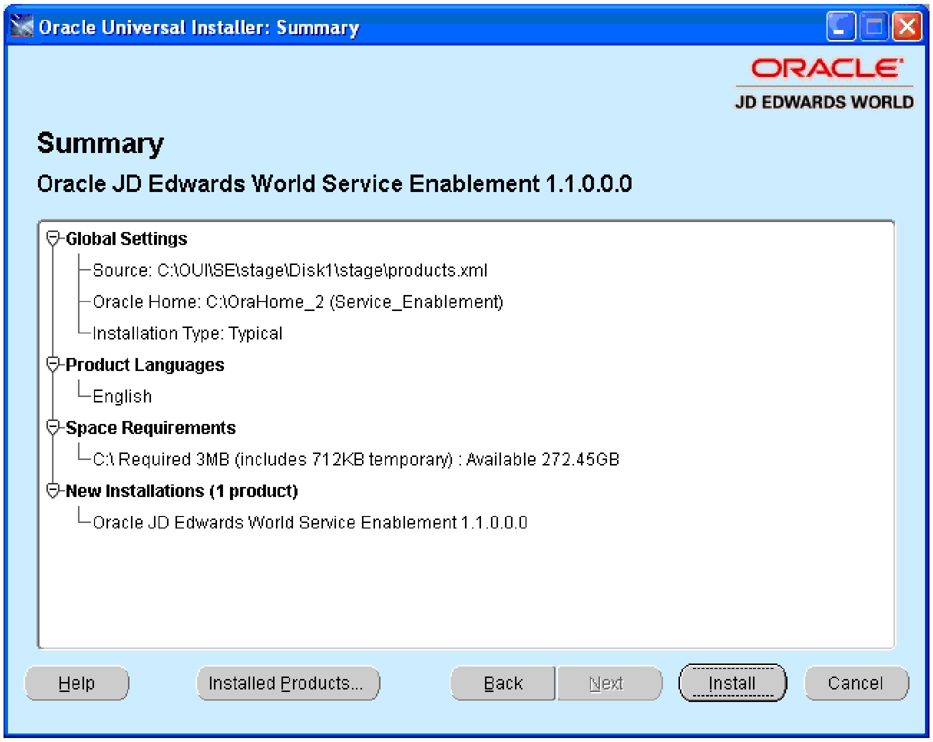
Name: Service_Enablement

Path: C:\OraHome_2

3. On the Specify Home Details screen, enter a folder Name and Path for your installation.

   JD Edwards World recommends that you retain the OraHome name in some form for your path directory. Using the OraHome name is an Oracle convention that facilitates consistent directory names among Oracle product installations.

*Figure 2–3 Summary screen*



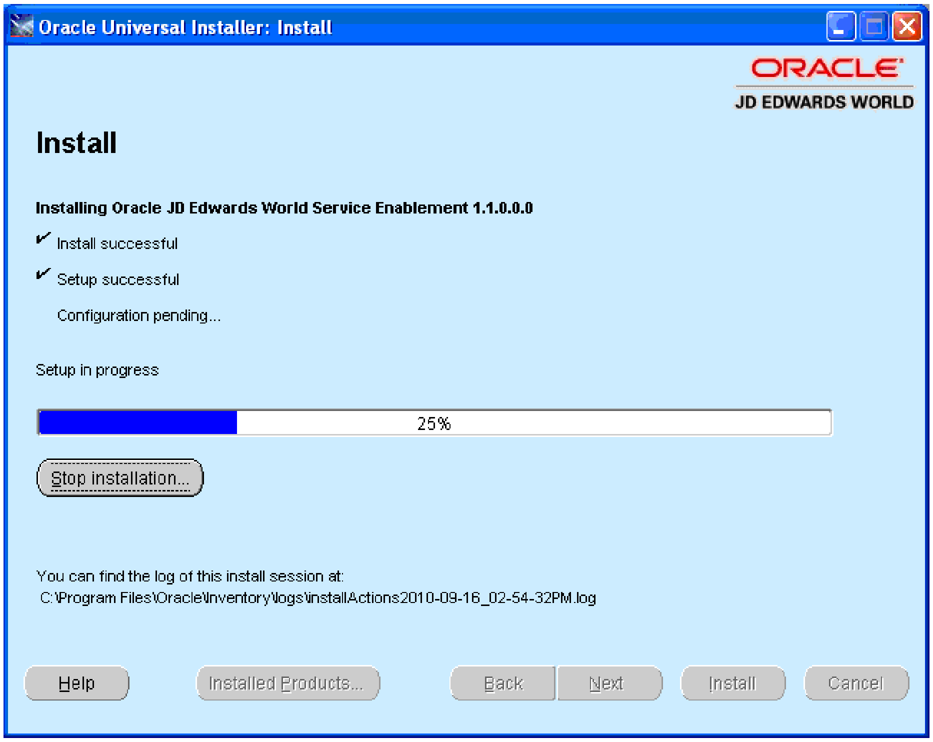
Summary

Oracle JD Edwards World Service Enablement 1.1.0.0.0

```
Global Settings
 ├Source: C:\OUI\SE\stage\Disk1\stage\products.xml
 ├Oracle Home: C:\OraHome_2 (Service_Enablement)
 └Installation Type: Typical
Product Languages
 └English
Space Requirements
 └C:\ Required 3MB (includes 712KB temporary) : Available 272.45GB
New Installations (1 product)
 └Oracle JD Edwards World Service Enablement 1.1.0.0.0
```

4. On the Summary screen, click Install.

*Figure 2–4 Install screen*



Install

Installing Oracle JD Edwards World Service Enablement 1.1.0.0.0

✓ Install successful

✓ Setup successful

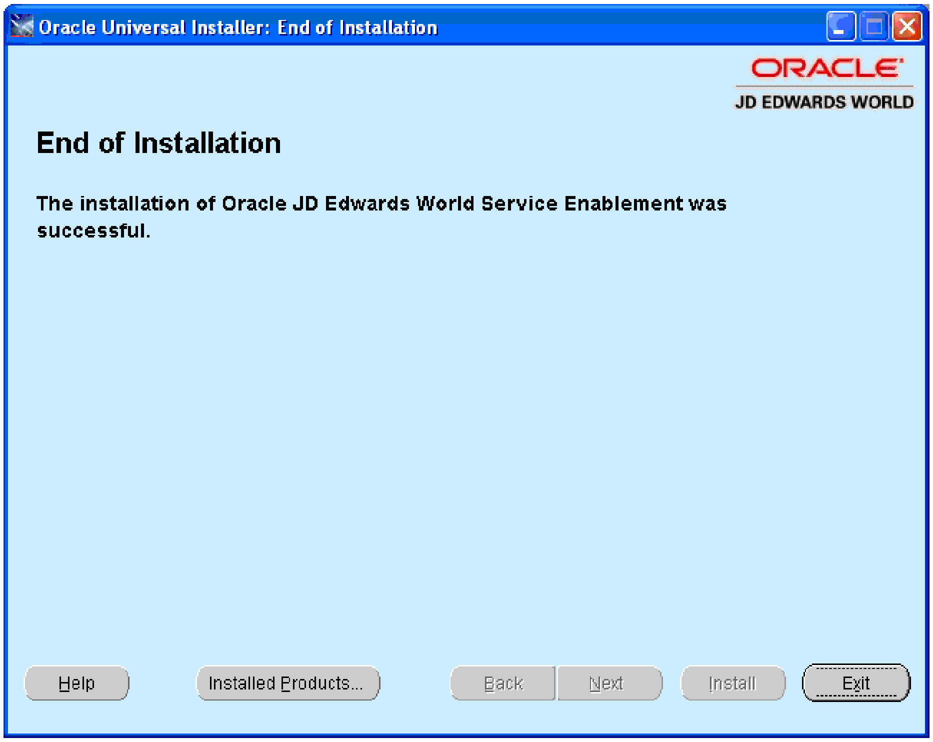
Configuration pending...

Setup in progress

You can find the log of this install session at:
C:\Program Files\Oracle\Inventory\logs\installActions2010-09-16_02-54-32PM.log

The Install screen displays the Setup in progress.

*Figure 2–5 End of Installation screen*

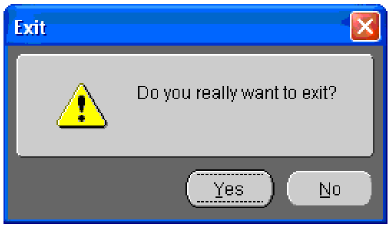


End of Installation

The installation of Oracle JD Edwards World Service Enablement was successful.

5. On the End of Installation screen, click Exit.

*Figure 2–6 Exit screen*



Do you really want to exit?

6. On the Exit screen, click Yes.

# Part II

# Deploy and Configure Web Services

This part contains these chapters:

# 3 About Deploying and Configuring Web Services

You must deploy the World Web Service EAR file to a WebLogic or WebSphere application server. All necessary Java security setup occurs after deployment.

The following chapters contain specific deployment and security setup instructions for:

- WebLogic Application Server
- WebSphere Application Server

**Note:** Make sure you have installed and configured the application server before deploying the EAR file.

# 4

# Configure the WebLogic Application Server

This chapter contains the topic:

- Section 4.1, "Configuring the WebLogic Application Server."

## 4.1 Configuring the WebLogic Application Server

Before you begin, see the World specific steps outlined in Appendix A, "Install WebLogic Application Server."

### To configure the WebLogic Application Server

1. Start the WebLogic Admin Server.

   %SystemRoot%\system32\cmd.exe /k"C:\Oracle\Middleware\user_projects\domains\base_domain\bin\startWebLogic.cmd"

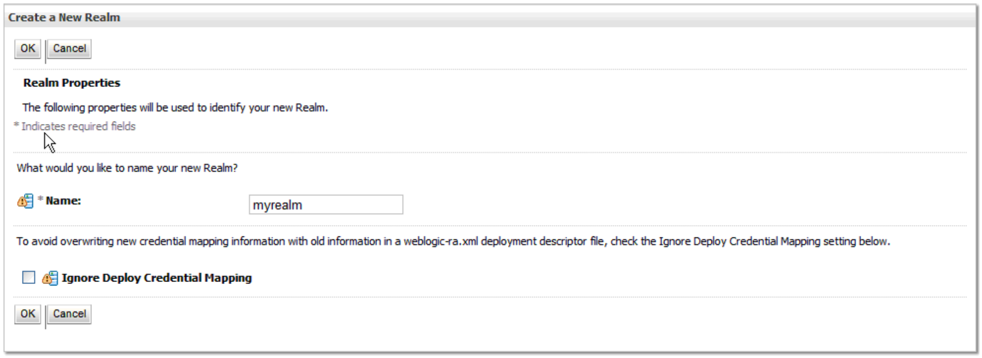
2. Launch the application server console.

   http://localhost:7001/console

3. From WebLogic console select Security Realms to create a Security Realm.

   Click New.

*Figure 4–1 Create New Realm screen*



**Realm Properties**

The following properties will be used to identify your new Realm.

* Indicates required fields

What would you like to name your new Realm?

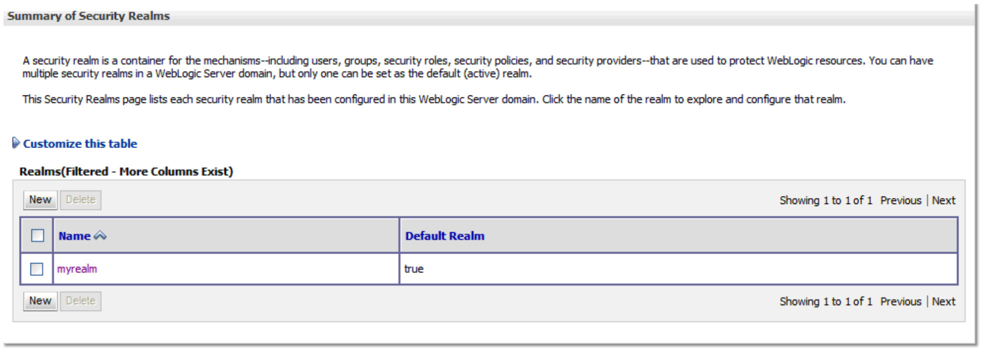
* **Name:** myrealm

To avoid overwriting new credential mapping information with old information in a weblogic-ra.xml deployment descriptor file, check the Ignore Deploy Credential Mapping setting below.

□ **Ignore Deploy Credential Mapping**

4. Enter a Realm Name and then click OK.

***Figure 4–2 Summary of Security Realms screen***



Summary of Security Realms

A security realm is a container for the mechanisms--including users, groups, security roles, security policies, and security providers--that are used to protect WebLogic resources. You can have multiple security realms in a WebLogic Server domain, but only one can be set as the default (active) realm.

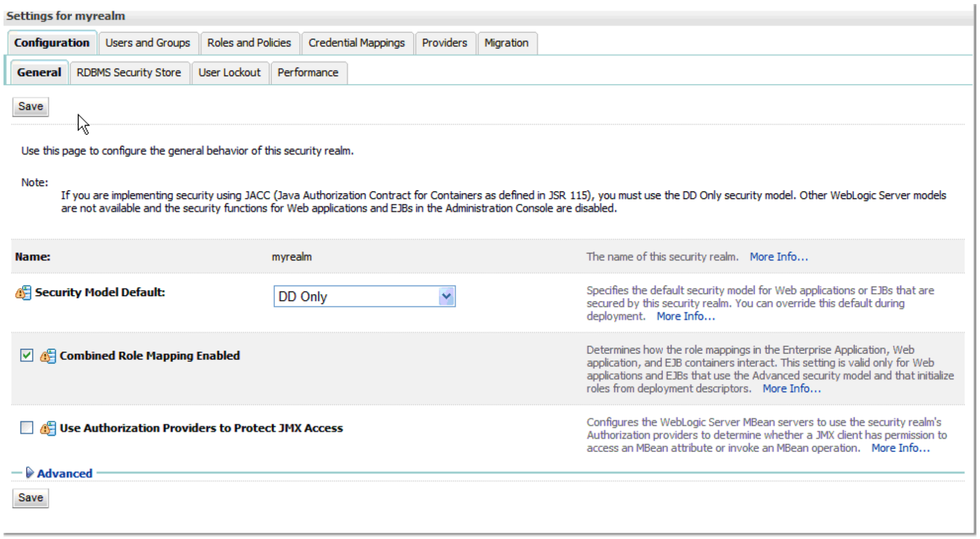
This Security Realms page lists each security realm that has been configured in this WebLogic Server domain. Click the name of the realm to explore and configure that realm.

Realms(Filtered - More Columns Exist)

| □ | Name | Default Realm |
|---|---|---|
| □ | myrealm | true |

5. Click New to create a realm.

***Figure 4–3 Settings for myrealm screen***



Settings for myrealm

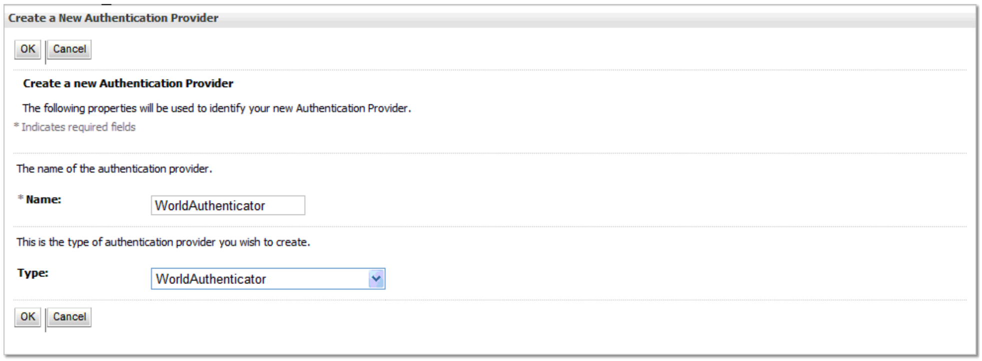
Use this page to configure the general behavior of this security realm.

Note:
If you are implementing security using JACC (Java Authorization Contract for Containers as defined in JSR 115), you must use the DD Only security model. Other WebLogic Server models are not available and the security functions for Web applications and EJBs in the Administration Console are disabled.

| | | |
|---|---|---|
| Name: | myrealm | The name of this security realm. More Info... |
| Security Model Default: | DD Only | Specifies the default security model for Web applications or EJBs that are secured by this security realm. You can override this default during deployment. More Info... |
| ☑ Combined Role Mapping Enabled | | Determines how the role mappings in the Enterprise Application, Web application, and EJB containers interact. This setting is valid only for Web applications and EJBs that use the Advanced security model and that initialize roles from deployment descriptors. More Info... |
| □ Use Authorization Providers to Protect JMX Access | | Configures the WebLogic Server MBean servers to use the security realm's Authorization providers to determine whether a JMX client has permission to access an MBean attribute or invoke an MBean operation. More Info... |

6. Select the Providers tab and then click New.

***Figure 4–4 Create a New Authentication Provider screen***



Create a New Authentication Provider

**Create a new Authentication Provider**

The following properties will be used to identify your new Authentication Provider.

* Indicates required fields

The name of the authentication provider.

* Name: WorldAuthenticator

This is the type of authentication provider you wish to create.

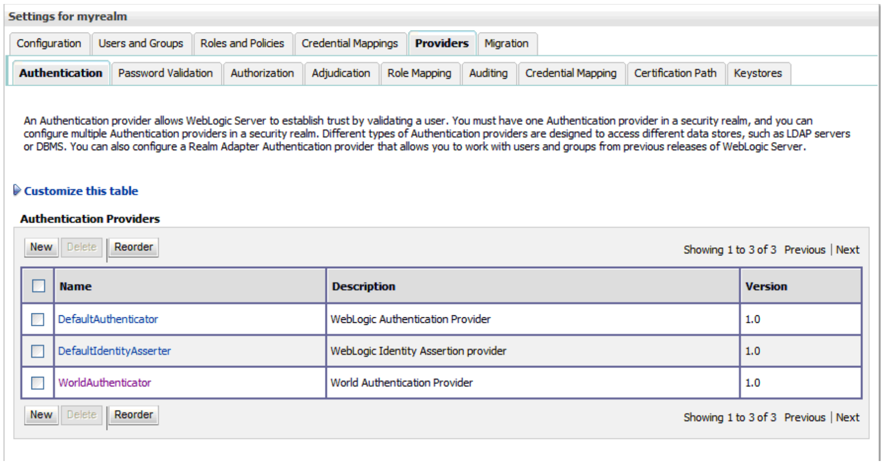
Type: WorldAuthenticator

7. Enter the Name and select the Type WorldAuthenticator from the dropdown list. (If the WorldAuthenticator is not listed, review steps 18 and 19 of Appendix A, "Install WebLogic Application Server.")

   Click OK.

The WorldAuthenticator displays as one of the Authentication Providers.

*Figure 4–5 Settings for myrealm screen*



Settings for myrealm

Configuration | Users and Groups | Roles and Policies | Credential Mappings | Providers | Migration
Authentication | Password Validation | Authorization | Adjudication | Role Mapping | Auditing | Credential Mapping | Certification Path | Keystores

An Authentication provider allows WebLogic Server to establish trust by validating a user. You must have one Authentication provider in a security realm, and you can configure multiple Authentication providers in a security realm. Different types of Authentication providers are designed to access different data stores, such as LDAP servers or DBMS. You can also configure a Realm Adapter Authentication provider that allows you to work with users and groups from previous releases of WebLogic Server.

Customize this table

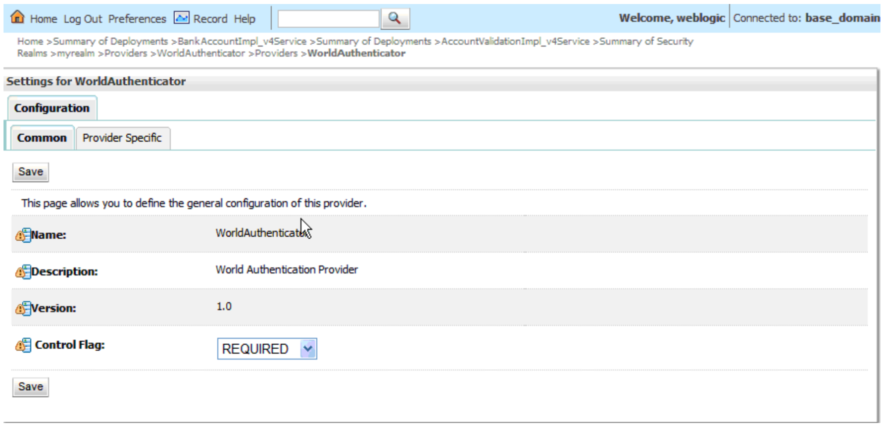
Authentication Providers

| □ | Name | Description | Version |
|---|---|---|---|
| □ | DefaultAuthenticator | WebLogic Authentication Provider | 1.0 |
| □ | DefaultIdentityAsserter | WebLogic Identity Assertion provider | 1.0 |
| □ | WorldAuthenticator | World Authentication Provider | 1.0 |

Make sure the WLS DefaultAuthenticator is before the WorldAuthenticator.

**8.** Click the WorldAuthenticator link.

*Figure 4–6 Settings for World Authenticator screen*



Home Log Out Preferences Record Help
Welcome, weblogic | Connected to: base_domain

Home >Summary of Deployments >BankAccountImpl_v4Service >Summary of Deployments >AccountValidationImpl_v4Service >Summary of Security Realms >myrealm >Providers >WorldAuthenticator >Providers >**WorldAuthenticator**

Settings for WorldAuthenticator

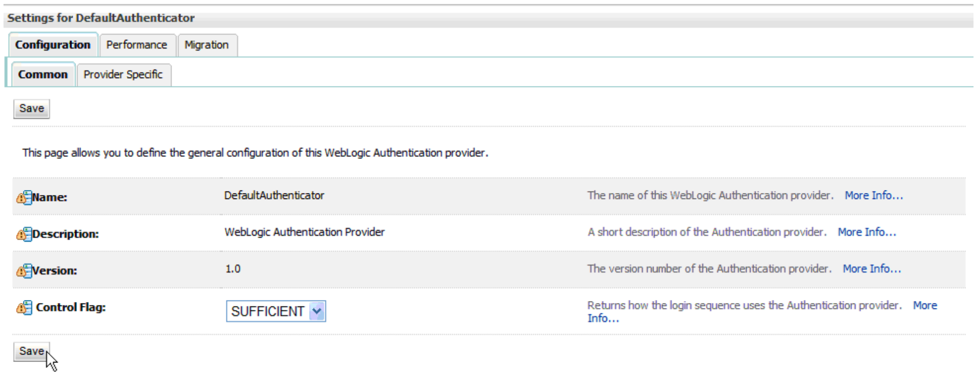
Configuration
Common | Provider Specific
Save

This page allows you to define the general configuration of this provider.

| | |
|---|---|
| Name: | WorldAuthenticator |
| Description: | World Authentication Provider |
| Version: | 1.0 |
| Control Flag: | REQUIRED |

**9.** Set the Control Flag to REQUIRED, and then click Save.

*Figure 4–7 Settings for Default Authenticator screen*



Settings for DefaultAuthenticator

Configuration | Performance | Migration
Common | Provider Specific
Save

This page allows you to define the general configuration of this WebLogic Authentication provider.

| | | |
|---|---|---|
| Name: | DefaultAuthenticator | The name of this WebLogic Authentication provider. More Info... |
| Description: | WebLogic Authentication Provider | A short description of the Authentication provider. More Info... |
| Version: | 1.0 | The version number of the Authentication provider. More Info... |
| Control Flag: | SUFFICIENT | Returns how the login sequence uses the Authentication provider. More Info... |

From WebLogic console select Security Realms. Then select the Security Realm (the exsisting or created one), and then select Providers.

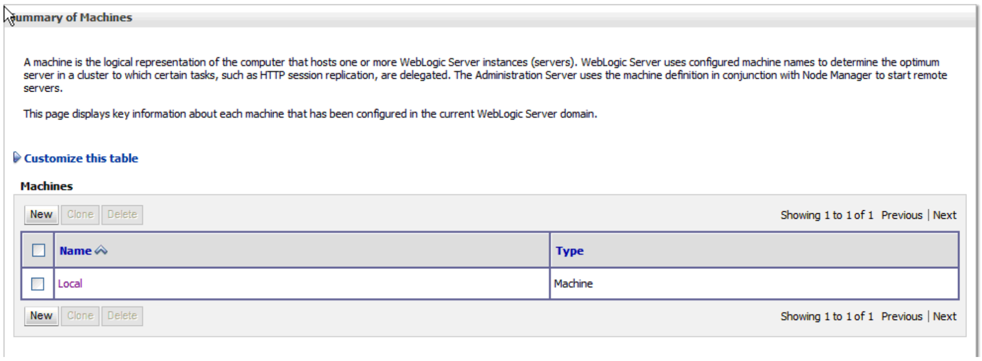
10. Select the DefaultAuthenticator link, and change the Control Flag of the DefaultAuthenticator to SUFFICIENT.

    Click Save.

11. Create a machine using default values.

    http://localhost:7001/consolehelp/console-help.portal?_nfpb=true&_pageLabel=page&helpId=machines.ConfigureMachines

*Figure 4–8 Summary of Machines screen*



Summary of Machines

A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic Server uses configured machine names to determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Administration Server uses the machine definition in conjunction with Node Manager to start remote servers.

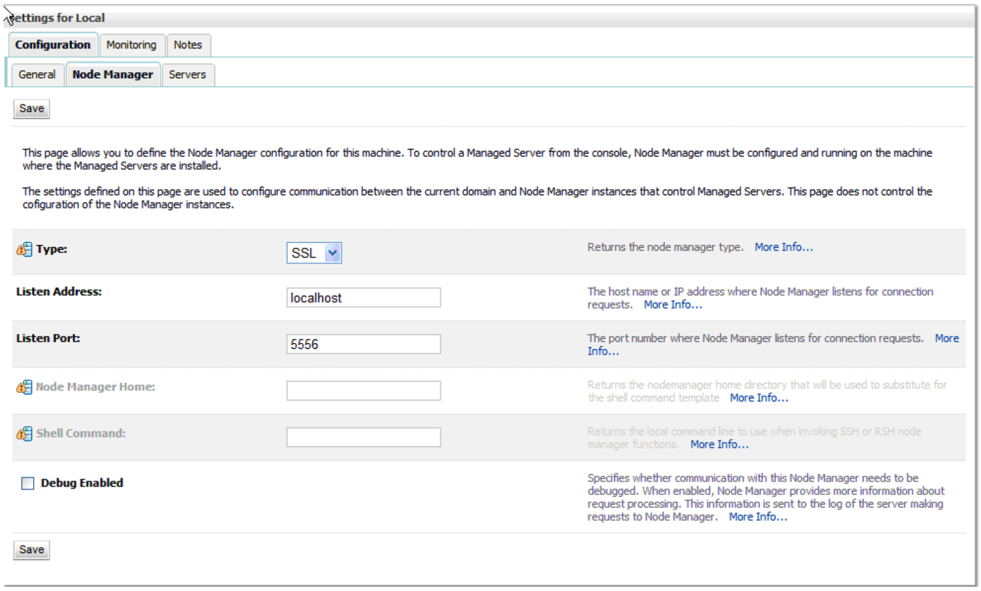
This page displays key information about each machine that has been configured in the current WebLogic Server domain.

Machines

| ☐ | Name | Type |
|---|---|---|
| ☐ | Local | Machine |

12. Select Local Machine.

*Figure 4–9 Settings for Local screen*



Settings for Local

This page allows you to define the Node Manager configuration for this machine. To control a Managed Server from the console, Node Manager must be configured and running on the machine where the Managed Servers are installed.

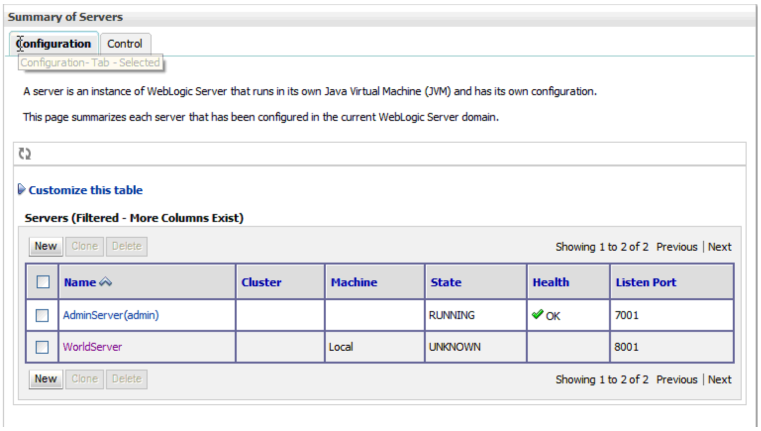
The settings defined on this page are used to configure communication between the current domain and Node Manager instances that control Managed Servers. This page does not control the cofiguration of the Node Manager instances.

| | | |
|---|---|---|
| Type: | SSL | Returns the node manager type. More Info... |
| Listen Address: | localhost | The host name or IP address where Node Manager listens for connection requests. More Info... |
| Listen Port: | 5556 | The port number where Node Manager listens for connection requests. More Info... |
| Node Manager Home: | | Returns the nodemanager home directory that will be used to substitute for the shell command template More Info... |
| Shell Command: | | Returns the local command line to use when invoking SSH or RSH node manager functions. More Info... |
| ☐ Debug Enabled | | Specifies whether communication with this Node Manager needs to be debugged. When enabled, Node Manager provides more information about request processing. This information is sent to the log of the server making requests to Node Manager. More Info... |

13. Create a managed server for the Web Services.

    http://localhost:7001/consolehelp/console-help.portal?_nfpb=true&_pageLabel=page&helpId=domainconfig.CreateManagedServers

*Figure 4–10 Summary of Servers screen*



Summary of Servers

Configuration
Control
Configuration- Tab - Selected

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.

This page summarizes each server that has been configured in the current WebLogic Server domain.

Servers (Filtered - More Columns Exist)

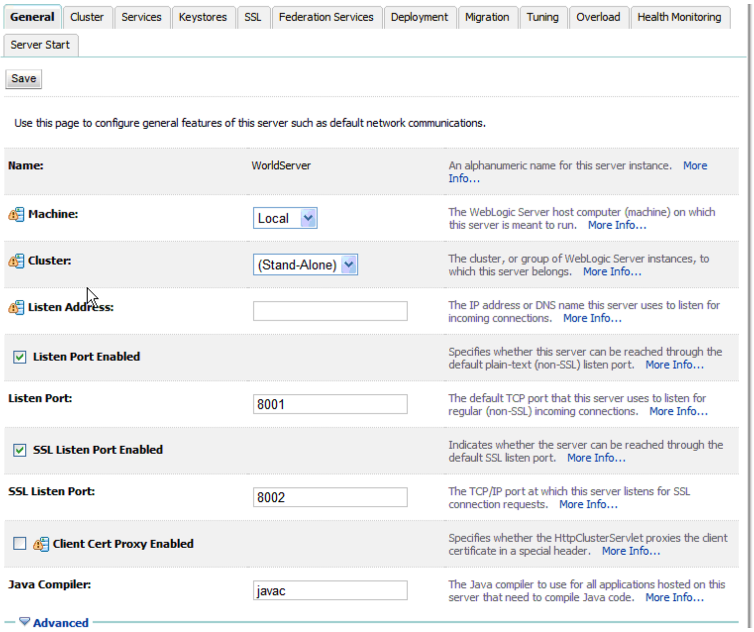
New Clone Delete
Showing 1 to 2 of 2 Previous | Next

| □ | Name | Cluster | Machine | State | Health | Listen Port |
|---|---|---|---|---|---|---|
| □ | AdminServer(admin) | | | RUNNING | ✓ OK | 7001 |
| □ | WorldServer | | Local | UNKNOWN | | 8001 |

**14.** Select WorldServer.

Set Machine to machine configured in step 12.

*Figure 4–11 Server Start screen*



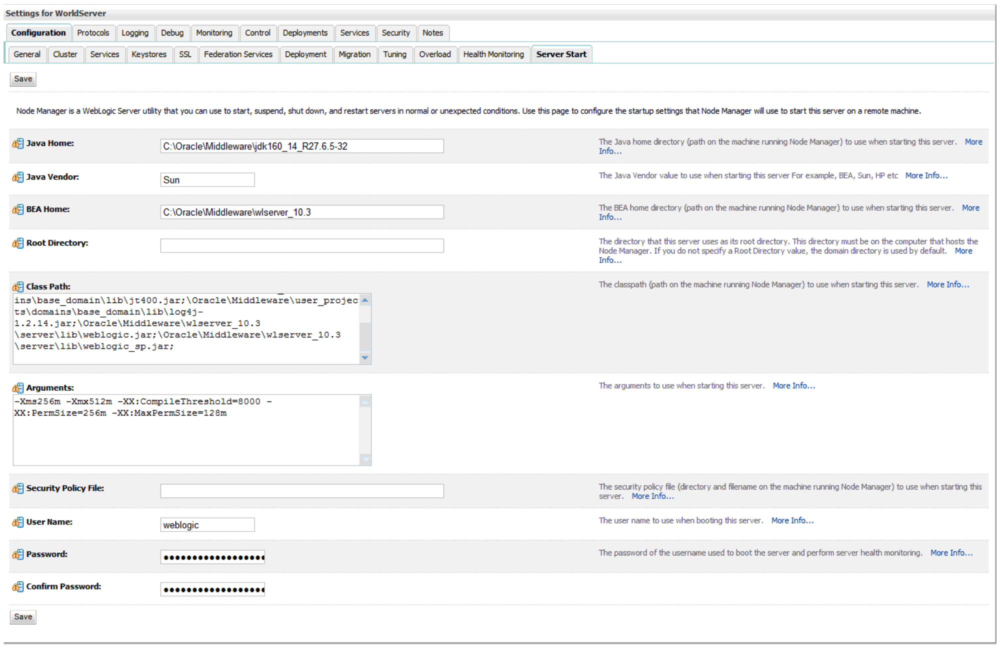
Use this page to configure general features of this server such as default network communications.

| | | |
|---|---|---|
| Name: | WorldServer | An alphanumeric name for this server instance. More Info... |
| Machine: | Local | The WebLogic Server host computer (machine) on which this server is meant to run. More Info... |
| Cluster: | (Stand-Alone) | The cluster, or group of WebLogic Server instances, to which this server belongs. More Info... |
| Listen Address: | | The IP address or DNS name this server uses to listen for incoming connections. More Info... |
| ☑ Listen Port Enabled | | Specifies whether this server can be reached through the default plain-text (non-SSL) listen port. More Info... |
| Listen Port: | 8001 | The default TCP port that this server uses to listen for regular (non-SSL) incoming connections. More Info... |
| ☑ SSL Listen Port Enabled | | Indicates whether the server can be reached through the default SSL listen port. More Info... |
| SSL Listen Port: | 8002 | The TCP/IP port at which this server listens for SSL connection requests. More Info... |
| □ Client Cert Proxy Enabled | | Specifies whether the HttpClusterServlet proxies the client certificate in a special header. More Info... |
| Java Compiler: | javac | The Java compiler to use for all applications hosted on this server that need to compile Java code. More Info... |

Services use the SSL port (https://). Make sure to verify that the SSL Listen Port is Enabled.

If using NodeManager to start and stop the managed server, select the Server Start tab and configure as the following graphic displays:

*Figure 4–12 Settings for World Server screen*



Node Manager is a WebLogic Server utility that you can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup settings that Node Manager will use to start this server on a remote machine.

| | | |
|---|---|---|
| **Java Home:** | C:\Oracle\Middleware\jdk160_14_R27.6.5-32 | The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info... |
| **Java Vendor:** | Sun | The Java Vendor value to use when starting this server For example, BEA, Sun, HP etc More Info... |
| **BEA Home:** | C:\Oracle\Middleware\wlserver_10.3 | The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info... |
| **Root Directory:** | | The directory that this server uses as its root directory. This directory must be on the computer that hosts the Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. More Info... |
| **Class Path:** | ins\base_domain\lib\jt400.jar;\Oracle\Middleware\user_projects\domains\base_domain\lib\log4j-1.2.14.jar;\Oracle\Middleware\wlserver_10.3\server\lib\weblogic.jar;\Oracle\Middleware\wlserver_10.3\server\lib\weblogic_sp.jar; | The classpath (path on the machine running Node Manager) to use when starting this server. More Info... |
| **Arguments:** | -Xms256m -Xmx512m -XX:CompileThreshold=8000 -XX:PermSize=256m -XX:MaxPermSize=128m | The arguments to use when starting this server. More Info... |
| **Security Policy File:** | | The security policy file (directory and filename on the machine running Node Manager) to use when starting this server. More Info... |
| **User Name:** | weblogic | The user name to use when booting this server. More Info... |
| **Password:** | •••••••••••••••••• | The password of the username used to boot the server and perform server health monitoring. More Info... |
| **Confirm Password:** | •••••••••••••••••• | |

- Class Path:

  \Oracle\Middleware\user_projects\domains\base_domain\lib\BaseJar.jar;\Oracle\Middleware\user_projects\domains\base_domain\lib\JDEWorldJDBC.jar;\Oracle\Middleware\user_projects\domains\base_domain\lib\jt400.jar;\Oracle\Middleware\user_projects\domains\base_domain\lib\log4j-1.2.14.jar;\Oracle\Middleware\wlserver_10.3\server\lib\weblogic.jar;\Oracle\Middleware\wlserver_10.3\server\lib\weblogic_sp.jar;

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  **Note:** For details about the latest version supported for log4j, see Doc ID 2318897.1 in My Oracle Support. (WS: Instructions to Address JD Edwards World Security Vulnerabilities (Doc ID 2318897.1) (Release A9.3 Update)

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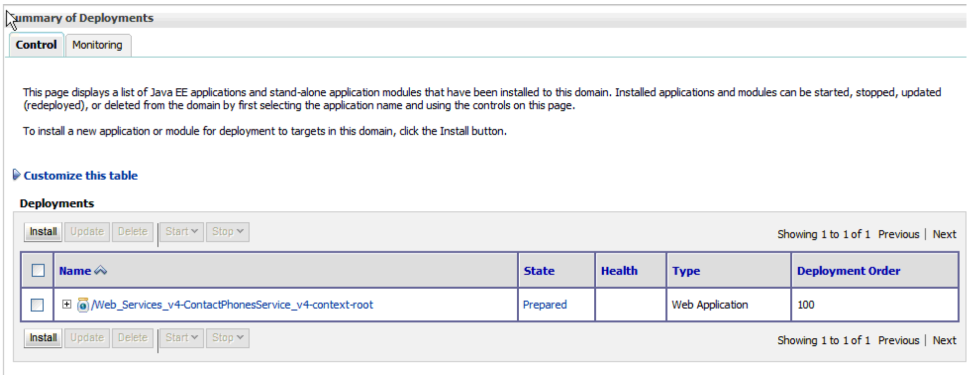
- Arguments:

  -Xms256m -Xmx512m -XX:CompileThreshold=8000 -XX:PermSize=256m -XX:MaxPermSize=128m

**15.** Deploy Services to managed server On Server Console, select Deployments.

*Figure 4–13 Summary of Deployments screen*



ummary of Deployments

Control | Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Deployments

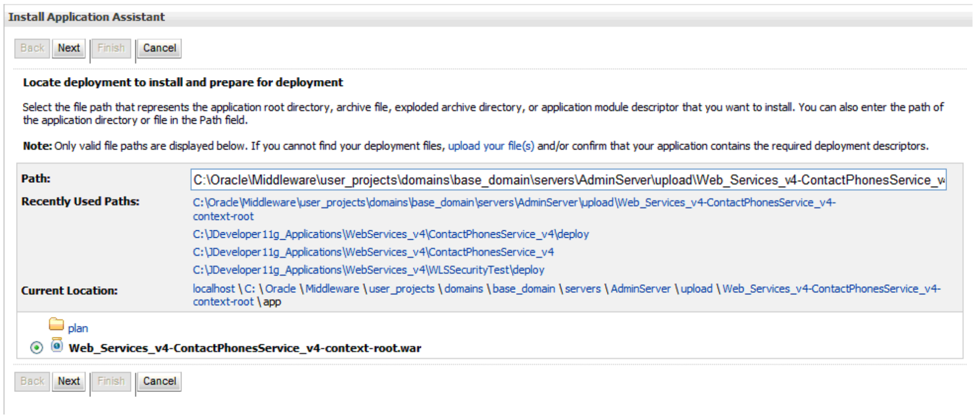
Showing 1 to 1 of 1 Previous | Next

| □ | Name | State | Health | Type | Deployment Order |
|---|---|---|---|---|---|
| □ | ⊞ /Web_Services_v4-ContactPhonesService_v4-context-root | Prepared |  | Web Application | 100 |

Showing 1 to 1 of 1 Previous | Next

**16.** Click Install.

*Figure 4–14 Install Application Assistant screen*



Install Application Assistant

Locate deployment to install and prepare for deployment

Select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install. You can also enter the path of the application directory or file in the Path field.

**Note:** Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) and/or confirm that your application contains the required deployment descriptors.

**Path:** C:\Oracle\Middleware\user_projects\domains\base_domain\servers\AdminServer\upload\Web_Services_v4-ContactPhonesService_v

**Recently Used Paths:**
C:\Oracle\Middleware\user_projects\domains\base_domain\servers\AdminServer\upload\Web_Services_v4-ContactPhonesService_v4-context-root
C:\JDeveloper11g_Applications\WebServices_v4\ContactPhonesService_v4\deploy
C:\JDeveloper11g_Applications\WebServices_v4\ContactPhonesService_v4
C:\JDeveloper11g_Applications\WebServices_v4\WLSSecurityTest\deploy

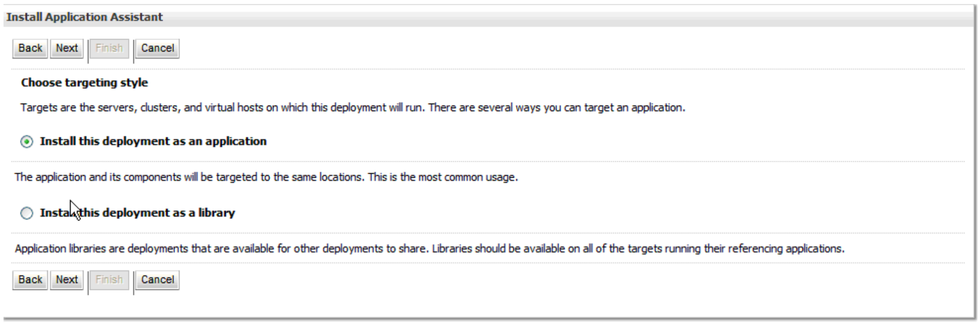
**Current Location:** localhost \ C: \ Oracle \ Middleware \ user_projects \ domains \ base_domain \ servers \ AdminServer \ upload \ Web_Services_v4-ContactPhonesService_v4-context-root \ app

plan

● **Web_Services_v4-ContactPhonesService_v4-context-root.war**

**17.** Locate service WAR file (WebServices_xx_WLS.ear) and then click Next.

*Figure 4–15 Install Application Assistant screen*



Install Application Assistant

Choose targeting style

Targets are the servers, clusters, and virtual hosts on which this deployment will run. There are several ways you can target an application.

● **Install this deployment as an application**

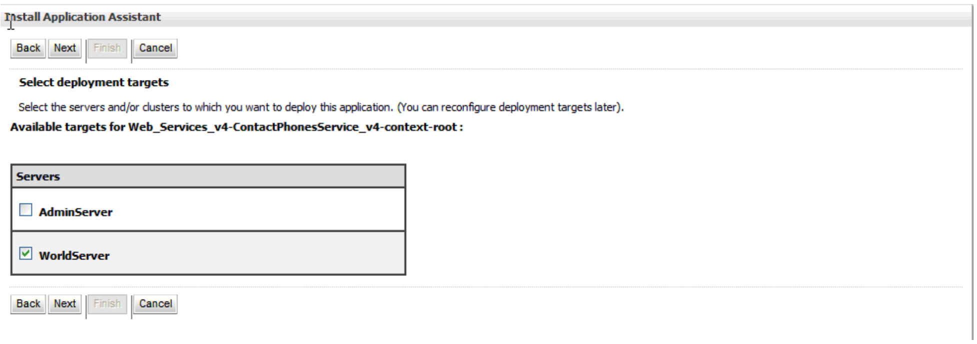
The application and its components will be targeted to the same locations. This is the most common usage.

○ **Install this deployment as a library**

Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their referencing applications.

**18.** Select Install this deployment as an application and then click Next.

*Figure 4–16 Install Application Assistant screen*



Install Application Assistant

**Select deployment targets**

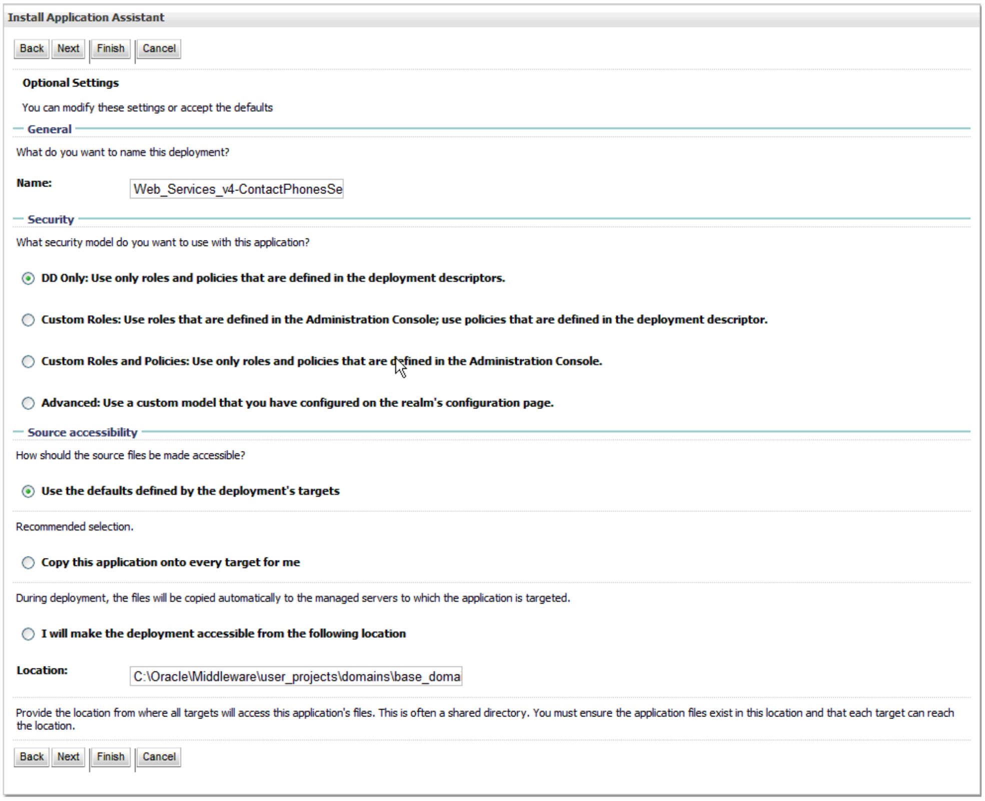
Select the servers and/or clusters to which you want to deploy this application. (You can reconfigure deployment targets later).

**Available targets for Web_Services_v4-ContactPhonesService_v4-context-root :**

| Servers |
|---|
| □ AdminServer |
| ☑ WorldServer |

19. Verify the managed server you created earlier, and click Next.

*Figure 4–17 Install Application Assistant screen*



Install Application Assistant

**Optional Settings**

You can modify these settings or accept the defaults

General

What do you want to name this deployment?

Name: Web_Services_v4-ContactPhonesSe

Security

What security model do you want to use with this application?

● DD Only: Use only roles and policies that are defined in the deployment descriptors.

○ Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.

○ Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.

○ Advanced: Use a custom model that you have configured on the realm's configuration page.

Source accessibility

How should the source files be made accessible?

● Use the defaults defined by the deployment's targets

Recommended selection.

○ Copy this application onto every target for me

During deployment, the files will be copied automatically to the managed servers to which the application is targeted.

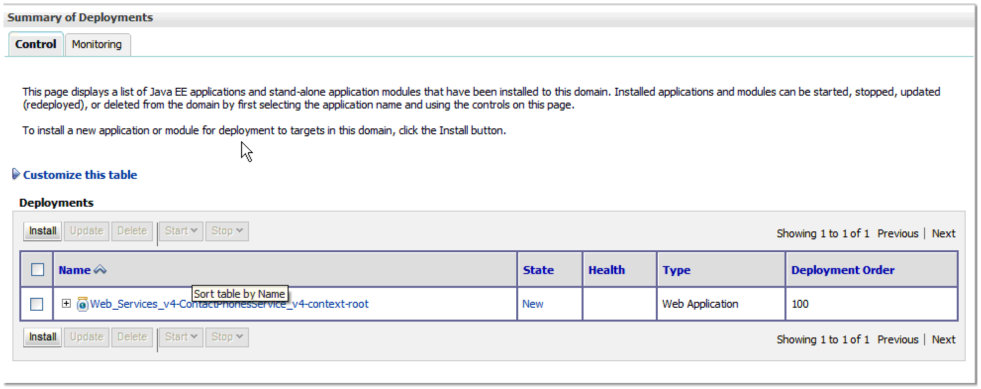
○ I will make the deployment accessible from the following location

Location: C:\Oracle\Middleware\user_projects\domains\base_doma

Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.

20. Click Finish.

*Figure 4–18 Summary of Deployments screen*



Summary of Deployments

Control | Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Deployments

Install | Update | Delete | Start | Stop — Showing 1 to 1 of 1 Previous | Next

| □ | Name | State | Health | Type | Deployment Order |
|---|---|---|---|---|---|
| □ | ⊞ Web_Services_v4-ContactPhonesService_v4-context-root | New | | Web Application | 100 |

Install | Update | Delete | Start | Stop — Showing 1 to 1 of 1 Previous | Next

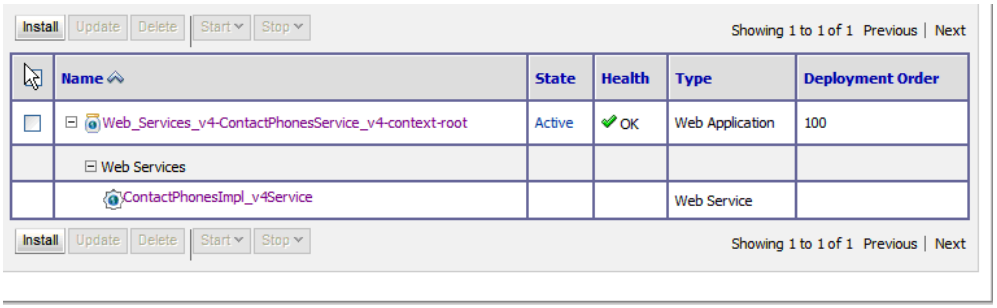
The Summary of Deployments displays your service.

21. Configure security for service (the service must be Active/Started).

22. From the Deployments screen, expand the service you want to secure.

    Collapse the Modules and EJBs nodes and then select the service you want to secure (for example: AddressBookImpl_v4Service).

*Figure 4–19 Summary of Deployments screen*



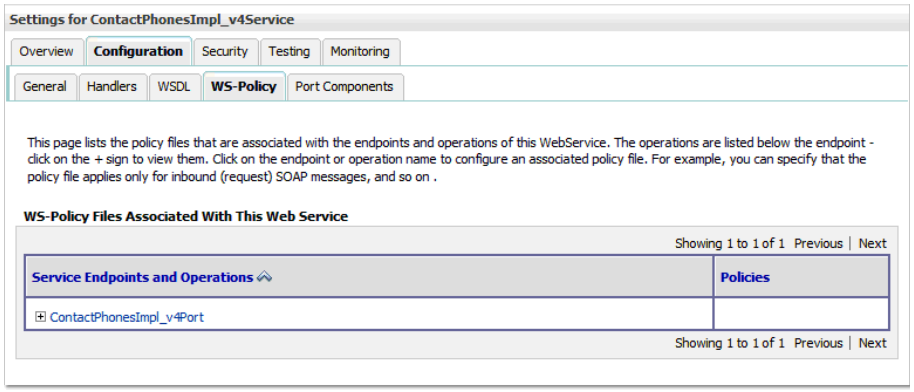
Install | Update | Delete | Start | Stop — Showing 1 to 1 of 1 Previous | Next

| □ | Name | State | Health | Type | Deployment Order |
|---|---|---|---|---|---|
| □ | ⊟ Web_Services_v4-ContactPhonesService_v4-context-root | Active | ✓ OK | Web Application | 100 |
| | ⊟ Web Services | | | | |
| | ContactPhonesImpl_v4Service | | | Web Service | |

Install | Update | Delete | Start | Stop — Showing 1 to 1 of 1 Previous | Next

23. Select the web service and then select the Configuration-> WS-Policy tab.

*Figure 4–20 Settings for WS-Policy tab*



Settings for ContactPhonesImpl_v4Service

Overview | Configuration | Security | Testing | Monitoring

General | Handlers | WSDL | WS-Policy | Port Components

This page lists the policy files that are associated with the endpoints and operations of this WebService. The operations are listed below the endpoint - click on the + sign to view them. Click on the endpoint or operation name to configure an associated policy file. For example, you can specify that the policy file applies only for inbound (request) SOAP messages, and so on .

WS-Policy Files Associated With This Web Service

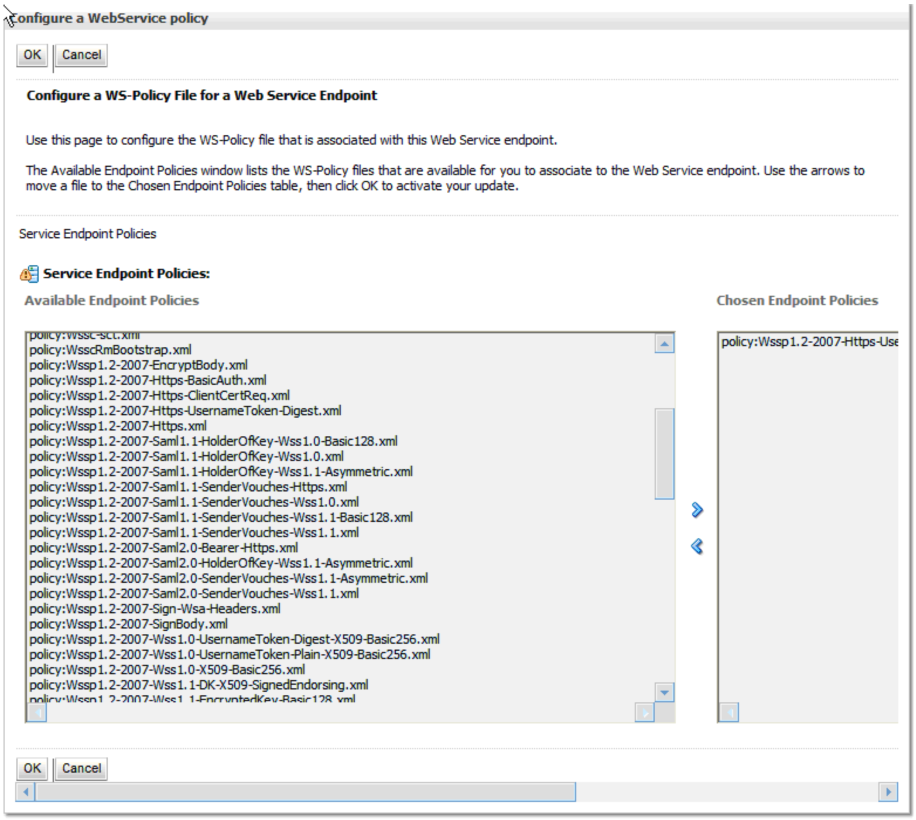
Showing 1 to 1 of 1 Previous | Next

| Service Endpoints and Operations | Policies |
|---|---|
| ⊞ ContactPhonesImpl_v4Port | |

Showing 1 to 1 of 1 Previous | Next

24. Select the option **WebLogic** on the **Configure the Policy Type for a Web Service** screen and select Next.

*Figure 4–21 Configure a WebService policy screen*



**Configure a WS-Policy File for a Web Service Endpoint**

Use this page to configure the WS-Policy file that is associated with this Web Service endpoint.

The Available Endpoint Policies window lists the WS-Policy files that are available for you to associate to the Web Service endpoint. Use the arrows to move a file to the Chosen Endpoint Policies table, then click OK to activate your update.

Service Endpoint Policies

**Service Endpoint Policies:**

Available Endpoint Policies

policy:Wssc-sct.xml
policy:WsscRmBootstrap.xml
policy:Wssp1.2-2007-EncryptBody.xml
policy:Wssp1.2-2007-Https-BasicAuth.xml
policy:Wssp1.2-2007-Https-ClientCertReq.xml
policy:Wssp1.2-2007-Https-UsernameToken-Digest.xml
policy:Wssp1.2-2007-Https.xml
policy:Wssp1.2-2007-Saml1.1-HolderOfKey-Wss1.0-Basic128.xml
policy:Wssp1.2-2007-Saml1.1-HolderOfKey-Wss1.0.xml
policy:Wssp1.2-2007-Saml1.1-HolderOfKey-Wss1.1-Asymmetric.xml
policy:Wssp1.2-2007-Saml1.1-SenderVouches-Https.xml
policy:Wssp1.2-2007-Saml1.1-SenderVouches-Wss1.0.xml
policy:Wssp1.2-2007-Saml1.1-SenderVouches-Wss1.1-Basic128.xml
policy:Wssp1.2-2007-Saml1.1-SenderVouches-Wss1.1.xml
policy:Wssp1.2-2007-Saml2.0-Bearer-Https.xml
policy:Wssp1.2-2007-Saml2.0-HolderOfKey-Wss1.1-Asymmetric.xml
policy:Wssp1.2-2007-Saml2.0-SenderVouches-Wss1.1-Asymmetric.xml
policy:Wssp1.2-2007-Saml2.0-SenderVouches-Wss1.1.xml
policy:Wssp1.2-2007-Sign-Wsa-Headers.xml
policy:Wssp1.2-2007-SignBody.xml
policy:Wssp1.2-2007-Wss1.0-UsernameToken-Digest-X509-Basic256.xml
policy:Wssp1.2-2007-Wss1.0-UsernameToken-Plain-X509-Basic256.xml
policy:Wssp1.2-2007-Wss1.0-X509-Basic256.xml
policy:Wssp1.2-2007-Wss1.1-DK-X509-SignedEndorsing.xml
policy:Wssp1.2-2007-Wss1.1-EncryptedKey-Basic128.xml

Chosen Endpoint Policies

policy:Wssp1.2-2007-Https-Use

**25.** Select:

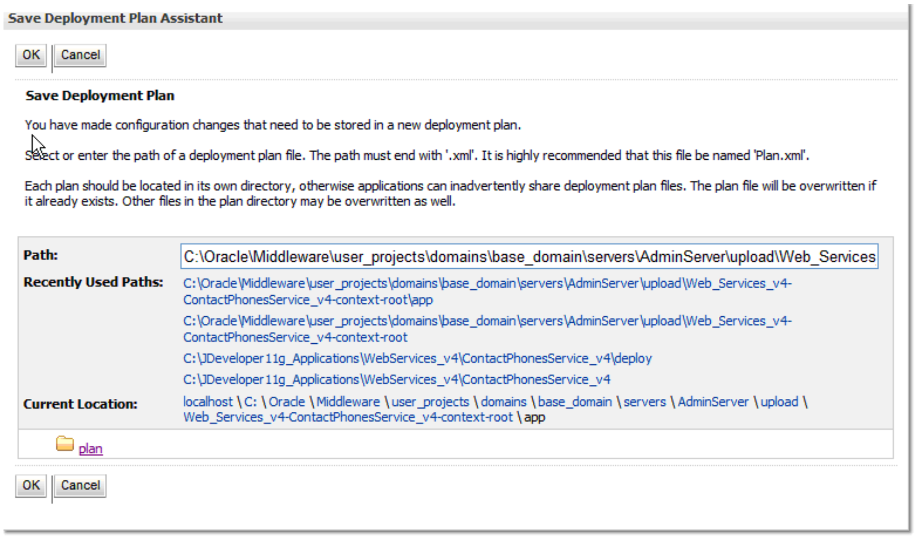
policy:Wssp1.2-2007-Https-UsernameToken-Plain.xml

Click the right arrow to move it from the Available Endpoint Policies to the Chosen Endpoint Policies area.

Click OK.

Save the deployment plan.

*Figure 4–22 Save Deployment Plan Assistant screen*



**Save Deployment Plan**

You have made configuration changes that need to be stored in a new deployment plan.

Select or enter the path of a deployment plan file. The path must end with '.xml'. It is highly recommended that this file be named 'Plan.xml'.

Each plan should be located in its own directory, otherwise applications can inadvertently share deployment plan files. The plan file will be overwritten if it already exists. Other files in the plan directory may be overwritten as well.

**Path:** C:\Oracle\Middleware\user_projects\domains\base_domain\servers\AdminServer\upload\Web_Services

**Recently Used Paths:**
C:\Oracle\Middleware\user_projects\domains\base_domain\servers\AdminServer\upload\Web_Services_v4-ContactPhonesService_v4-context-root\app
C:\Oracle\Middleware\user_projects\domains\base_domain\servers\AdminServer\upload\Web_Services_v4-ContactPhonesService_v4-context-root
C:\JDeveloper11g_Applications\WebServices_v4\ContactPhonesService_v4\deploy
C:\JDeveloper11g_Applications\WebServices_v4\ContactPhonesService_v4

**Current Location:** localhost \ C: \ Oracle \ Middleware \ user_projects \ domains \ base_domain \ servers \ AdminServer \ upload \ Web_Services_v4-ContactPhonesService_v4-context-root \ app

plan

Restart the server.

Access the WSDL.

From the Home Weblogic screen, select Deployments, then Expand Web Services. Select the Web Service Secured in Step 23. Select the Testing tab then Expand the service. Select ?WSDL under Test Point. The service WSDL will open in a browser window. Copy the URL (WSDL) and paste into testing application. Remember to use SSL and the Secure port (listed in Step 14).

26. Test services.

All web services need to specify a security string as part of the SOAP Header in the format DN=username, ADR=machineName, ENV=environment, for example; replace <soapenv:Header/> with the following lines:

```
<soapenv:Header>
<wsse:Security
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-
secext-1.0.xsd"
xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secex
t-1.0.xsd" xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
soapenv:mustUnderstand="1">
<wsse:UsernameToken
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-
secext-1.0.xsd"
xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secex
t-1.0.xsd">
<Username>DN=SOAPROXY,ADR=JDED, ENV=A93TS</Username>
<wsse:Password
Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-pr
ofile-1.0#PasswordText">edduser93</wsse:Password>
</wsse:UsernameToken>
</wsse:Security>
</soapenv:Header>
```

# 5

# Configure the WebSphere Application Server

This chapter contains these topics:

- Section 5.1, "Configuring the WebSphere Application Server for World JAX-WS Web Services (A9.3.1),"
- Section 5.2, "Create an Application Server,"
- Section 5.3, "Set Up a Shared Library,"
- Section 5.4, "Set Server Heap Size,"
- Section 5.5, "Configure Application Security,"
- Section 5.6, "Set Up Policies and Bindings,"
- Section 5.7, "Deploy Services."

## 5.1 Configuring the WebSphere Application Server for World JAX-WS Web Services (A9.3.1)

For A.9.3.1, the World Web Services were updated to use the Java API for XML Web Services (JAX_WS). In order to run these services on WebSphere Application Server, there are specific release levels and configuration steps that need to be used.

The functionality for the JAX-WS services requires PM70894, which ships in versions 7.0.0.27, 8.0.0.6, and 8.5.0.2 of WebSphere. If this functionality is required for a earlier release of WebSphere, you will need to contact your IBM representative to check on the availability of an ifix for your specific version.

Please refer to the certification information on myoraclesupport.com to determine the versions of WebSphere currently certified.

## 5.2 Create an Application Server

- See Appendix B, "Create WebSphere Application Server" in this guide.

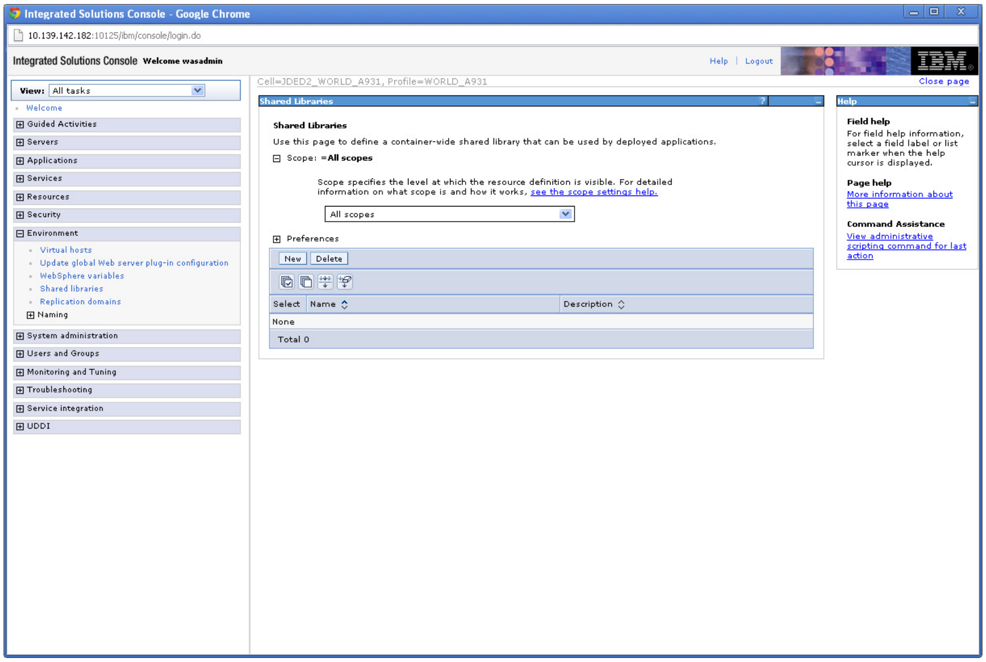
## 5.3 Set Up a Shared Library

The jt400.jar file needs to be set up in a shared library so that the web services process can authenticate a user. The jt400.jar can be downloaded and saved to an IFS folder.

### To set up a shared library

1. Access the WebSphere Integrated Solutions Console and select **Environment->Shared libraries**.

*Figure 5–1 Shared Libraries screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Shared Libraries

**Shared Libraries**

Use this page to define a container-wide shared library that can be used by deployed applications.

⊟ Scope: =**All scopes**

Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, see the scope settings help.

All scopes

⊞ Preferences

New Delete

| Select | Name | Description |
|---|---|---|
| None | | |
| Total 0 | | |

Help

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

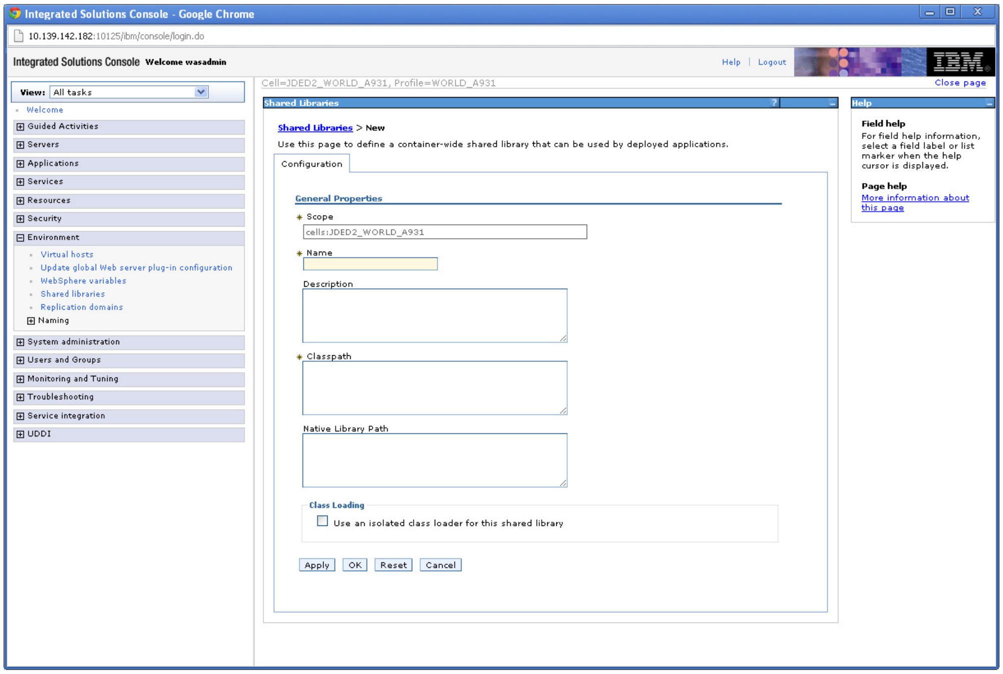
More information about this page

**Command Assistance**

View administrative scripting command for last action

2. Select a scope from the drop-down and then click New.

*Figure 5–2 Shared Libraries screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Shared Libraries

Shared Libraries > **New**

Use this page to define a container-wide shared library that can be used by deployed applications.

Configuration

General Properties

* Scope

cells:JDED2_WORLD_A931

* Name

Description

* Classpath

Native Library Path

Class Loading

☐ Use an isolated class loader for this shared library

Apply OK Reset Cancel

Help

**Field help**

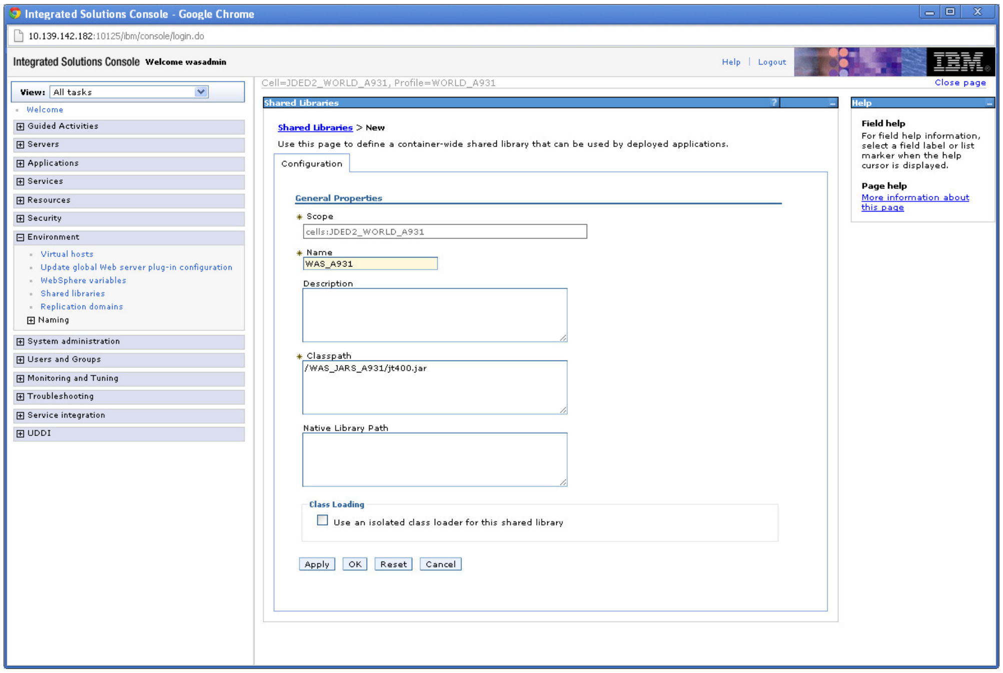
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

More information about this page

Enter "WAS_A931" in the Name field, and for the classpath, enter "/path," where jt400 is saved as "/jt400.jar."

*Figure 5–3 Shared Libraries screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Shared Libraries > New

Use this page to define a container-wide shared library that can be used by deployed applications.

Configuration

General Properties

* Scope: cells:JDED2_WORLD_A931

* Name: WAS_A931

Description:

* Classpath: /WAS_JARS_A931/jt400.jar

Native Library Path:

Class Loading

□ Use an isolated class loader for this shared library

Field help

For field help information, select a field label or list marker when the help cursor is displayed.

Page help

More information about this page

Click OK.

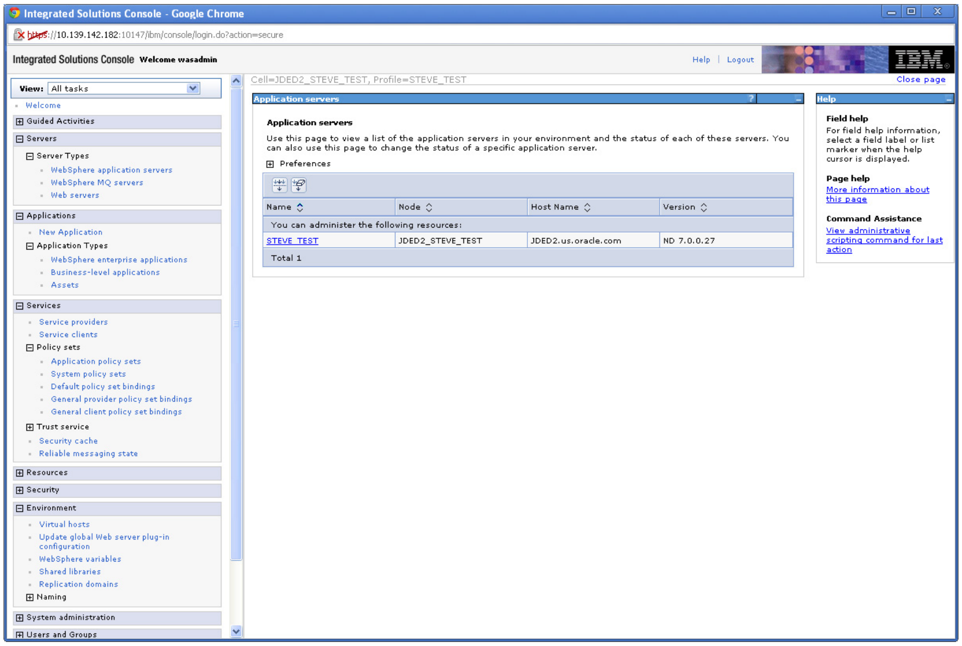
Click Save.

## 5.4 Set Server Heap Size

### To set server heap size

1. From the WebSphere Integrated Solutions Console, select **Servers_>Server Types_ >WebSphere application servers**.

*Figure 5–4 WebSphere Application Servers screen*



Cell=JDED2_STEVE_TEST, Profile=STEVE_TEST

**Application servers**

Use this page to view a list of the application servers in your environment and the status of each of these servers. You can also use this page to change the status of a specific application server.

You can administer the following resources:

| Name | Node | Host Name | Version |
|---|---|---|---|
| STEVE_TEST | JDED2_STEVE_TEST | JDED2.us.oracle.com | ND 7.0.0.27 |

Total 1

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

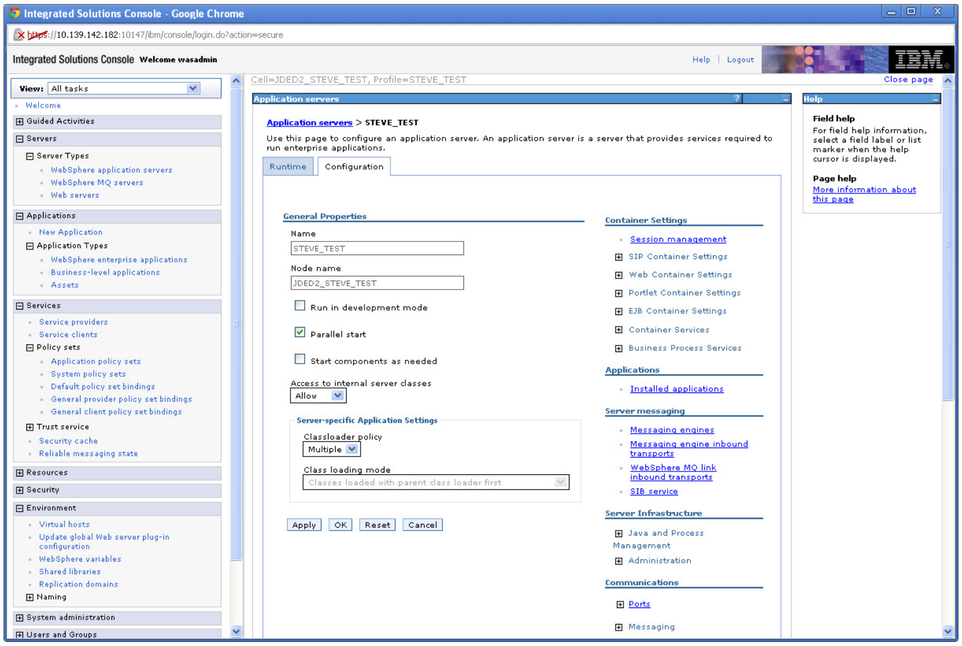
More information about this page

**Command Assistance**

View administrative scripting command for last action

2. Select your server.

*Figure 5–5 WebSphere Application Servers screen*



Cell=JDED2_STEVE_TEST, Profile=STEVE_TEST

**Application servers**

Application servers > STEVE_TEST

Use this page to configure an application server. An application server is a server that provides services required to run enterprise applications.

General Properties

Name: STEVE_TEST

Node name: JDED2_STEVE_TEST

□ Run in development mode

☑ Parallel start

□ Start components as needed

Access to internal server classes: Allow

Server-specific Application Settings

Classloader policy: Multiple

Class loading mode: Classes loaded with parent class loader first

**Field help**

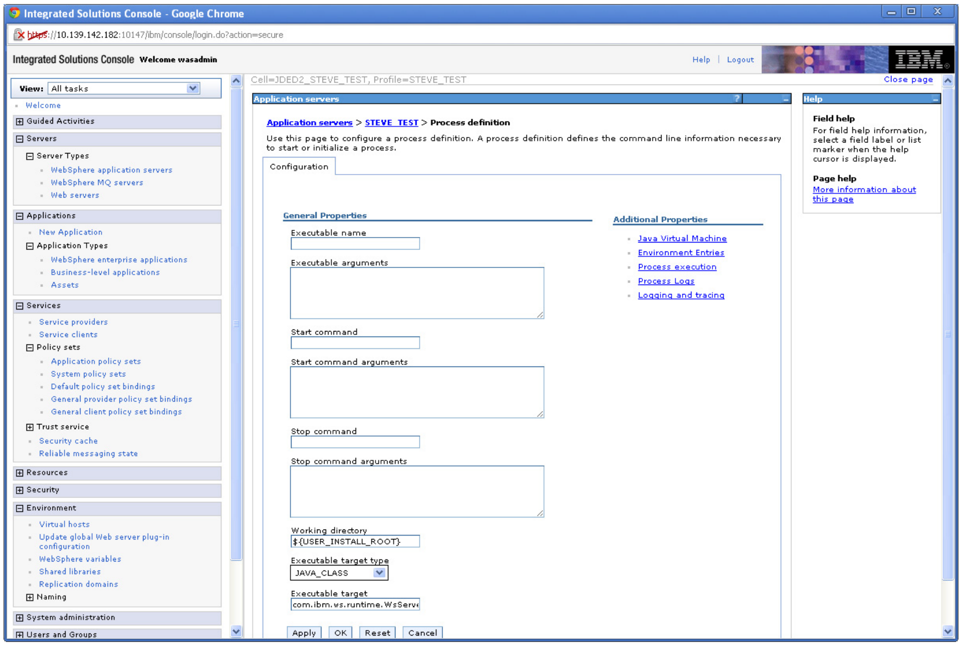
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

More information about this page

3. Select **Java and Process Management_>Process definition**.

*Figure 5–6 WebSphere Application Servers screen*



Cell=JDED2_STEVE_TEST, Profile=STEVE_TEST

Application servers > STEVE_TEST > Process definition

Use this page to configure a process definition. A process definition defines the command line information necessary to start or initialize a process.

General Properties

Executable name

Executable arguments

Start command

Start command arguments

Stop command

Stop command arguments

Working directory: ${USER_INSTALL_ROOT}

Executable target type: JAVA_CLASS

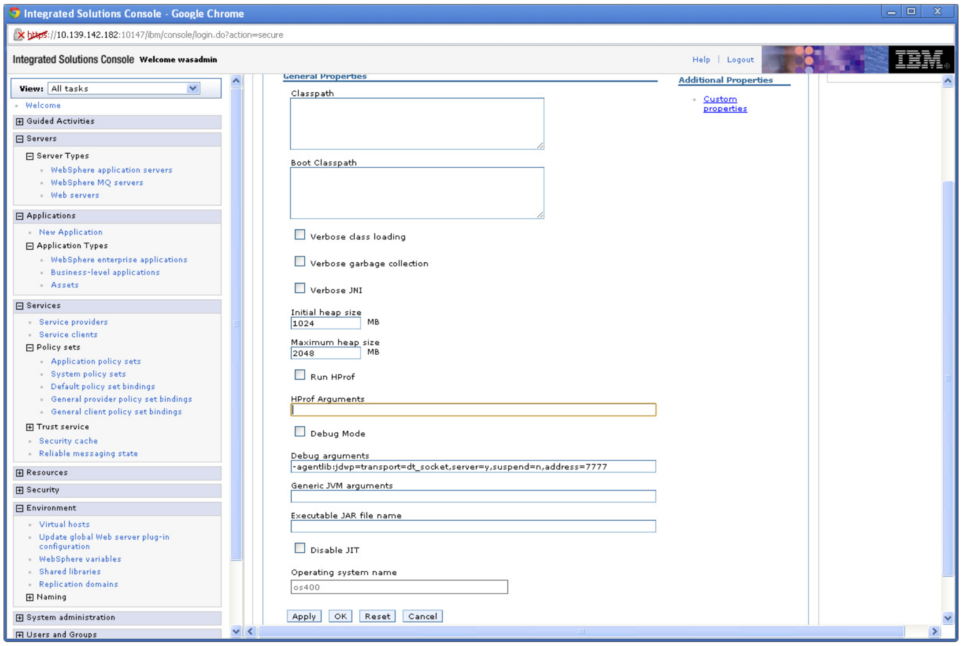
Executable target: com.ibm.ws.runtime.WsServe

Additional Properties

- Java Virtual Machine
- Environment Entries
- Process execution
- Process Logs
- Logging and tracing

4. Select **Java Virtual Machine**.

*Figure 5–7 WebSphere Application Server screen*



General Properties

Classpath

Boot Classpath

☐ Verbose class loading

☐ Verbose garbage collection

☐ Verbose JNI

Initial heap size: 1024 MB

Maximum heap size: 2048 MB

☐ Run HProf

HProf Arguments

☐ Debug Mode

Debug arguments: -agentlib:jdwp=transport=dt_socket,server=y,suspend=n,address=7777

Generic JVM arguments

Executable JAR file name

☐ Disable JIT

Operating system name: os400

Additional Properties

- Custom properties

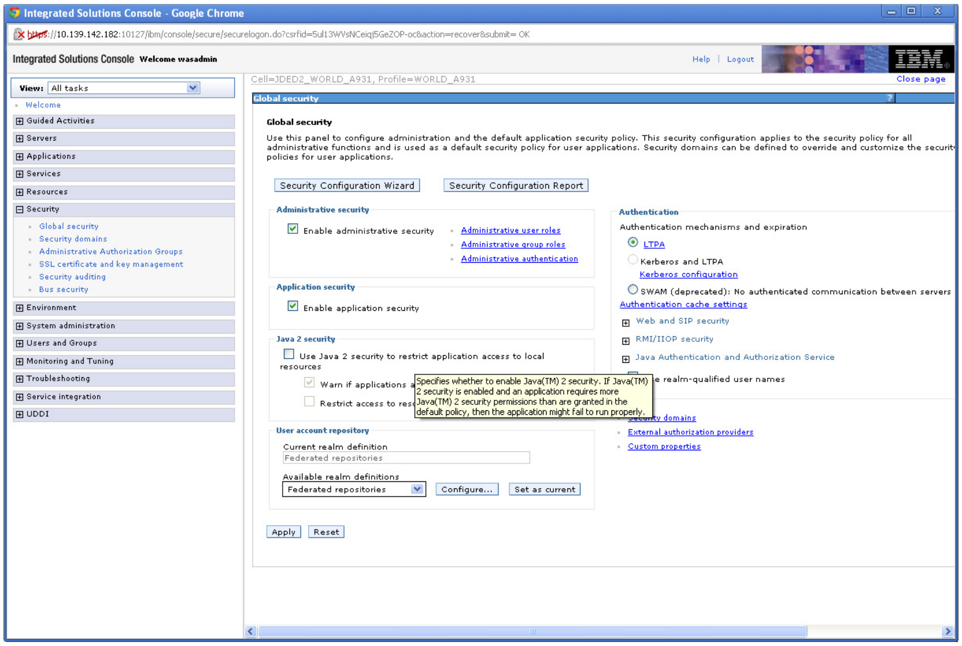
5. For the Initial heap size, enter 1024.
6. For the Maximum heap size, enter 2048.
7. Click OK.
8. Click Save.
9. Restart the server.

## 5.5 Configure Application Security

### To configure application security

1. From the WebSphere Integrated Solutions Console, select the **Security->Global Security** option.

*Figure 5–8 Global Security screen*


Integrated Solutions Console - Google Chrome
https://10.139.142.182:10127/ibm/console/secure/securelogon.do?csrfid=5ul13WVsNCeiqj5GeZOP-oc&action=recover&submit= OK
Integrated Solutions Console
Welcome wasadmin
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
Services
Resources
Security
Global security
Security domains
Administrative Authorization Groups
SSL certificate and key management
Security auditing
Bus security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Close page
Global security
Security Configuration Wizard
Security Configuration Report
Administrative user roles
Administrative group roles
Administrative authentication
Kerberos configuration
Authentication cache settings
Web and SIP security
RMI/IIOP security
Java Authentication and Authorization Service
Security domains
External authorization providers
Custom properties
Configure...
Set as current
Apply
Reset

Cell=JDED2_WORLD_A931, Profile=WORLD_A931

**Global security**

Use this panel to configure administration and the default application security policy. This security configuration applies to the security policy for all administrative functions and is used as a default security policy for user applications. Security domains can be defined to override and customize the securit policies for user applications.

**Administrative security**

☑ Enable administrative security

**Application security**

☑ Enable application security

**Java 2 security**

☐ Use Java 2 security to restrict application access to local resources

☑ Warn if applications a

☐ Restrict access to reso

Specifies whether to enable Java(TM) 2 security. If Java(TM) 2 security is enabled and an application requires more Java(TM) 2 security permissions than are granted in the default policy, then the application might fail to run properly.

**User account repository**

Current realm definition: Federated repositories

Available realm definitions: Federated repositories

**Authentication**

Authentication mechanisms and expiration

● LTPA

○ Kerberos and LTPA

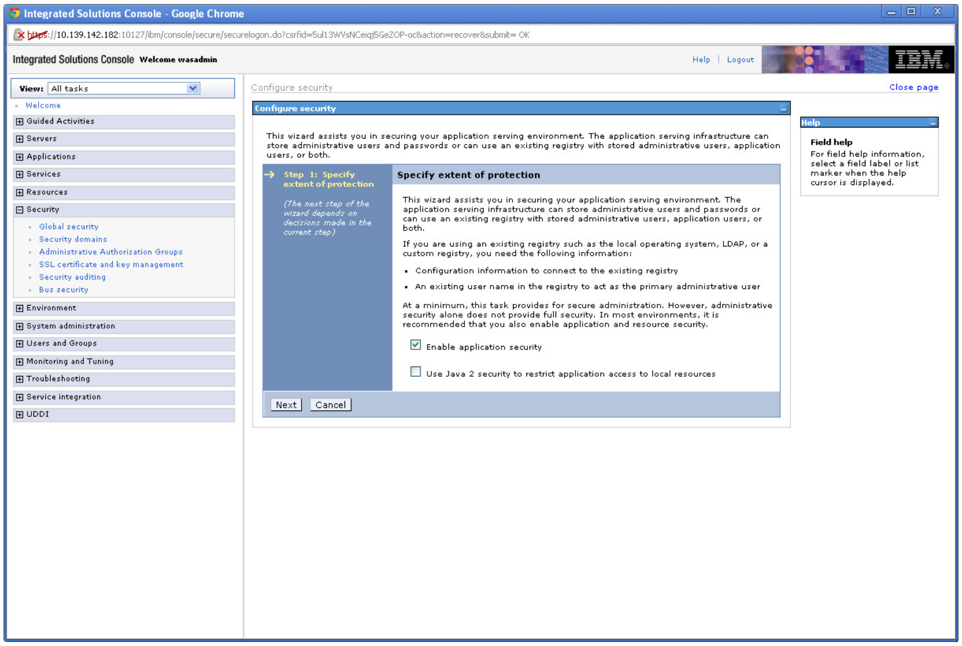
○ SWAM (deprecated): No authenticated communication between servers

e realm-qualified user names

2. Check the **Enable administrative security** checkbox and uncheck **Use Java 2 security to restrict application access to local resources**.

3. Select the **Security Configuration Wizard** button.

***Figure 5–9 Configure Security screen***



Configure security

This wizard assists you in securing your application serving environment. The application serving infrastructure can store administrative users and passwords or can use an existing registry with stored administrative users, application users, or both.

→ Step 1: Specify extent of protection

(The next step of the wizard depends on decisions made in the current step)

**Specify extent of protection**

This wizard assists you in securing your application serving environment. The application serving infrastructure can store administrative users and passwords or can use an existing registry with stored administrative users, application users, or both.

If you are using an existing registry such as the local operating system, LDAP, or a custom registry, you need the following information:

- Configuration information to connect to the existing registry
- An existing user name in the registry to act as the primary administrative user

At a minimum, this task provides for secure administration. However, administrative security alone does not provide full security. In most environments, it is recommended that you also enable application and resource security.

☑ Enable application security

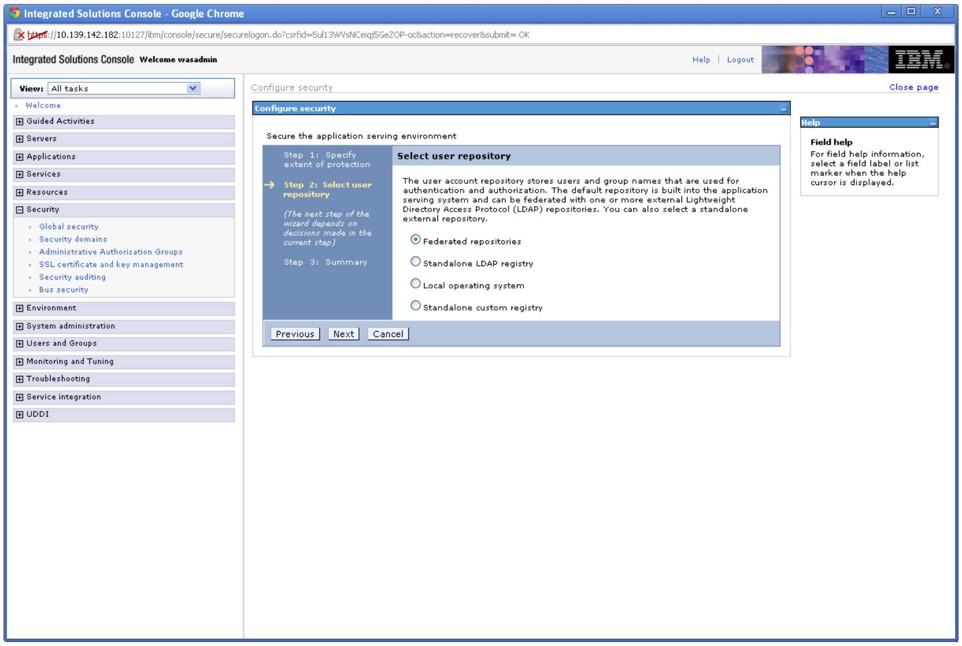
☐ Use Java 2 security to restrict application access to local resources

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

4. Click Next.

***Figure 5–10 Configure Security screen***



Configure security

Secure the application serving environment

Step 1: Specify extent of protection

→ Step 2: Select user repository

(The next step of the wizard depends on decisions made in the current step)

Step 3: Summary

**Select user repository**

The user account repository stores users and group names that are used for authentication and authorization. The default repository is built into the application serving system and can be federated with one or more external Lightweight Directory Access Protocol (LDAP) repositories. You can also select a standalone external repository.

● Federated repositories

○ Standalone LDAP registry

○ Local operating system

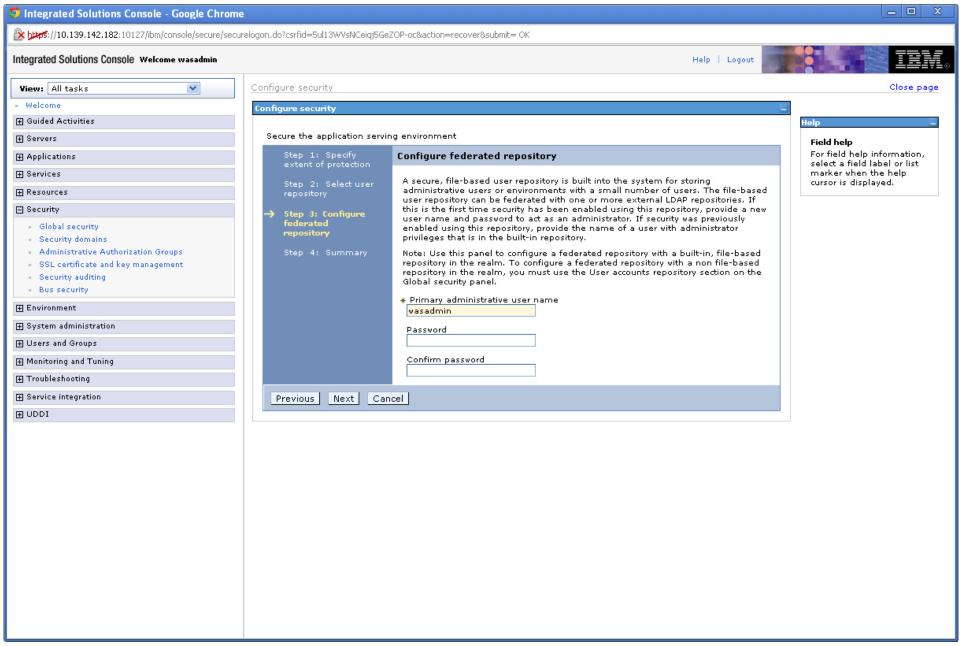
○ Standalone custom registry

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

5. Select **Federated repositories**. Click Next.

*Figure 5–11 Configure Security screen*


Integrated Solutions Console - Google Chrome
https://10.139.142.182:10127/ibm/console/secure/securelogon.do?csrfid=5ul13WVsNCeiqj5GeZOP-oc&action=recover&submit= OK
Integrated Solutions Console Welcome wasadmin
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
Services
Resources
Security
Global security
Security domains
Administrative Authorization Groups
SSL certificate and key management
Security auditing
Bus security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Configure security
Close page
Configure security
Step 1: Specify extent of protection
Step 2: Select user repository
Step 3: Configure federated repository
Step 4: Summary
Previous
Next
Cancel
Help

Secure the application serving environment

**Configure federated repository**

A secure, file-based user repository is built into the system for storing administrative users or environments with a small number of users. The file-based user repository can be federated with one or more external LDAP repositories. If this is the first time security has been enabled using this repository, provide a new user name and password to act as an administrator. If security was previously enabled using this repository, provide the name of a user with administrator privileges that is in the built-in repository.

Note: Use this panel to configure a federated repository with a built-in, file-based repository in the realm. To configure a federated repository with a non file-based repository in the realm, you must use the User accounts repository section on the Global security panel.

* Primary administrative user name: wasadmin

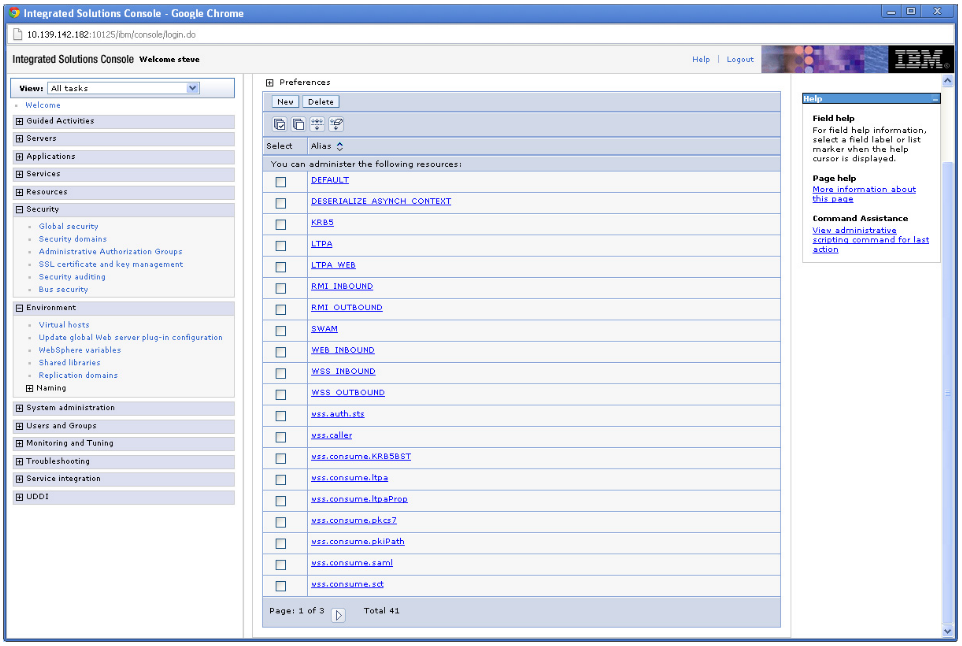
Password:

Confirm password:

**Field help**
For field help information, select a field label or list marker when the help cursor is displayed.

6. Enter a user name and password to be used to administer this server.
7. Click Next, and click Finish.
8. Expand the **Java Authentication** and **Authorization Service**, and select **System logins**.

*Figure 5–12 Configure Security screen*



| Select | Alias |
|---|---|
| You can administer the following resources: | |
| □ | DEFAULT |
| □ | DESERIALIZE_ASYNCH_CONTEXT |
| □ | KRB5 |
| □ | LTPA |
| □ | LTPA_WEB |
| □ | RMI_INBOUND |
| □ | RMI_OUTBOUND |
| □ | SWAM |
| □ | WEB_INBOUND |
| □ | WSS_INBOUND |
| □ | WSS_OUTBOUND |
| □ | wss.auth.sts |
| □ | wss.caller |
| □ | wss.consume.KRB5BST |
| □ | wss.consume.ltpa |
| □ | wss.consume.ltpaProp |
| □ | wss.consume.pkcs7 |
| □ | wss.consume.pkiPath |
| □ | wss.consume.saml |
| □ | wss.consume.sct |

Page: 1 of 3 ▷ Total 41

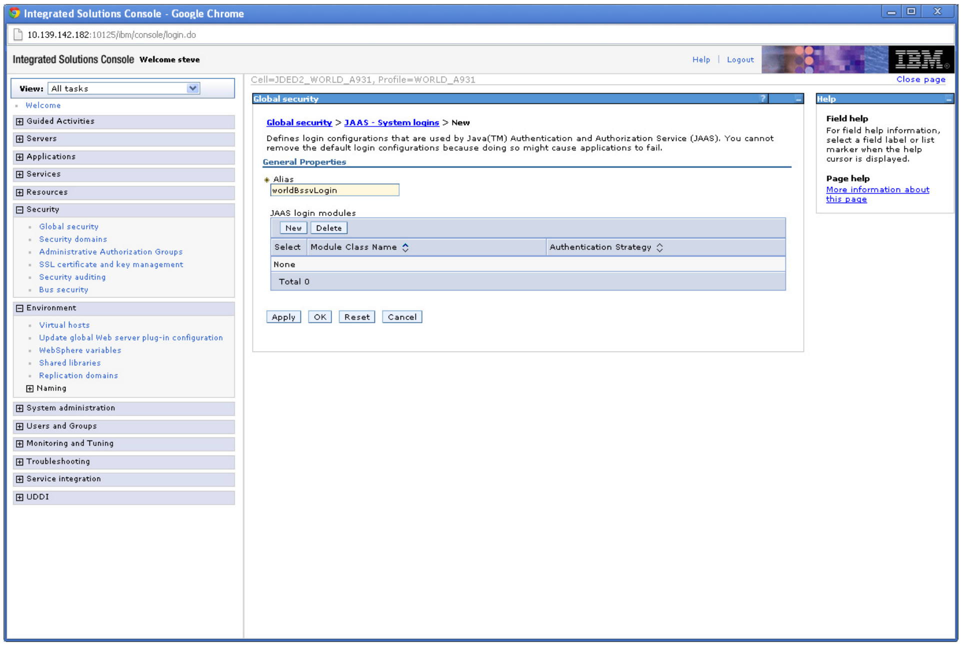
**Field help**
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**
More information about this page

**Command Assistance**
View administrative scripting command for last action

9. Click New.

*Figure 5–13 Global Security screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Global security > JAAS - System logins > New

Defines login configurations that are used by Java(TM) Authentication and Authorization Service (JAAS). You cannot remove the default login configurations because doing so might cause applications to fail.

General Properties

* Alias: worldBssvLogin

JAAS login modules

| Select | Module Class Name | Authentication Strategy |
|---|---|---|
| None | | |
| Total 0 | | |

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

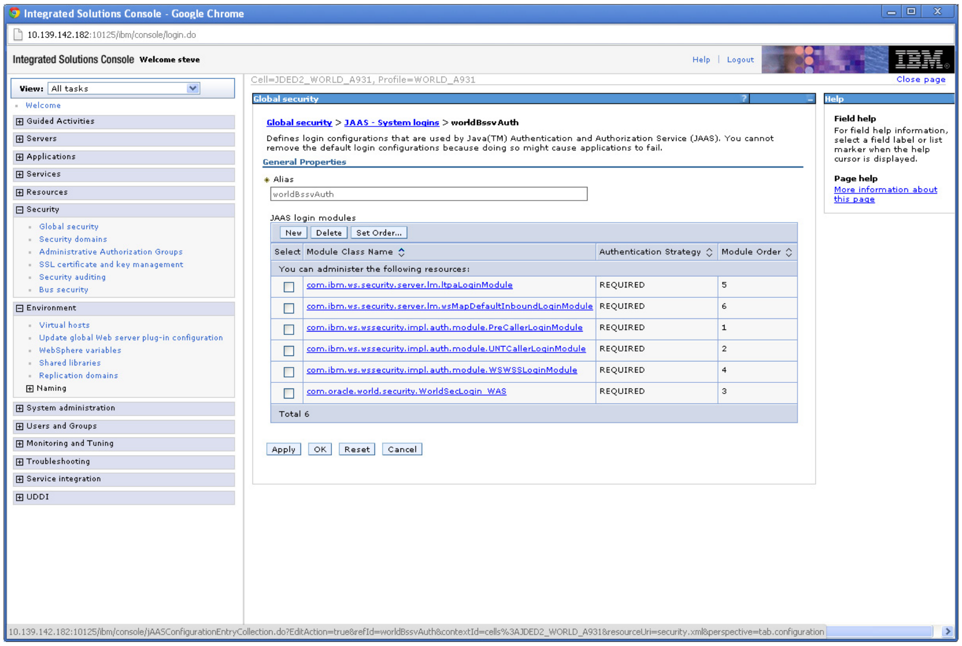
More information about this page

10. Enter "worldBssvAuth" for the Alias, and click New under JAAS login modules.
11. Enter "com.ibm.ws.wssecurity.impl.auth.module.PreCallerLoginModule" and click OK.
12. Click New under JAAS login modules to add the following modules:
    - com.ibm.ws.wssecurity.impl.auth.module.UNTCallerLoginModule
    - com.oracle.world.security.WorldSecLogin_WAS

      (Check the Use login module proxy box when adding this class name)
    - com.ibm.ws.wssecurity.impl.auth.module.WSWSSLoginModule
    - com.ibm.ws.security.server.lm.ltpaLoginModule
    - com.ibm.ws.security.server.lm.wsMapDefaultInboundLoginModule
13. Click Save.

    The worldBssvAuth system login should look like the screen shot below:

*Figure 5–14 Global Security screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Global security > JAAS - System logins > worldBssvAuth

Defines login configurations that are used by Java(TM) Authentication and Authorization Service (JAAS). You cannot remove the default login configurations because doing so might cause applications to fail.

General Properties

* Alias

worldBssvAuth

JAAS login modules

New | Delete | Set Order...

| Select | Module Class Name | Authentication Strategy | Module Order |
|---|---|---|---|
| You can administer the following resources: | | | |
| □ | com.ibm.ws.security.server.lm.ltpaLoginModule | REQUIRED | 5 |
| □ | com.ibm.ws.security.server.lm.wsMapDefaultInboundLoginModule | REQUIRED | 6 |
| □ | com.ibm.ws.wssecurity.impl.auth.module.PreCallerLoginModule | REQUIRED | 1 |
| □ | com.ibm.ws.wssecurity.impl.auth.module.UNTCallerLoginModule | REQUIRED | 2 |
| □ | com.ibm.ws.wssecurity.impl.auth.module.WSWSSLoginModule | REQUIRED | 4 |
| □ | com.oracle.world.security.WorldSecLogin_WAS | REQUIRED | 3 |
| Total 6 | | | |

Apply | OK | Reset | Cancel

Field help

For field help information, select a field label or list marker when the help cursor is displayed.

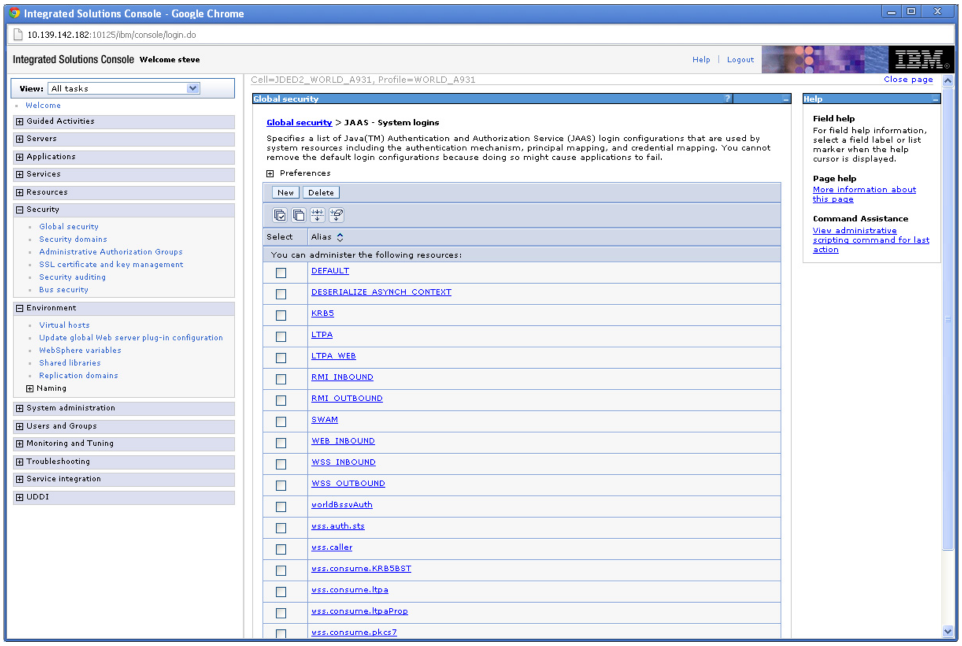
Page help

More information about this page

10.139.142.182:10125/ibm/console/jAASConfigurationEntryCollection.do?EditAction=true&refId=worldBssvAuth&contextId=cells%3AJDED2_WORLD_A931&resourceUri=security.xml&perspective=tab.configuration

14. From the System logins screen click New.

*Figure 5–15 Global Security screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Global security > JAAS - System logins

Specifies a list of Java(TM) Authentication and Authorization Service (JAAS) login configurations that are used by system resources including the authentication mechanism, principal mapping, and credential mapping. You cannot remove the default login configurations because doing so might cause applications to fail.

⊞ Preferences

New | Delete

| Select | Alias |
|---|---|
| You can administer the following resources: | |
| □ | DEFAULT |
| □ | DESERIALIZE_ASYNCH_CONTEXT |
| □ | KRB5 |
| □ | LTPA |
| □ | LTPA_WEB |
| □ | RMI_INBOUND |
| □ | RMI_OUTBOUND |
| □ | SWAM |
| □ | WEB_INBOUND |
| □ | WSS_INBOUND |
| □ | WSS_OUTBOUND |
| □ | worldBssvAuth |
| □ | wss.auth.sts |
| □ | wss.caller |
| □ | wss.consume.KRB5BST |
| □ | wss.consume.ltpa |
| □ | wss.consume.ltpaProp |
| □ | wss.consume.pkcs7 |

Field help

For field help information, select a field label or list marker when the help cursor is displayed.

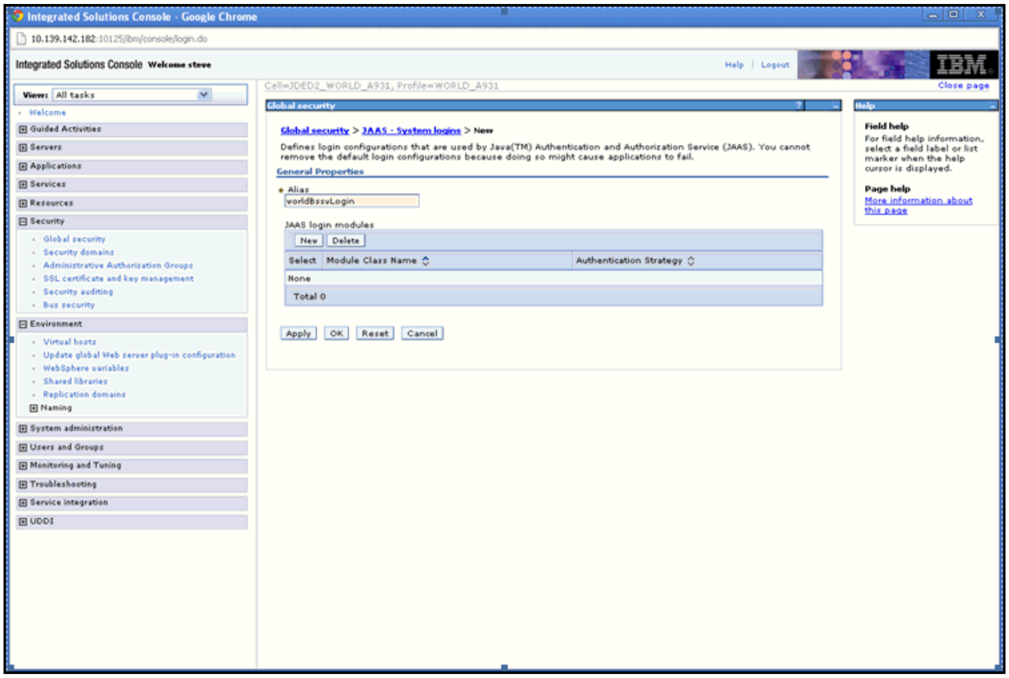
Page help

More information about this page

Command Assistance

View administrative scripting command for last action

*Figure 5–16 Global Security screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Global security > JAAS - System logins > New

Defines login configurations that are used by Java(TM) Authentication and Authorization Service (JAAS). You cannot remove the default login configurations because doing so might cause applications to fail.

General Properties

* Alias: worldBssvLogin

JAAS login modules

New | Delete

| Select | Module Class Name | Authentication Strategy |
|---|---|---|
| None | | |
| Total 0 | | |

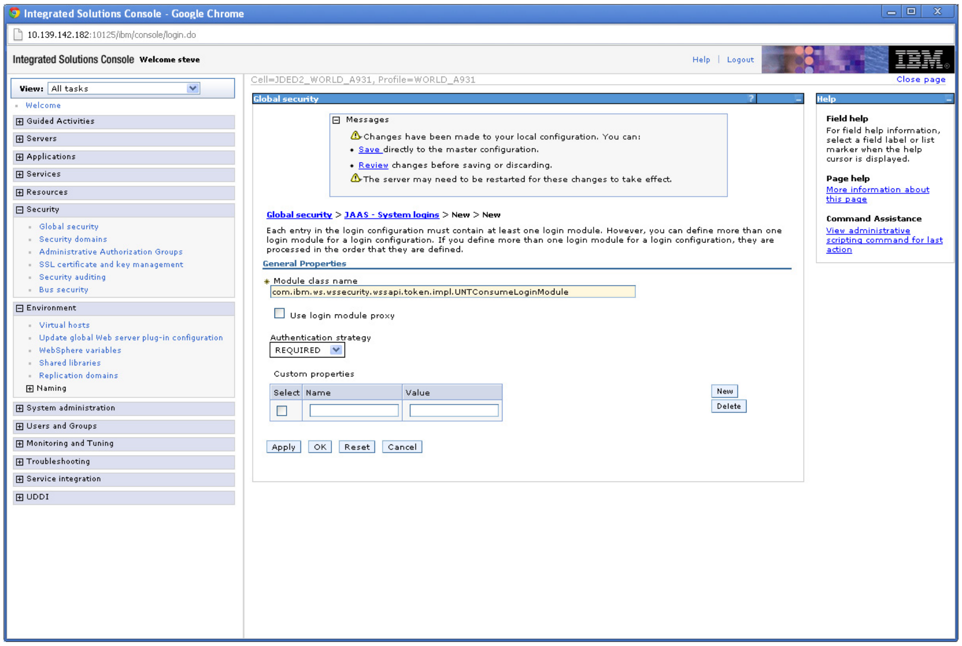
Apply | OK | Reset | Cancel

Field help
For field help information, select a field label or list marker when the help cursor is displayed.

Page help
More information about this page

15. Enter "worldBssvLogin" for the Alias and click New under JAAS login modules.

*Figure 5–17 Global Security screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Messages

- Changes have been made to your local configuration. You can:
- Save directly to the master configuration.
- Review changes before saving or discarding.
- The server may need to be restarted for these changes to take effect.

Global security > JAAS - System logins > New > New

Each entry in the login configuration must contain at least one login module. However, you can define more than one login module for a login configuration. If you define more than one login module for a login configuration, they are processed in the order that they are defined.

General Properties

* Module class name: com.ibm.ws.wssecurity.wssapi.token.impl.UNTConsumeLoginModule

□ Use login module proxy

Authentication strategy: REQUIRED

Custom properties

| Select | Name | Value |
|---|---|---|
| □ | | |

New | Delete

Apply | OK | Reset | Cancel

Field help
For field help information, select a field label or list marker when the help cursor is displayed.

Page help
More information about this page

Command Assistance
View administrative scripting command for last action

16. Enter "com.ibm.ws.wssecurity.wssapi.token.impl.UNTConsumeLoginModule" for the Module class name, and click OK.

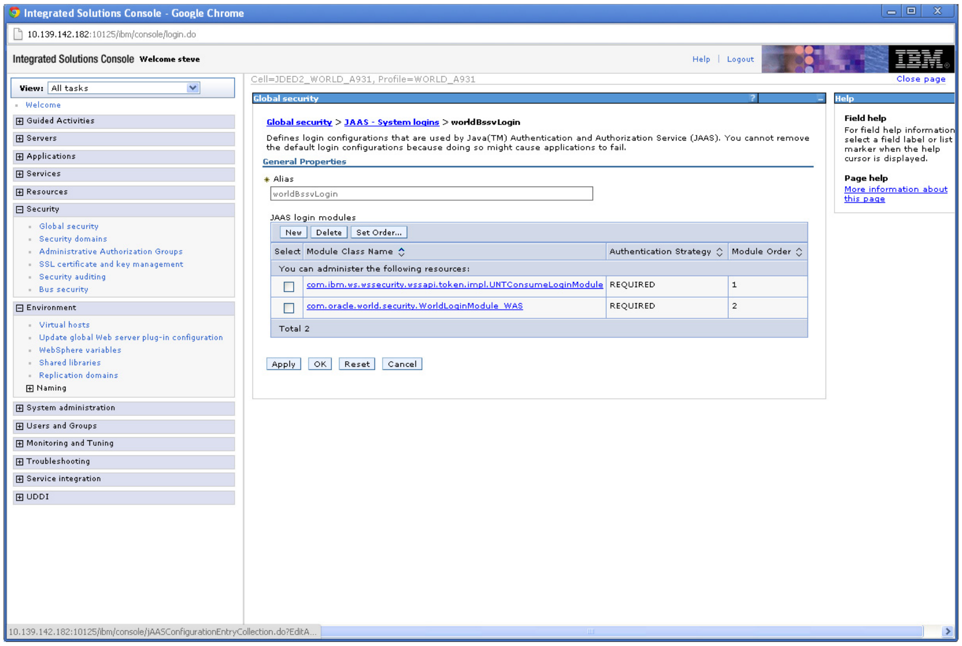
17. Click New and enter "com.oracle.world.security.WorldLoginModule_WAS" for the Module class name.

18. Click the **Use login module proxy** checkbox and click OK.

19. Click Save.

    The worldBssvLogin system login should look like the screen shot below:

*Figure 5–18 Global Security screen*



Global security > JAAS - System logins > worldBssvLogin

Defines login configurations that are used by Java(TM) Authentication and Authorization Service (JAAS). You cannot remove the default login configurations because doing so might cause applications to fail.

General Properties

* Alias

worldBssvLogin

JAAS login modules

| Select | Module Class Name | Authentication Strategy | Module Order |
|---|---|---|---|
| You can administer the following resources: | | | |
| □ | com.ibm.ws.wssecurity.wssapi.token.impl.UNTConsumeLoginModule | REQUIRED | 1 |
| □ | com.oracle.world.security.WorldLoginModule_WAS | REQUIRED | 2 |
| Total 2 | | | |

Field help

For field help information select a field label or list marker when the help cursor is displayed.

Page help

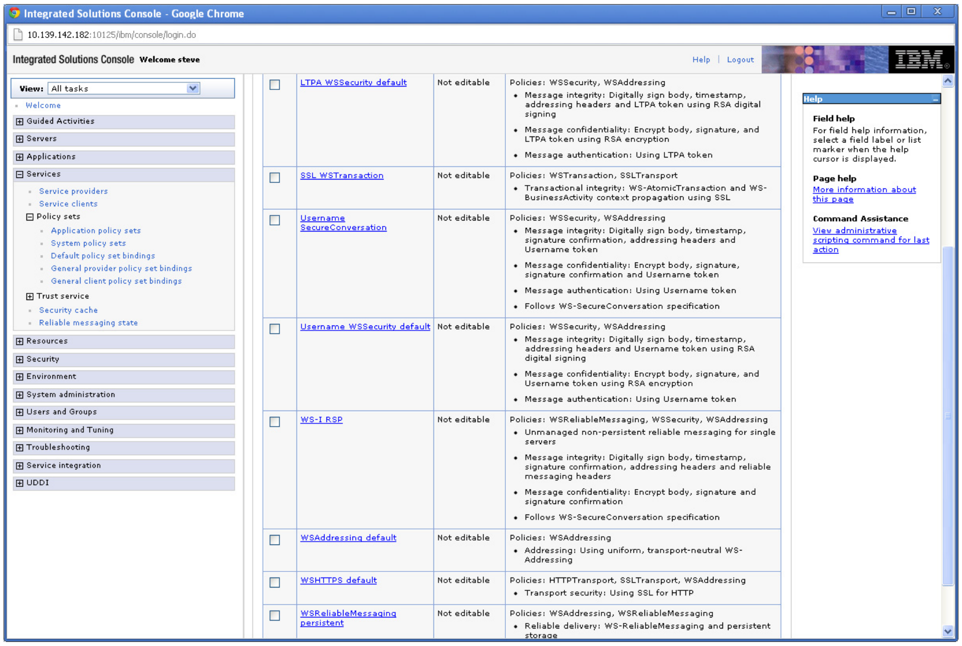
More information about this page

## 5.6 Set Up Policies and Bindings

### To set up policies and bindings

1. From the Integrated Solutions Console, select **Services->Policy sets->Application policy sets**.

### *Figure 5–19 Application Policy Sets screen*



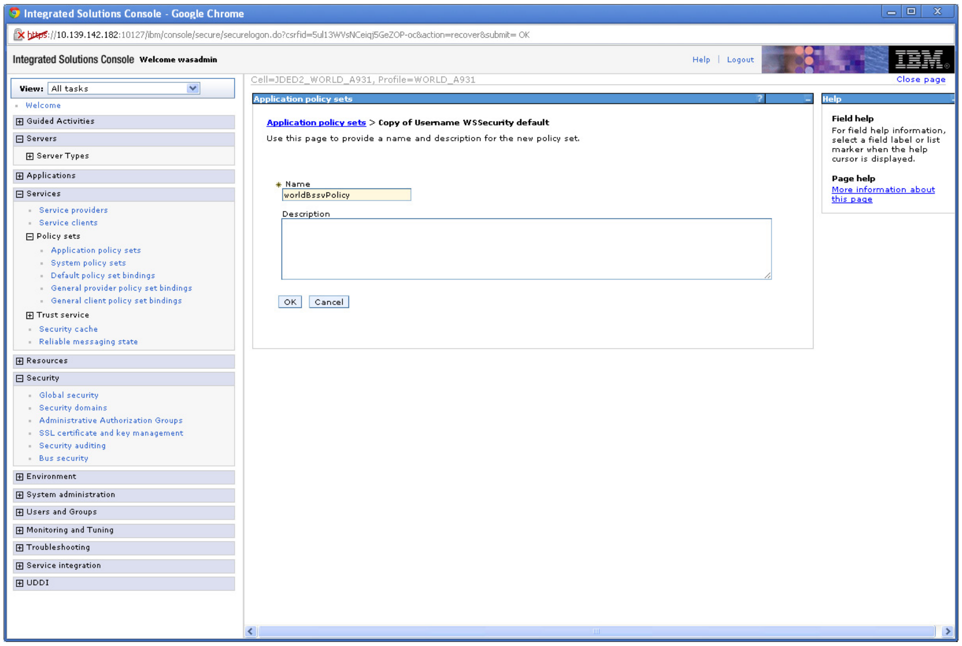
| | | | |
|---|---|---|---|
| □ | LTPA WSSecurity default | Not editable | Policies: WSSecurity, WSAddressing<br>• Message integrity: Digitally sign body, timestamp, addressing headers and LTPA token using RSA digital signing<br>• Message confidentiality: Encrypt body, signature, and LTPA token using RSA encryption<br>• Message authentication: Using LTPA token |
| □ | SSL WSTransaction | Not editable | Policies: WSTransaction, SSLTransport<br>• Transactional integrity: WS-AtomicTransaction and WS-BusinessActivity context propagation using SSL |
| □ | Username SecureConversation | Not editable | Policies: WSSecurity, WSAddressing<br>• Message integrity: Digitally sign body, timestamp, signature confirmation, addressing headers and Username token<br>• Message confidentiality: Encrypt body, signature, signature confirmation and Username token<br>• Message authentication: Using Username token<br>• Follows WS-SecureConversation specification |
| □ | Username WSSecurity default | Not editable | Policies: WSSecurity, WSAddressing<br>• Message integrity: Digitally sign body, timestamp, addressing headers and Username token using RSA digital signing<br>• Message confidentiality: Encrypt body, signature, and Username token using RSA encryption<br>• Message authentication: Using Username token |
| □ | WS-I RSP | Not editable | Policies: WSReliableMessaging, WSSecurity, WSAddressing<br>• Unmanaged non-persistent reliable messaging for single servers<br>• Message integrity: Digitally sign body, timestamp, signature confirmation, addressing headers and reliable messaging headers<br>• Message confidentiality: Encrypt body, signature and signature confirmation<br>• Follows WS-SecureConversation specification |
| □ | WSAddressing default | Not editable | Policies: WSAddressing<br>• Addressing: Using uniform, transport-neutral WS-Addressing |
| □ | WSHTTPS default | Not editable | Policies: HTTPTransport, SSLTransport, WSAddressing<br>• Transport security: Using SSL for HTTP |
| □ | WSReliableMessaging persistent | Not editable | Policies: WSAddressing, WSReliableMessaging<br>• Reliable delivery: WS-ReliableMessaging and persistent storage |

Field help

For field help information, select a field label or list marker when the help cursor is displayed.

2. Select the box next to **Username WSSecurity default** and click Copy.

### *Figure 5–20 Application Policy Sets screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Application policy sets > Copy of Username WSSecurity default

Use this page to provide a name and description for the new policy set.

* Name: worldBssvPolicy

Description:

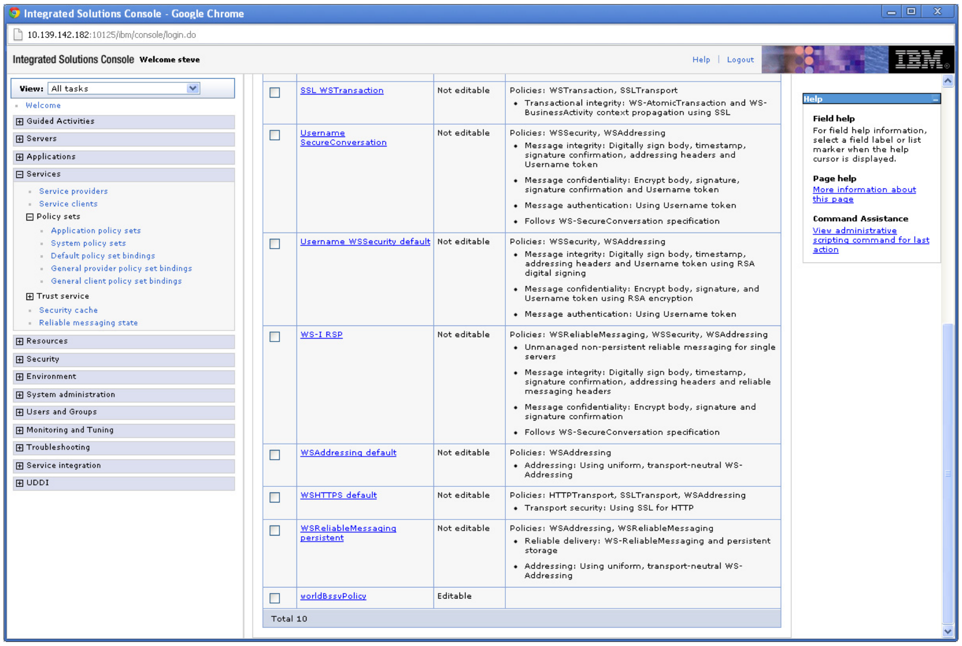
OK | Cancel

Field help

For field help information, select a field label or list marker when the help cursor is displayed.

3. Enter "worldBssvPolicy" for the Name and click OK.

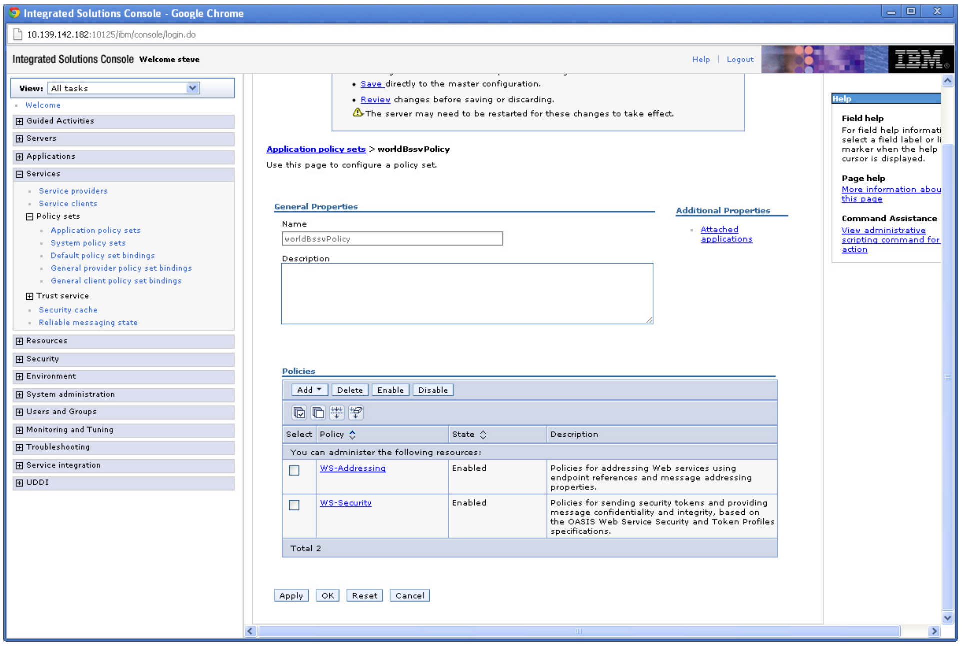
*Figure 5–21 Application Policy Sets screen*


Integrated Solutions Console - Google Chrome
10.139.142.182:10125/ibm/console/login.do
Integrated Solutions Console Welcome steve
Help | Logout
View: All tasks
Welcome
Guided Activities
Servers
Applications
Services
Service providers
Service clients
Policy sets
Application policy sets
System policy sets
Default policy set bindings
General provider policy set bindings
General client policy set bindings
Trust service
Security cache
Reliable messaging state
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page
Command Assistance
View administrative scripting command for last action

| | | | |
|---|---|---|---|
| □ | SSL WSTransaction | Not editable | Policies: WSTransaction, SSLTransport<br>• Transactional integrity: WS-AtomicTransaction and WS-BusinessActivity context propagation using SSL |
| □ | Username SecureConversation | Not editable | Policies: WSSecurity, WSAddressing<br>• Message integrity: Digitally sign body, timestamp, signature confirmation, addressing headers and Username token<br>• Message confidentiality: Encrypt body, signature, signature confirmation and Username token<br>• Message authentication: Using Username token<br>• Follows WS-SecureConversation specification |
| □ | Username WSSecurity default | Not editable | Policies: WSSecurity, WSAddressing<br>• Message integrity: Digitally sign body, timestamp, addressing headers and Username token using RSA digital signing<br>• Message confidentiality: Encrypt body, signature, and Username token using RSA encryption<br>• Message authentication: Using Username token |
| □ | WS-I RSP | Not editable | Policies: WSReliableMessaging, WSSecurity, WSAddressing<br>• Unmanaged non-persistent reliable messaging for single servers<br>• Message integrity: Digitally sign body, timestamp, signature confirmation, addressing headers and reliable messaging headers<br>• Message confidentiality: Encrypt body, signature and signature confirmation<br>• Follows WS-SecureConversation specification |
| □ | WSAddressing default | Not editable | Policies: WSAddressing<br>• Addressing: Using uniform, transport-neutral WS-Addressing |
| □ | WSHTTPS default | Not editable | Policies: HTTPTransport, SSLTransport, WSAddressing<br>• Transport security: Using SSL for HTTP |
| □ | WSReliableMessaging persistent | Not editable | Policies: WSAddressing, WSReliableMessaging<br>• Reliable delivery: WS-ReliableMessaging and persistent storage<br>• Addressing: Using uniform, transport-neutral WS-Addressing |
| □ | worldBssvPolicy | Editable | |
| Total 10 | | | |

4. Select **worldBssvPolicy**.

*Figure 5–22 Application Policy Sets screen*



- Save directly to the master configuration.
- Review changes before saving or discarding.

⚠ The server may need to be restarted for these changes to take effect.

Application policy sets > worldBssvPolicy

Use this page to configure a policy set.

General Properties

Name: worldBssvPolicy

Description:

Additional Properties

- Attached applications

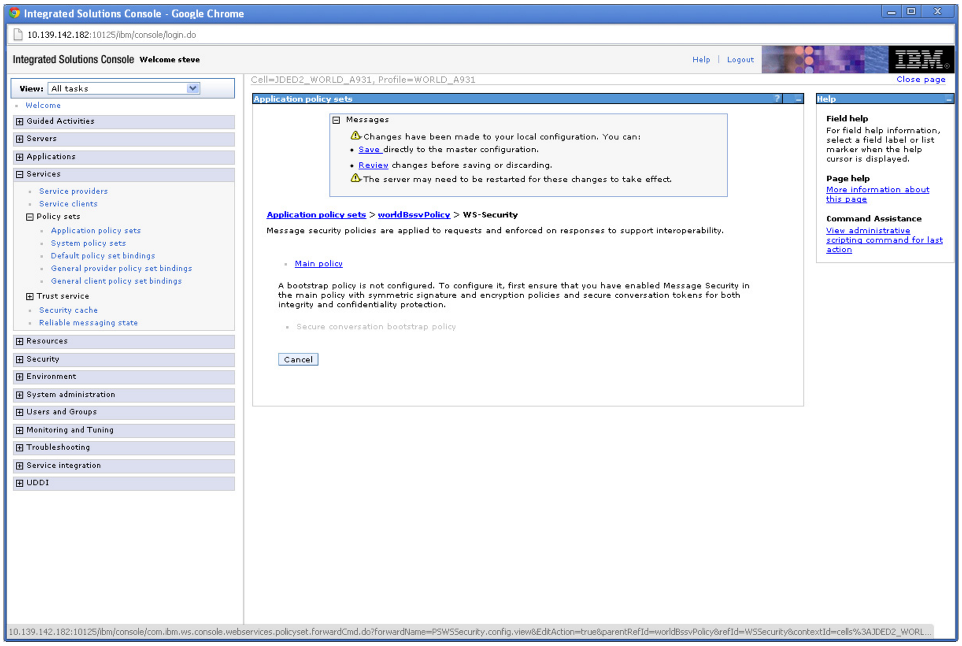
Policies

| Select | Policy | State | Description |
|---|---|---|---|
| You can administer the following resources: | | | |
| □ | WS-Addressing | Enabled | Policies for addressing Web services using endpoint references and message addressing properties. |
| □ | WS-Security | Enabled | Policies for sending security tokens and providing message confidentiality and integrity, based on the OASIS Web Service Security and Token Profiles specifications. |
| Total 2 | | | |

5. Check the box next to **WS-Addressing** and click Delete.

6. Click on **WS-Security**.

***Figure 5–23 Application Policy Sets screen***


Integrated Solutions Console - Google Chrome
10.139.142.182:10125/ibm/console/login.do
Integrated Solutions Console Welcome steve
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
Services
Service providers
Service clients
Policy sets
Application policy sets
System policy sets
Default policy set bindings
General provider policy set bindings
General client policy set bindings
Trust service
Security cache
Reliable messaging state
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Close page
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page
Command Assistance
View administrative scripting command for last action
10.139.142.182:10125/ibm/console/com.ibm.ws.console.webservices.policyset.forwardCmd.do?forwardName=PSWSSecurity.config.view&EditAction=true&parentRefId=worldBssvPolicy&refId=WSSecurity&contextId=cells%3AJDED2_WORL...

Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Application policy sets

Messages

⚠ Changes have been made to your local configuration. You can:

- Save directly to the master configuration.
- Review changes before saving or discarding.

⚠ The server may need to be restarted for these changes to take effect.

Application policy sets > worldBssvPolicy > WS-Security

Message security policies are applied to requests and enforced on responses to support interoperability.

- Main policy

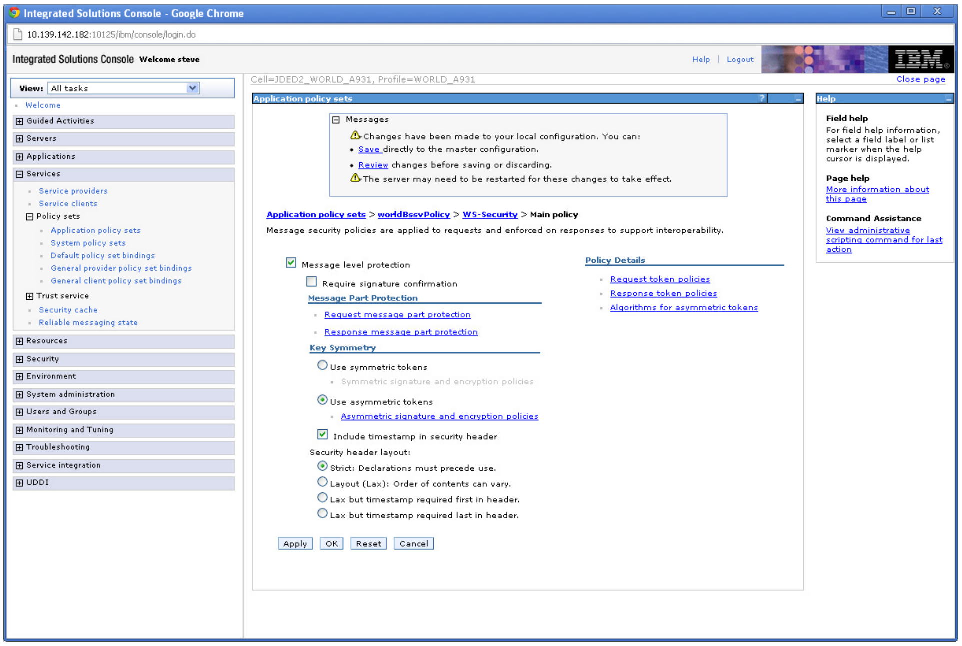
A bootstrap policy is not configured. To configure it, first ensure that you have enabled Message Security in the main policy with symmetric signature and encryption policies and secure conversation tokens for both integrity and confidentiality protection.

- Secure conversation bootstrap policy

Cancel

**7.** Click on **Main policy**.

***Figure 5–24 Application Policy Sets screen***


Integrated Solutions Console - Google Chrome
10.139.142.182:10125/ibm/console/login.do
Integrated Solutions Console Welcome steve
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
Services
Service providers
Service clients
Policy sets
Application policy sets
System policy sets
Default policy set bindings
General provider policy set bindings
General client policy set bindings
Trust service
Security cache
Reliable messaging state
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UDDI
Close page
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page
Command Assistance
View administrative scripting command for last action

Cell=JDED2_WORLD_A931, Profile=WORLD_A931

Application policy sets

Messages

⚠ Changes have been made to your local configuration. You can:

- Save directly to the master configuration.
- Review changes before saving or discarding.

⚠ The server may need to be restarted for these changes to take effect.

Application policy sets > worldBssvPolicy > WS-Security > Main policy

Message security policies are applied to requests and enforced on responses to support interoperability.

☑ Message level protection

☐ Require signature confirmation

Message Part Protection

- Request message part protection
- Response message part protection

Key Symmetry

○ Use symmetric tokens

- Symmetric signature and encryption policies

● Use asymmetric tokens

- Asymmetric signature and encryption policies

☑ Include timestamp in security header

Security header layout:

● Strict: Declarations must precede use.
○ Layout (Lax): Order of contents can vary.
○ Lax but timestamp required first in header.
○ Lax but timestamp required last in header.

Policy Details

- Request token policies
- Response token policies
- Algorithms for asymmetric tokens

Apply OK Reset Cancel

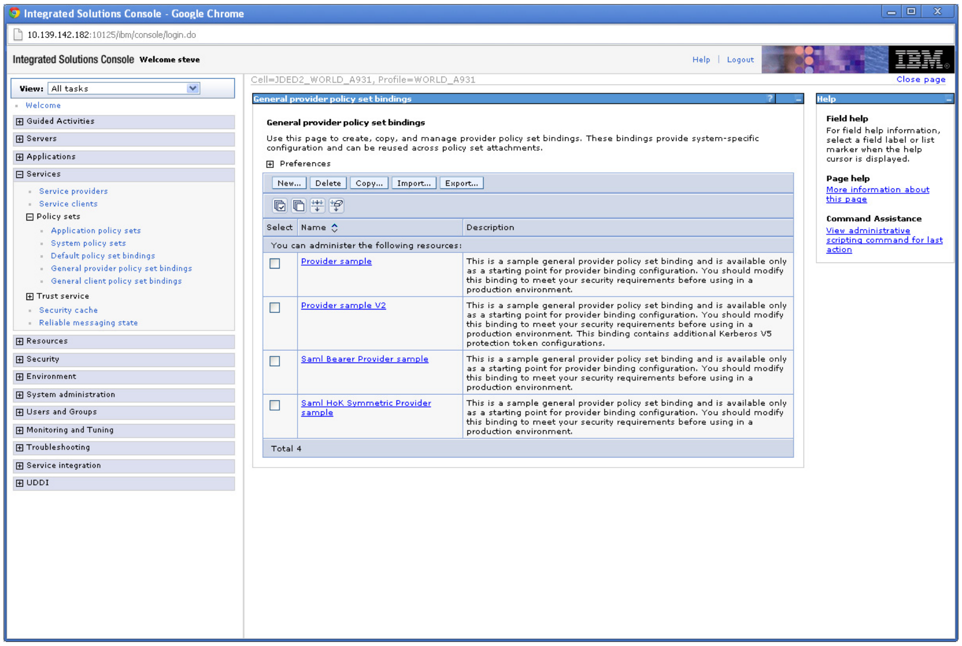
**8.** Uncheck the box next to **Message level protection**.

**9.** Click OK.

**10.** Click Save.

**11.** On the left hand menu, select **General provider policy set bindings**.

*Figure 5–25 General Provider Policy Set Bindings screen*



**General provider policy set bindings**

Use this page to create, copy, and manage provider policy set bindings. These bindings provide system-specific configuration and can be reused across policy set attachments.

| Select | Name | Description |
|---|---|---|
| You can administer the following resources: | | |
| □ | Provider sample | This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment. |
| □ | Provider sample V2 | This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment. This binding contains additional Kerberos V5 protection token configurations. |
| □ | Saml Bearer Provider sample | This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment. |
| □ | Saml HoK Symmetric Provider sample | This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment. |
| Total 4 | | |

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

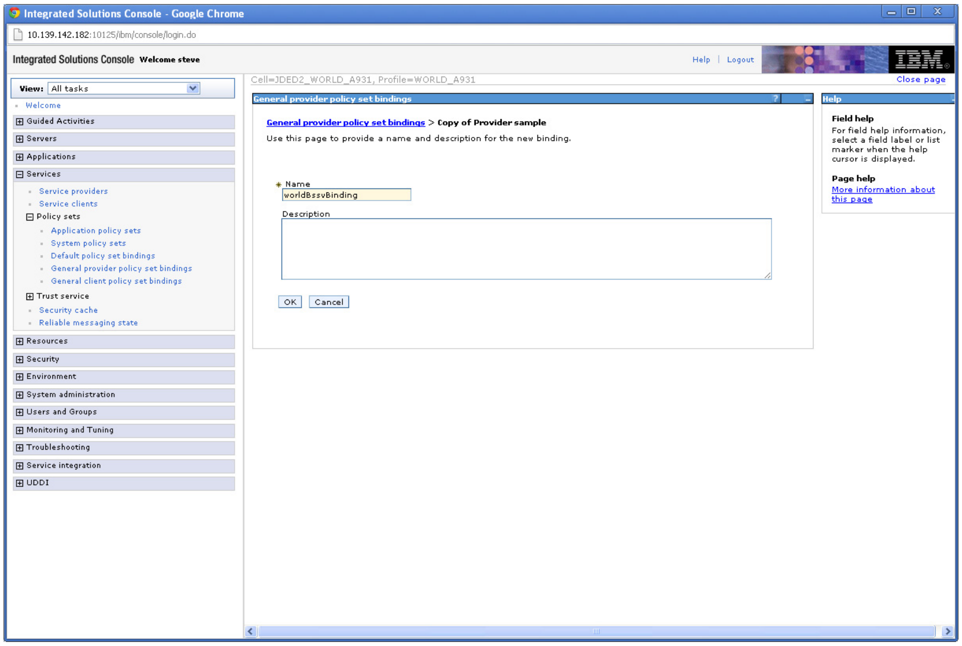
More information about this page

**Command Assistance**

View administrative scripting command for last action

12. Check the box next to **Provider sample** and click Copy.

*Figure 5–26 General Provider Policy Set Bindings screen*



General provider policy set bindings > **Copy of Provider sample**

Use this page to provide a name and description for the new binding.

* Name: worldBssvBinding

Description:

**Field help**

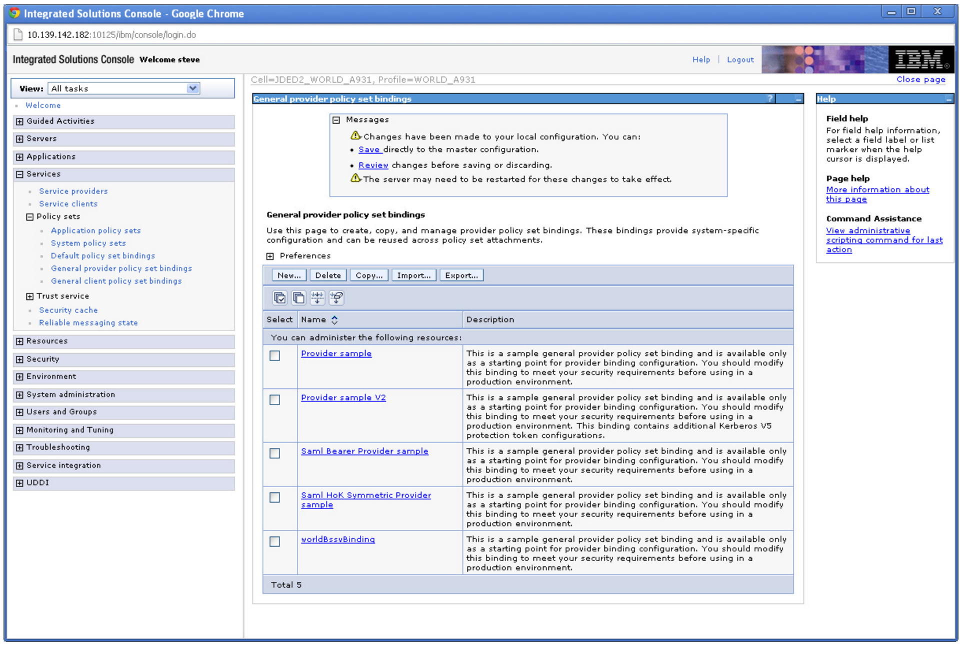
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

More information about this page

13. Enter "worldBssvBinding" in the Name field and click OK.

*Figure 5–27 General Provider Policy Set Bindings screen*


Integrated Solutions Console - Google Chrome
10.139.142.182:10125/ibm/console/login.do
Integrated Solutions Console Welcome steve
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
Services
Service providers
Service clients
Policy sets
Application policy sets
System policy sets
Default policy set bindings
General provider policy set bindings
General client policy set bindings
Trust service
Security cache
Reliable messaging state
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Close page
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page
Command Assistance
View administrative scripting command for last action

Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings

Messages

- Changes have been made to your local configuration. You can:
- Save directly to the master configuration.
- Review changes before saving or discarding.
- The server may need to be restarted for these changes to take effect.

**General provider policy set bindings**

Use this page to create, copy, and manage provider policy set bindings. These bindings provide system-specific configuration and can be reused across policy set attachments.

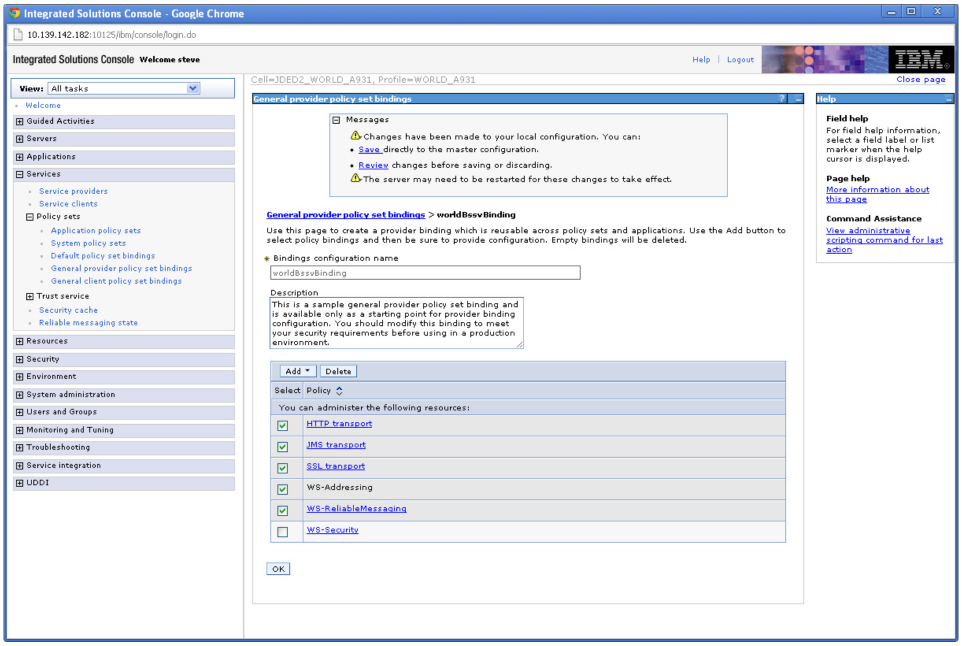
Preferences

New... | Delete | Copy... | Import... | Export...

| Select | Name | Description |
|---|---|---|
| You can administer the following resources: | | |
| □ | Provider sample | This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment. |
| □ | Provider sample V2 | This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment. This binding contains additional Kerberos V5 protection token configurations. |
| □ | Saml Bearer Provider sample | This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment. |
| □ | Saml HoK Symmetric Provider sample | This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment. |
| □ | worldBssvBinding | This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment. |
| Total 5 | | |

14. Select **worldBssvBinding**.

*Figure 5–28 General Provider Policy Set Bindings screen*


Integrated Solutions Console - Google Chrome
10.139.142.182:10125/ibm/console/login.do
Integrated Solutions Console Welcome steve
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
Services
Service providers
Service clients
Policy sets
Application policy sets
System policy sets
Default policy set bindings
General provider policy set bindings
General client policy set bindings
Trust service
Security cache
Reliable messaging state
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Close page
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page
Command Assistance
View administrative scripting command for last action

Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings

Messages

- Changes have been made to your local configuration. You can:
- Save directly to the master configuration.
- Review changes before saving or discarding.
- The server may need to be restarted for these changes to take effect.

**General provider policy set bindings > worldBssvBinding**

Use this page to create a provider binding which is reusable across policy sets and applications. Use the Add button to select policy bindings and then be sure to provide configuration. Empty bindings will be deleted.

* Bindings configuration name: worldBssvBinding

Description: This is a sample general provider policy set binding and is available only as a starting point for provider binding configuration. You should modify this binding to meet your security requirements before using in a production environment.

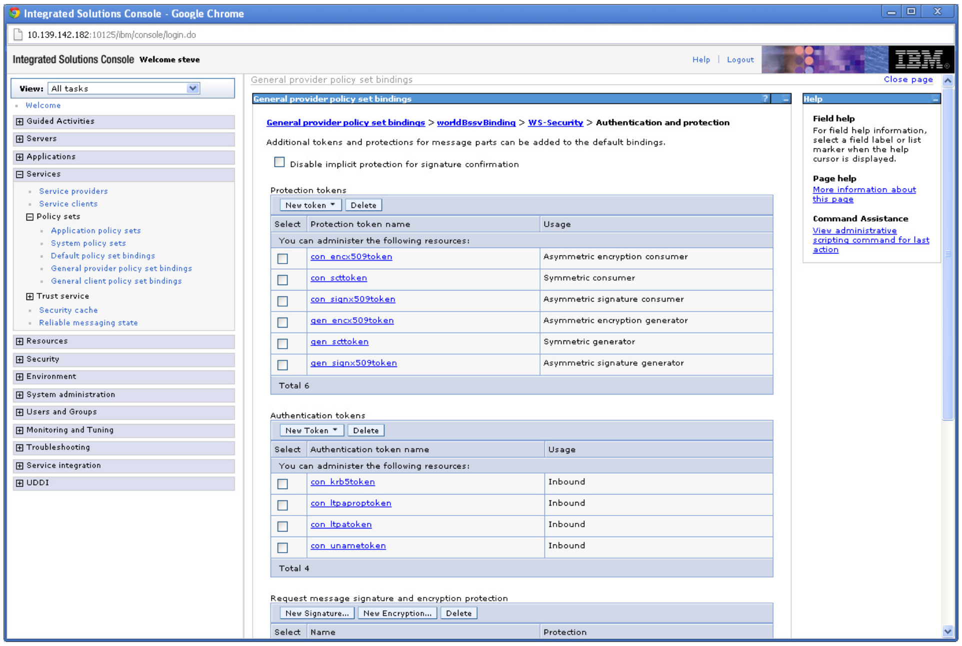
Add | Delete

| Select | Policy |
|---|---|
| You can administer the following resources: | |
| ☑ | HTTP transport |
| ☑ | JMS transport |
| ☑ | SSL transport |
| ☑ | WS-Addressing |
| ☑ | WS-ReliableMessaging |
| □ | WS-Security |

OK

15. Check all the boxes EXCEPT WS-Security and click Delete.
16. Click OK.
17. Click Save.
18. Select **worldBssvBinding->WS-Security->Authentication and protection**.

### *Figure 5–29 General Provider Policy Set Bindings screen*



General provider policy set bindings

**General provider policy set bindings**

General provider policy set bindings > worldBssvBinding > WS-Security > **Authentication and protection**

Additional tokens and protections for message parts can be added to the default bindings.

□ Disable implicit protection for signature confirmation

Protection tokens

| Select | Protection token name | Usage |
|---|---|---|
| You can administer the following resources: | | |
| □ | con_encx509token | Asymmetric encryption consumer |
| □ | con_scttoken | Symmetric consumer |
| □ | con_signx509token | Asymmetric signature consumer |
| □ | gen_encx509token | Asymmetric encryption generator |
| □ | gen_scttoken | Symmetric generator |
| □ | gen_signx509token | Asymmetric signature generator |
| Total 6 | | |

Authentication tokens

| Select | Authentication token name | Usage |
|---|---|---|
| You can administer the following resources: | | |
| □ | con_krb5token | Inbound |
| □ | con_ltpaproptoken | Inbound |
| □ | con_ltpatoken | Inbound |
| □ | con_unametoken | Inbound |
| Total 4 | | |

Request message signature and encryption protection

| Select | Name | Protection |
|---|---|---|

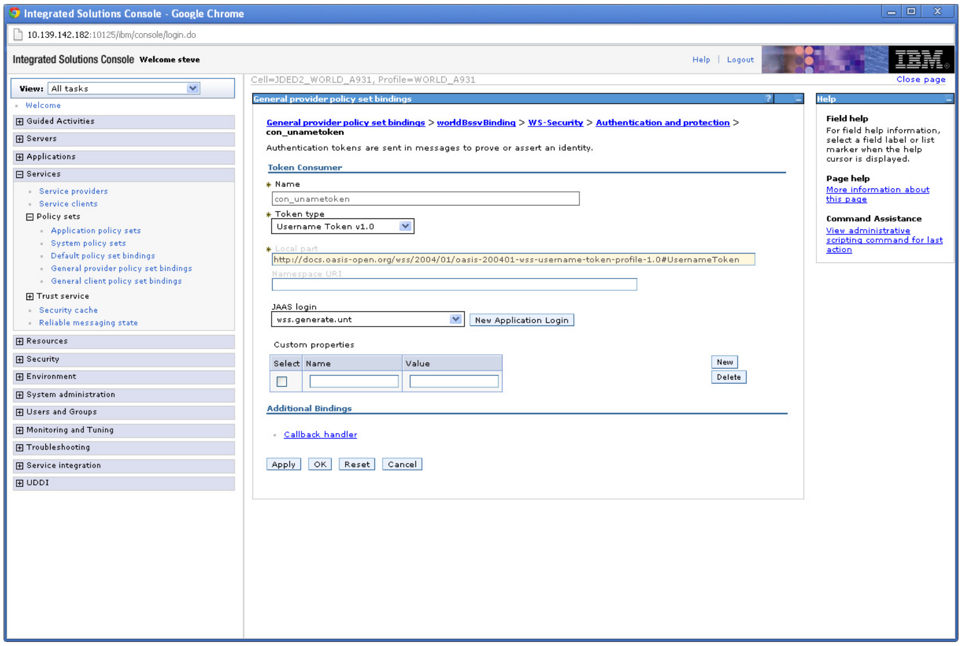
**Field help**
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**
More information about this page

**Command Assistance**
View administrative scripting command for last action

19. Under **Authentication tokens** select **con_unametoken**.

### *Figure 5–30 General Provider Policy Set Bindings screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

**General provider policy set bindings**

General provider policy set bindings > worldBssvBinding > WS-Security > Authentication and protection > **con_unametoken**

Authentication tokens are sent in messages to prove or assert an identity.

**Token Consumer**

* Name: con_unametoken

* Token type: Username Token v1.0

* Local part: http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#UsernameToken

Namespace URI:

JAAS login: wss.generate.unt

Custom properties

| Select | Name | Value |
|---|---|---|
| □ | | |

**Additional Bindings**

- Callback handler

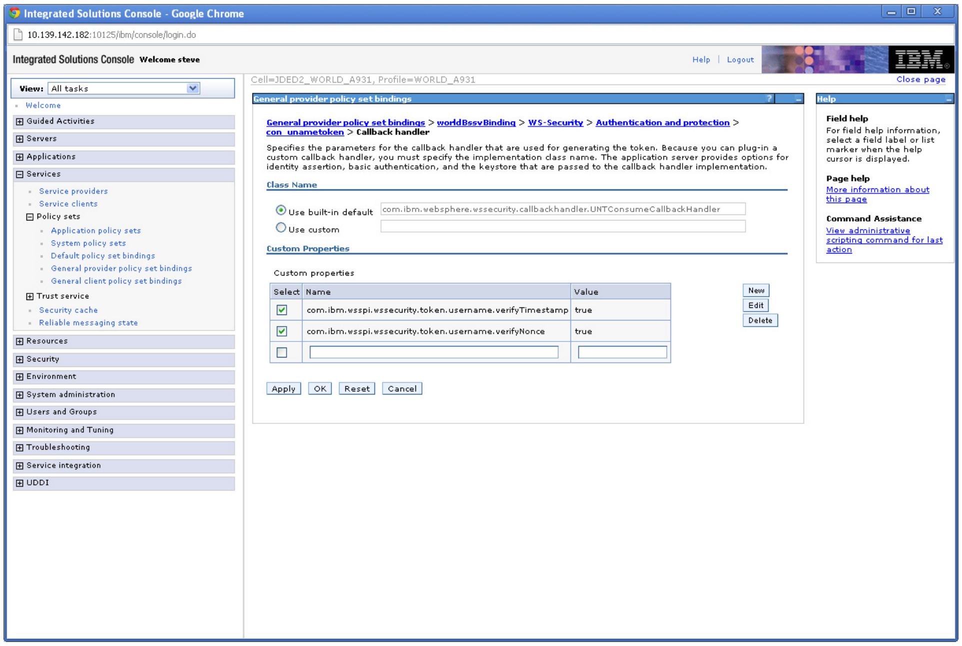
**Field help**
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**
More information about this page

**Command Assistance**
View administrative scripting command for last action

20. Select **Callback handler**.

### Figure 5–31 General Provider Policy Set Bindings screen



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings

General provider policy set bindings > worldBssvBinding > WS-Security > Authentication and protection > con_unametoken > Callback handler

Specifies the parameters for the callback handler that are used for generating the token. Because you can plug-in a custom callback handler, you must specify the implementation class name. The application server provides options for identity assertion, basic authentication, and the keystore that are passed to the callback handler implementation.

Class Name

● Use built-in default com.ibm.websphere.wssecurity.callbackhandler.UNTConsumeCallbackHandler

○ Use custom

Custom Properties

Custom properties

| Select | Name | Value |
|---|---|---|
| ☑ | com.ibm.wsspi.wssecurity.token.username.verifyTimestamp | true |
| ☑ | com.ibm.wsspi.wssecurity.token.username.verifyNonce | true |
| □ | | |

Help

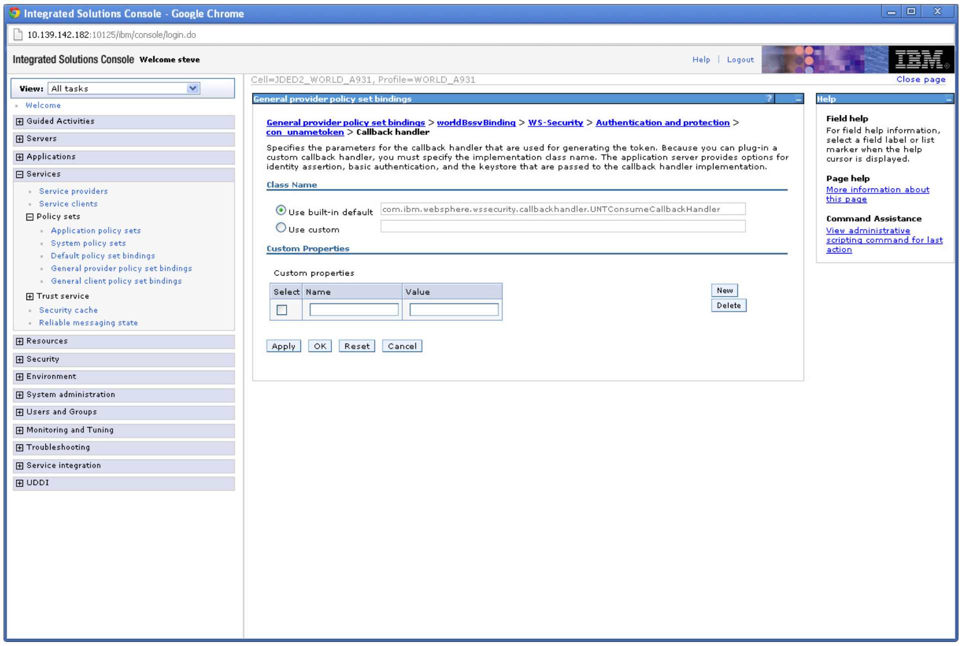
Field help
For field help information, select a field label or list marker when the help cursor is displayed.

Page help
More information about this page

Command Assistance
View administrative scripting command for last action

21. Check the boxes next to the two **Custom properties** and click Delete.

### Figure 5–32 General Provider Policy Set Bindings screen



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings

General provider policy set bindings > worldBssvBinding > WS-Security > Authentication and protection > con_unametoken > Callback handler

Specifies the parameters for the callback handler that are used for generating the token. Because you can plug-in a custom callback handler, you must specify the implementation class name. The application server provides options for identity assertion, basic authentication, and the keystore that are passed to the callback handler implementation.

Class Name

● Use built-in default com.ibm.websphere.wssecurity.callbackhandler.UNTConsumeCallbackHandler

○ Use custom

Custom Properties

Custom properties

| Select | Name | Value |
|---|---|---|
| □ | | |

Help

Field help
For field help information, select a field label or list marker when the help cursor is displayed.

Page help
More information about this page

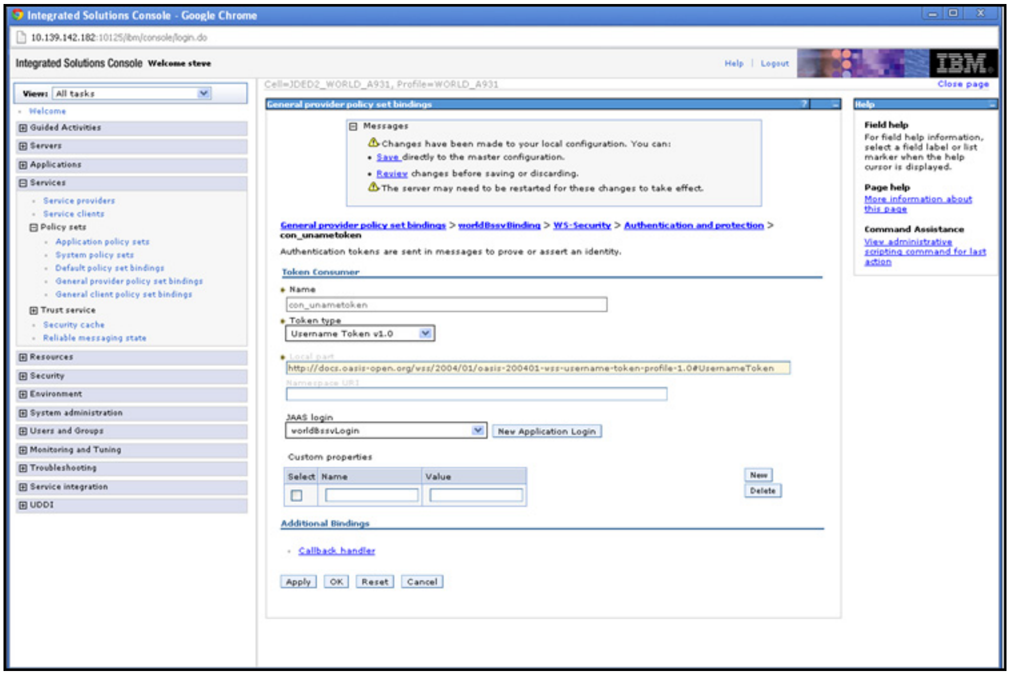
Command Assistance
View administrative scripting command for last action

22. Under Custom properties, enter" com.ibm.wsspi.wssecurity.token.UsernameToken.authDeferred" in the Name field.

23. Enter "true" in the Value field.

24. Click OK.

*Figure 5–33 General Provider Policy Set Bindings screen*


Integrated Solutions Console - Google Chrome
10.139.142.182:10125/ibm/console/login.do
Integrated Solutions Console Welcome steve
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
Services
Service providers
Service clients
Policy sets
Application policy sets
System policy sets
Default policy set bindings
General provider policy set bindings
General client policy set bindings
Trust service
Security cache
Reliable messaging state
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Close page
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page
Command Assistance
View administrative scripting command for last action

Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings

Messages

- Changes have been made to your local configuration. You can:
- Save directly to the master configuration.
- Review changes before saving or discarding.
- The server may need to be restarted for these changes to take effect.

General provider policy set bindings > worldBssvBinding > WS-Security > Authentication and protection > con_unametoken

Authentication tokens are sent in messages to prove or assert an identity.

Token Consumer

* Name: con_unametoken

* Token type: Username Token v1.0

* Local part: http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#UsernameToken

Namespace URI:

JAAS login: worldBssvLogin [New Application Login]

Custom properties

| Select | Name | Value |
|---|---|---|
| □ | | |

[New] [Delete]

Additional Bindings

- Callback handler

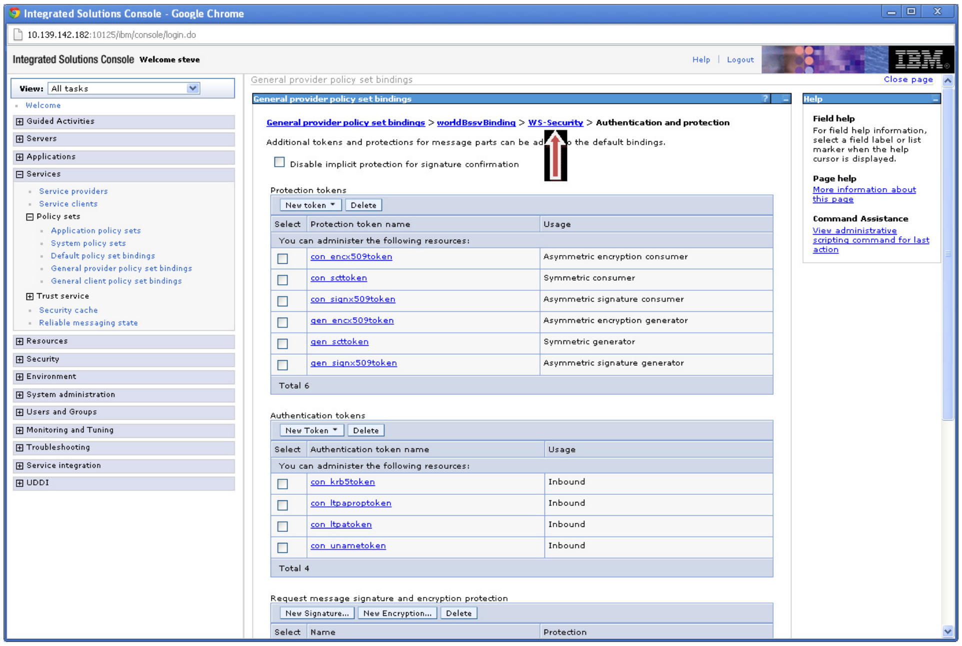
[Apply] [OK] [Reset] [Cancel]

25. In the **JAAS login dropdown** box, select **worldBssvLogin**.

26. Click OK.

27. Click Save.

*Figure 5–34 General Provider Policy Set Bindings screen*


Integrated Solutions Console - Google Chrome
10.139.142.182:10125/ibm/console/login.do
Integrated Solutions Console Welcome steve
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
Services
Service providers
Service clients
Policy sets
Application policy sets
System policy sets
Default policy set bindings
General provider policy set bindings
General client policy set bindings
Trust service
Security cache
Reliable messaging state
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Close page
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page
Command Assistance
View administrative scripting command for last action

General provider policy set bindings

General provider policy set bindings > worldBssvBinding > WS-Security > Authentication and protection

Additional tokens and protections for message parts can be ad o the default bindings.

□ Disable implicit protection for signature confirmation

Protection tokens

[New token ▾] [Delete]

| Select | Protection token name | Usage |
|---|---|---|
| You can administer the following resources: | | |
| □ | con_encx509token | Asymmetric encryption consumer |
| □ | con_scttoken | Symmetric consumer |
| □ | con_signx509token | Asymmetric signature consumer |
| □ | gen_encx509token | Asymmetric encryption generator |
| □ | gen_scttoken | Symmetric generator |
| □ | gen_signx509token | Asymmetric signature generator |
| Total 6 | | |

Authentication tokens

[New Token ▾] [Delete]

| Select | Authentication token name | Usage |
|---|---|---|
| You can administer the following resources: | | |
| □ | con_krb5token | Inbound |
| □ | con_ltpaproptoken | Inbound |
| □ | con_ltpatoken | Inbound |
| □ | con_unametoken | Inbound |
| Total 4 | | |

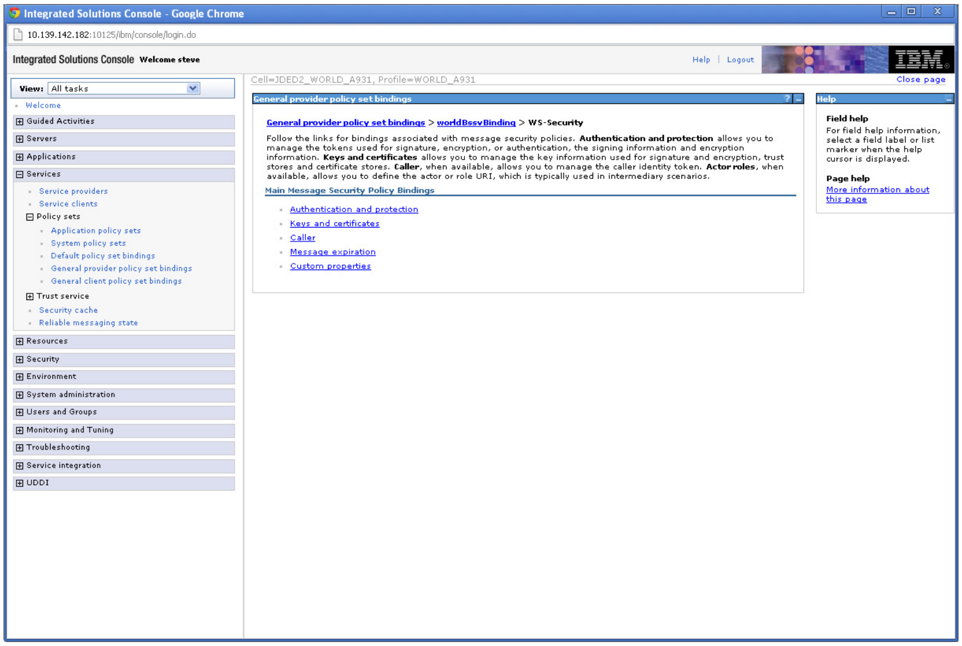
Request message signature and encryption protection

[New Signature...] [New Encryption...] [Delete]

| Select | Name | Protection |
|---|---|---|

28. In the breadcrumb menu, select **WS-Security**.

*Figure 5–35 General Provider Policy Set Bindings screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings

General provider policy set bindings > worldBssvBinding > WS-Security

Follow the links for bindings associated with message security policies. **Authentication and protection** allows you to manage the tokens used for signature, encryption, or authentication, the signing information and encryption information. **Keys and certificates** allows you to manage the key information used for signature and encryption, trust stores and certificate stores. **Caller**, when available, allows you to manage the caller identity token. **Actor roles**, when available, allows you to define the actor or role URI, which is typically used in intermediary scenarios.

Main Message Security Policy Bindings

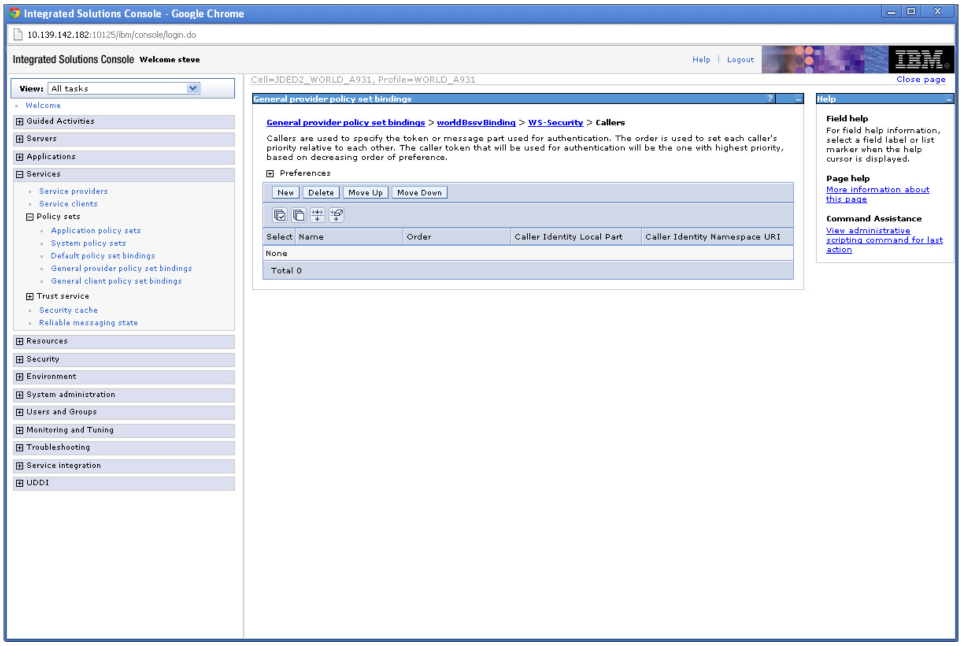
- Authentication and protection
- Keys and certificates
- Caller
- Message expiration
- Custom properties

**Field help**
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**
More information about this page

29. Select **Caller**.

*Figure 5–36 General Provider Policy Set Bindings screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings

General provider policy set bindings > worldBssvBinding > WS-Security > Callers

Callers are used to specify the token or message part used for authentication. The order is used to set each caller's priority relative to each other. The caller token that will be used for authentication will be the one with highest priority, based on decreasing order of preference.

| Select | Name | Order | Caller Identity Local Part | Caller Identity Namespace URI |
|---|---|---|---|---|
| None | | | | |
| Total 0 | | | | |

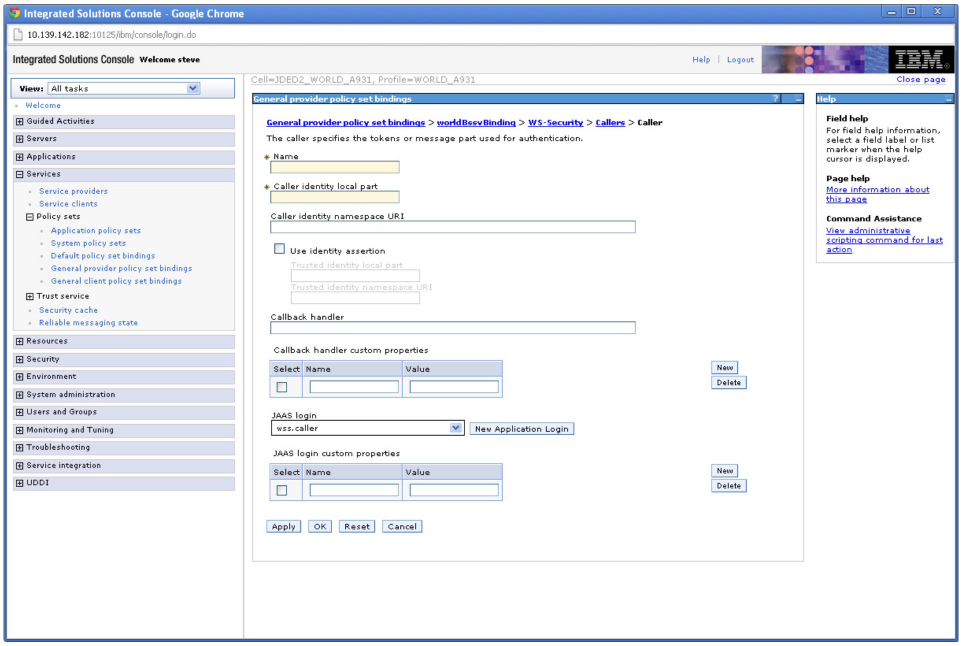
**Field help**
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**
More information about this page

**Command Assistance**
View administrative scripting command for last action

30. Click New.

*Figure 5–37 General Provider Policy Set Bindings screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings

General provider policy set bindings > worldBssvBinding > WS-Security > Callers > Caller

The caller specifies the tokens or message part used for authentication.

* Name:

* Caller identity local part:

Caller identity namespace URI:

□ Use identity assertion

Trusted identity local part:

Trusted identity namespace URI:

Callback handler:

Callback handler custom properties

| Select | Name | Value |
|---|---|---|
| □ | | |

JAAS login: wss.caller

JAAS login custom properties

| Select | Name | Value |
|---|---|---|
| □ | | |

**Field help**
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**
More information about this page

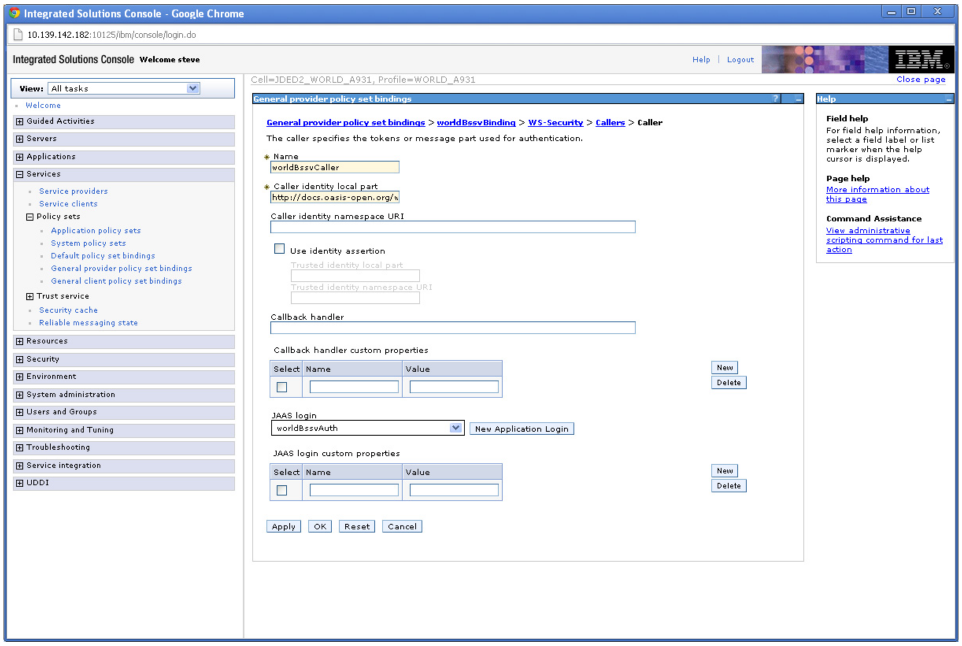
**Command Assistance**
View administrative scripting command for last action

31. Enter "worldBssvCaller" in the Name field.

32. Enter "http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#UsernameToken" in the Caller identity local part field.

33. In the **JAAS login dropdown**, select **worldBssvAuth**.

*Figure 5–38 General Provider Policy Set Bindings screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings

General provider policy set bindings > worldBssvBinding > WS-Security > Callers > Caller

The caller specifies the tokens or message part used for authentication.

* Name: worldBssvCaller

* Caller identity local part: http://docs.oasis-open.org/w

Caller identity namespace URI:

□ Use identity assertion

Trusted identity local part:

Trusted identity namespace URI:

Callback handler:

Callback handler custom properties

| Select | Name | Value |
|---|---|---|
| □ | | |

JAAS login: worldBssvAuth

JAAS login custom properties

| Select | Name | Value |
|---|---|---|
| □ | | |

**Field help**
For field help information, select a field label or list marker when the help cursor is displayed.

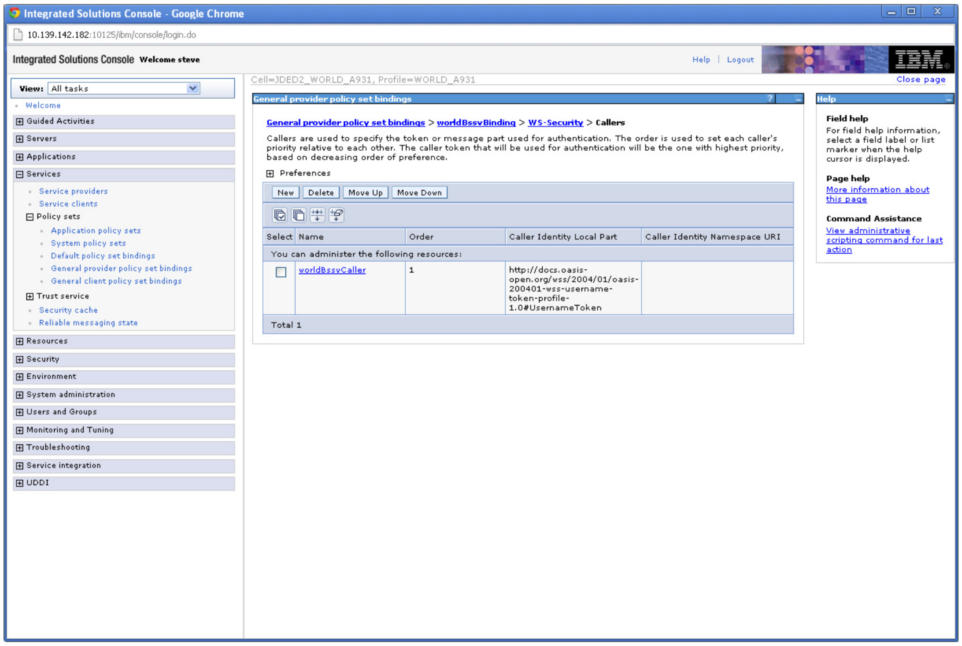
**Page help**
More information about this page

**Command Assistance**
View administrative scripting command for last action

34. Click OK.

35. Click Save.

*Figure 5–39 General Provider Poliicy Set Bindings screen*



Cell=JDED2_WORLD_A931, Profile=WORLD_A931

General provider policy set bindings > worldBssvBinding > WS-Security > Callers

Callers are used to specify the token or message part used for authentication. The order is used to set each caller's priority relative to each other. The caller token that will be used for authentication will be the one with highest priority, based on decreasing order of preference.

| Select | Name | Order | Caller Identity Local Part | Caller Identity Namespace URI |
|---|---|---|---|---|
| You can administer the following resources: | | | | |
| □ | worldBssvCaller | 1 | http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#UsernameToken | |
| Total 1 | | | | |

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

More information about this page

**Command Assistance**

View administrative scripting command for last action

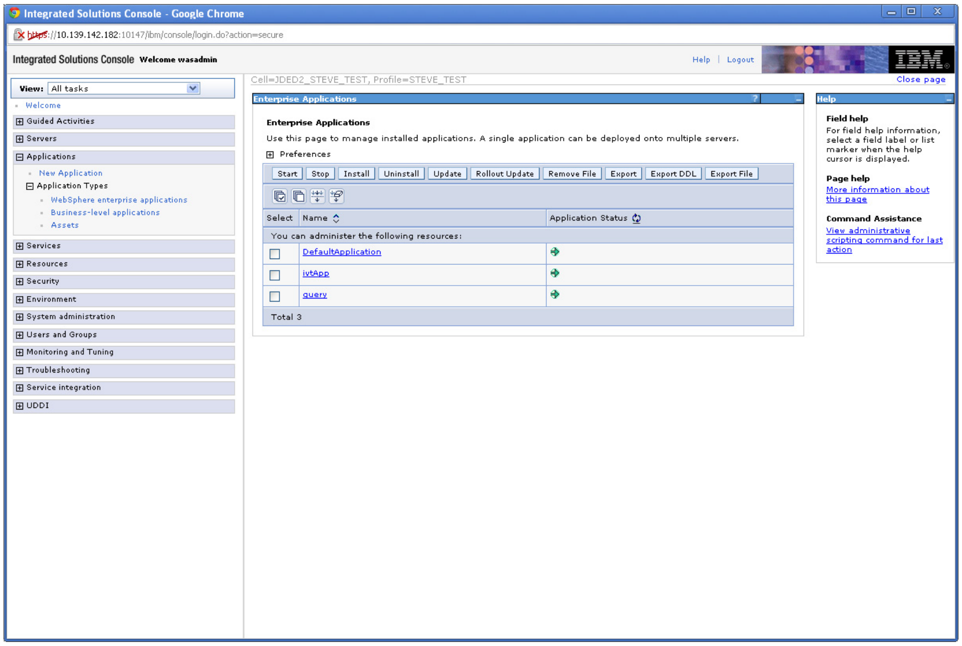
36. Restart the server.

## 5.7 Deploy Services

### To deploy services

1. From the Integrated Solutions Console, select **Applications->Application Types->WebSphere enterprise applications**.

*Figure 5–40 Enterprise Applications screen*



Cell=JDED2_STEVE_TEST, Profile=STEVE_TEST

**Enterprise Applications**

Use this page to manage installed applications. A single application can be deployed onto multiple servers.

| Select | Name | Application Status |
|---|---|---|
| You can administer the following resources: | | |
| □ | DefaultApplication | ➔ |
| □ | ivtApp | ➔ |
| □ | query | ➔ |
| Total 3 | | |

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

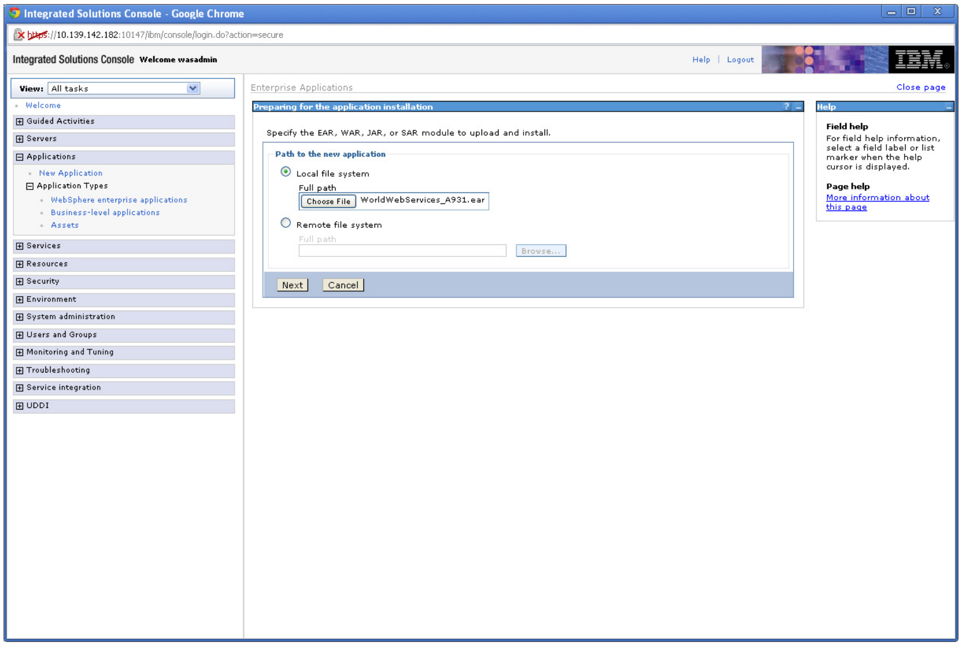
More information about this page

**Command Assistance**

View administrative scripting command for last action

2. Click Install.

*Figure 5–41    Preparing for the Application Installation screen*



Preparing for the application installation

Specify the EAR, WAR, JAR, or SAR module to upload and install.

Path to the new application

● Local file system

Full path

Choose File WorldWebServices_A931.ear

○ Remote file system

Full path

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

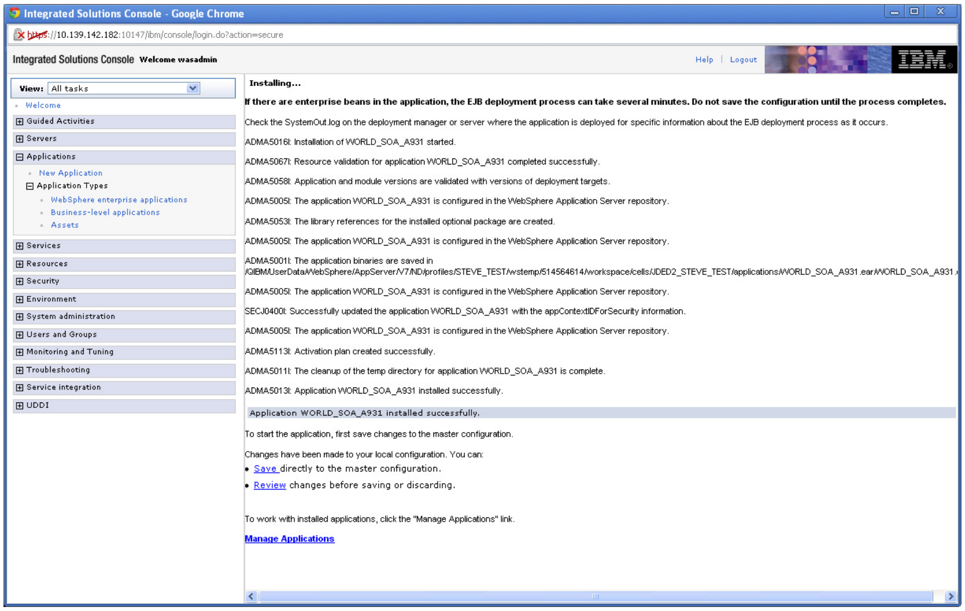
More information about this page

3. Click **Choose File**, navigate to folder where the .ear file was downloaded, and select the **WorldWebServices_A931.ear** file.
4. On the **Preparing for the application installation** screen, click Next.
5. On the **Select installation options** screen, click Next.
6. On the **Map modules to servers** screen, click Next.
7. On the **Map virtual hosts for Web modules** screen, click Next.
8. On the **Summary** screen, click Finish.

   The following screen should be displayed:

**Note:** This can take several minutes.

### Figure 5–42 Intallation screen



**Installing...**

**If there are enterprise beans in the application, the EJB deployment process can take several minutes. Do not save the configuration until the process completes.**

Check the SystemOut.log on the deployment manager or server where the application is deployed for specific information about the EJB deployment process as it occurs.

```
ADMA5016I: Installation of WORLD_SOA_A931 started.

ADMA5067I: Resource validation for application WORLD_SOA_A931 completed successfully.

ADMA5058I: Application and module versions are validated with versions of deployment targets.

ADMA5005I: The application WORLD_SOA_A931 is configured in the WebSphere Application Server repository.

ADMA5053I: The library references for the installed optional package are created.

ADMA5005I: The application WORLD_SOA_A931 is configured in the WebSphere Application Server repository.

ADMA5001I: The application binaries are saved in
/QIBM/UserData/WebSphere/AppServer/V7/ND/profiles/STEVE_TEST/wstemp/514564614/workspace/cells/JDED2_STEVE_TEST/applications/WORLD_SOA_A931.ear/WORLD_SOA_A931.

ADMA5005I: The application WORLD_SOA_A931 is configured in the WebSphere Application Server repository.

SECJ0400I: Successfully updated the application WORLD_SOA_A931 with the appContextIDForSecurity information.

ADMA5005I: The application WORLD_SOA_A931 is configured in the WebSphere Application Server repository.

ADMA5113I: Activation plan created successfully.

ADMA5011I: The cleanup of the temp directory for application WORLD_SOA_A931 is complete.

ADMA5013I: Application WORLD_SOA_A931 installed successfully.
```

Application WORLD_SOA_A931 installed successfully.

To start the application, first save changes to the master configuration.

Changes have been made to your local configuration. You can:

- Save directly to the master configuration.
- Review changes before saving or discarding.

To work with installed applications, click the "Manage Applications" link.

**Manage Applications**

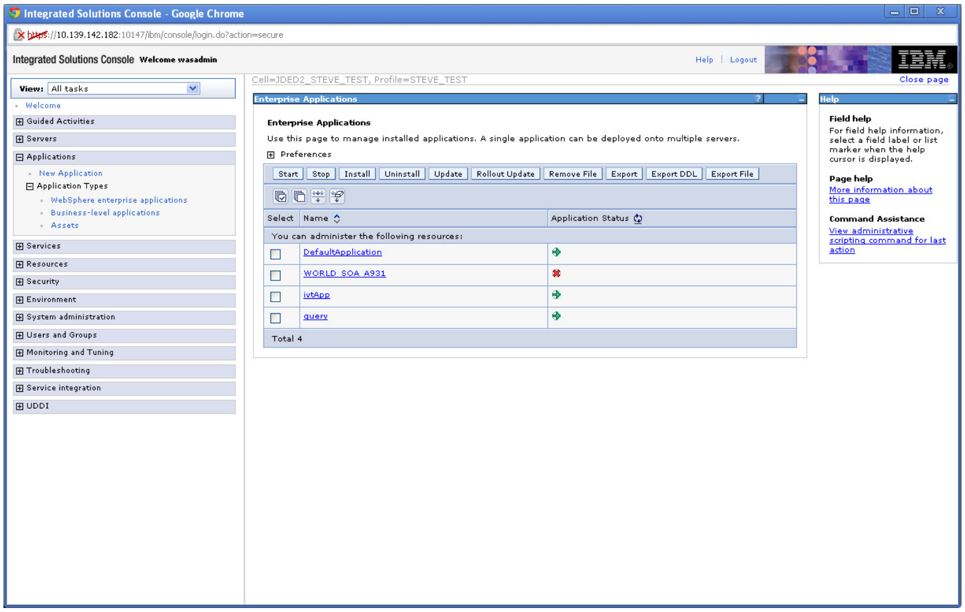
9. Click Save.

---

**Note:** This can take several minutes.

---

### Figure 5–43 Enterprise Applications screen



Cell=JDED2_STEVE_TEST, Profile=STEVE_TEST

**Enterprise Applications**

Use this page to manage installed applications. A single application can be deployed onto multiple servers.

⊞ Preferences

| Select | Name | Application Status |
|---|---|---|
| You can administer the following resources: | | |
| □ | DefaultApplication | ➔ |
| □ | WORLD_SOA_A931 | ✖ |
| □ | ivtApp | ➔ |
| □ | query | ➔ |
| Total 4 | | |

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

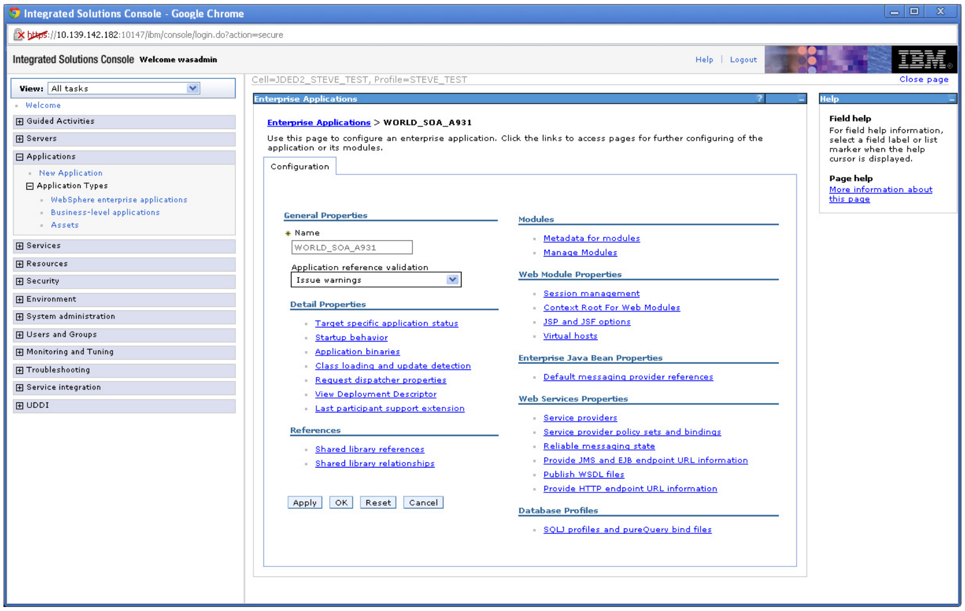
More information about this page

**Command Assistance**

View administrative scripting command for last action

10. Click **WORLD_SOA_A931**.

*Figure 5–44 Enterprise Applications screen*


Integrated Solutions Console - Google Chrome
https://10.139.142.182:10147/ibm/console/login.do?action=secure
Integrated Solutions Console Welcome wasadmin
Help | Logout
Cell=JDED2_STEVE_TEST, Profile=STEVE_TEST
Close page
View: All tasks
Welcome
Guided Activities
Servers
Applications
New Application
Application Types
WebSphere enterprise applications
Business-level applications
Assets
Services
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Enterprise Applications
Enterprise Applications > WORLD_SOA_A931
Configuration
General Properties
Detail Properties
Target specific application status
Startup behavior
Application binaries
Class loading and update detection
Request dispatcher properties
View Deployment Descriptor
Last participant support extension
References
Shared library references
Shared library relationships
Apply
OK
Reset
Cancel
Modules
Metadata for modules
Manage Modules
Web Module Properties
Session management
Context Root For Web Modules
JSP and JSF options
Virtual hosts
Enterprise Java Bean Properties
Default messaging provider references
Web Services Properties
Service providers
Service provider policy sets and bindings
Reliable messaging state
Provide JMS and EJB endpoint URL information
Publish WSDL files
Provide HTTP endpoint URL information
Database Profiles
SQLJ profiles and pureQuery bind files
Help
Field help
Page help
More information about this page

Use this page to configure an enterprise application. Click the links to access pages for further configuring of the application or its modules.

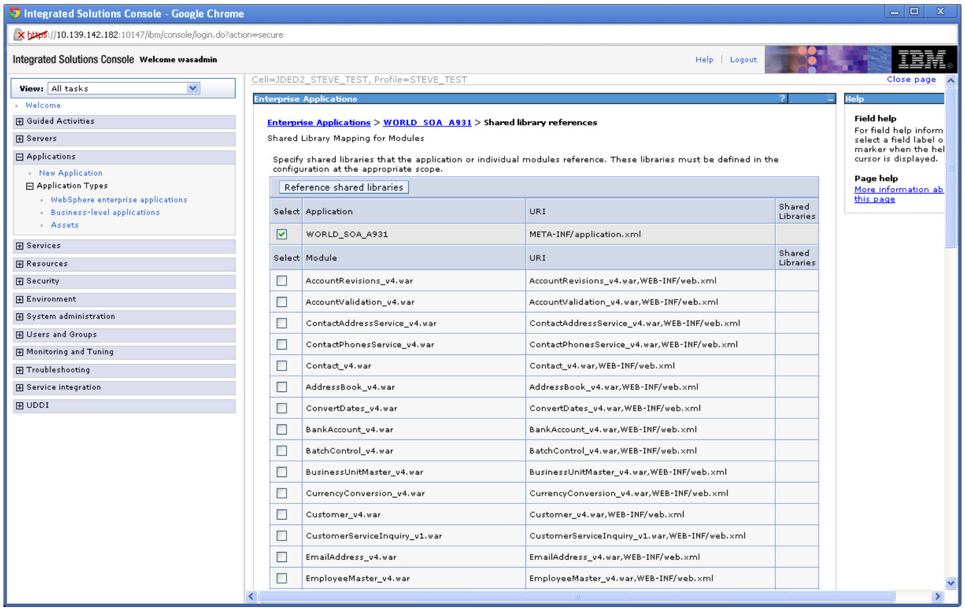
Name: WORLD_SOA_A931

Application reference validation: Issue warnings

For field help information, select a field label or list marker when the help cursor is displayed.

11. Click **Shared library references**.

*Figure 5–45 Enterprise Applications screen*


Integrated Solutions Console - Google Chrome
https://10.139.142.182:10147/ibm/console/login.do?action=secure
Integrated Solutions Console Welcome wasadmin
Help | Logout
Cell=JDED2_STEVE_TEST, Profile=STEVE_TEST
Close page
View: All tasks
Welcome
Guided Activities
Servers
Applications
New Application
Application Types
WebSphere enterprise applications
Business-level applications
Assets
Services
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Enterprise Applications
Enterprise Applications > WORLD_SOA_A931 > Shared library references
Reference shared libraries
Help
Field help
Page help
More information ab this page

Shared Library Mapping for Modules

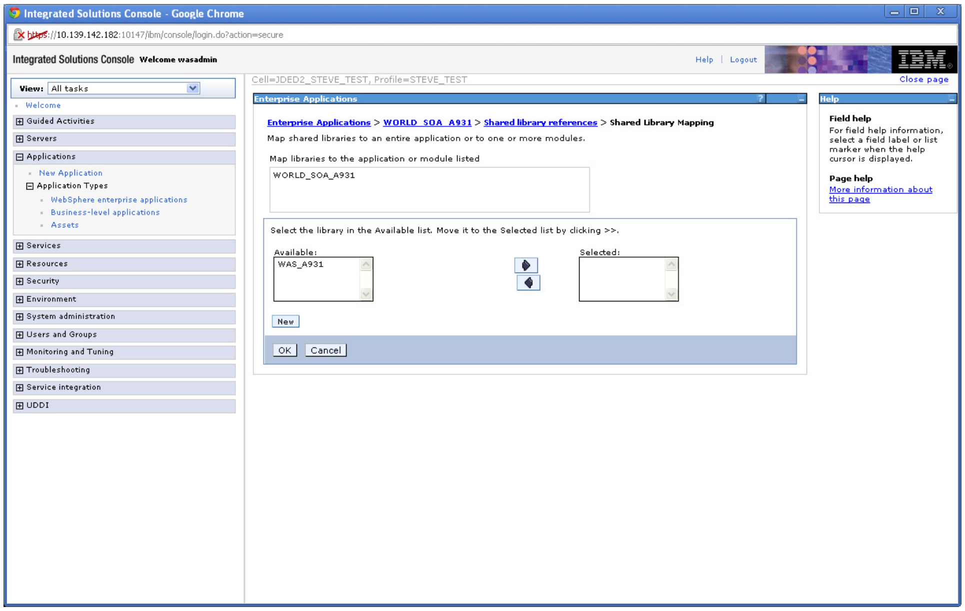
Specify shared libraries that the application or individual modules reference. These libraries must be defined in the configuration at the appropriate scope.

| Select | Application | URI | Shared Libraries |
|---|---|---|---|
| ☑ | WORLD_SOA_A931 | META-INF/application.xml | |
| **Select** | **Module** | **URI** | **Shared Libraries** |
| ☐ | AccountRevisions_v4.war | AccountRevisions_v4.war,WEB-INF/web.xml | |
| ☐ | AccountValidation_v4.war | AccountValidation_v4.war,WEB-INF/web.xml | |
| ☐ | ContactAddressService_v4.war | ContactAddressService_v4.war,WEB-INF/web.xml | |
| ☐ | ContactPhonesService_v4.war | ContactPhonesService_v4.war,WEB-INF/web.xml | |
| ☐ | Contact_v4.war | Contact_v4.war,WEB-INF/web.xml | |
| ☐ | AddressBook_v4.war | AddressBook_v4.war,WEB-INF/web.xml | |
| ☐ | ConvertDates_v4.war | ConvertDates_v4.war,WEB-INF/web.xml | |
| ☐ | BankAccount_v4.war | BankAccount_v4.war,WEB-INF/web.xml | |
| ☐ | BatchControl_v4.war | BatchControl_v4.war,WEB-INF/web.xml | |
| ☐ | BusinessUnitMaster_v4.war | BusinessUnitMaster_v4.war,WEB-INF/web.xml | |
| ☐ | CurrencyConversion_v4.war | CurrencyConversion_v4.war,WEB-INF/web.xml | |
| ☐ | Customer_v4.war | Customer_v4.war,WEB-INF/web.xml | |
| ☐ | CustomerServiceInquiry_v1.war | CustomerServiceInquiry_v1.war,WEB-INF/web.xml | |
| ☐ | EmailAddress_v4.war | EmailAddress_v4.war,WEB-INF/web.xml | |
| ☐ | EmployeeMaster_v4.war | EmployeeMaster_v4.war,WEB-INF/web.xml | |

For field help inform select a field label o marker when the hel cursor is displayed.

12. Check **WORLD_SOA_A931**, and click **Reference shared libraries**.

*Figure 5–46 Enterprise Applications screen*


Integrated Solutions Console - Google Chrome
https://10.139.142.182:10147/ibm/console/login.do?action=secure
Integrated Solutions Console Welcome wasadmin
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
New Application
Application Types
WebSphere enterprise applications
Business-level applications
Assets
Services
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Close page
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page

Cell=JDED2_STEVE_TEST, Profile=STEVE_TEST

Enterprise Applications

Enterprise Applications > WORLD_SOA_A931 > Shared library references > Shared Library Mapping

Map shared libraries to an entire application or to one or more modules.

Map libraries to the application or module listed

WORLD_SOA_A931

Select the library in the Available list. Move it to the Selected list by clicking >>.

Available:
WAS_A931

Selected:

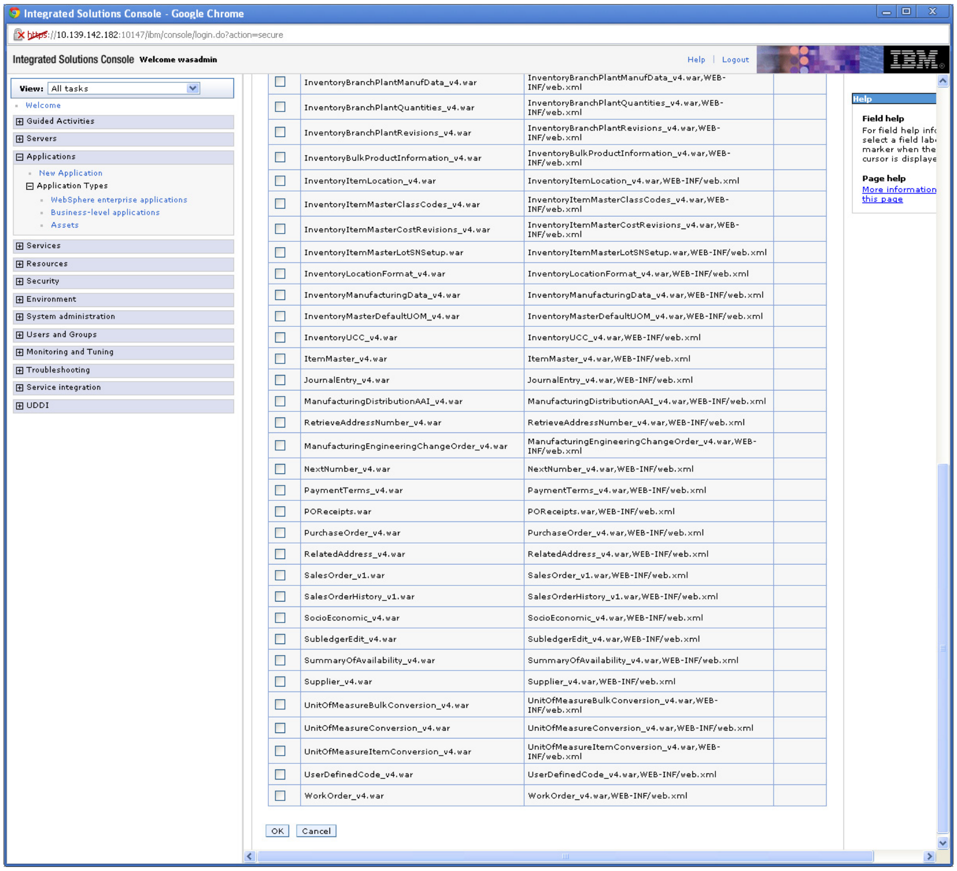
New

OK Cancel

13. In the Available box, select **WAS_A931**, and click the arrow key to move the library to the Selected box.

14. Click OK.

*Figure 5–47 Enterprise Applications screen*

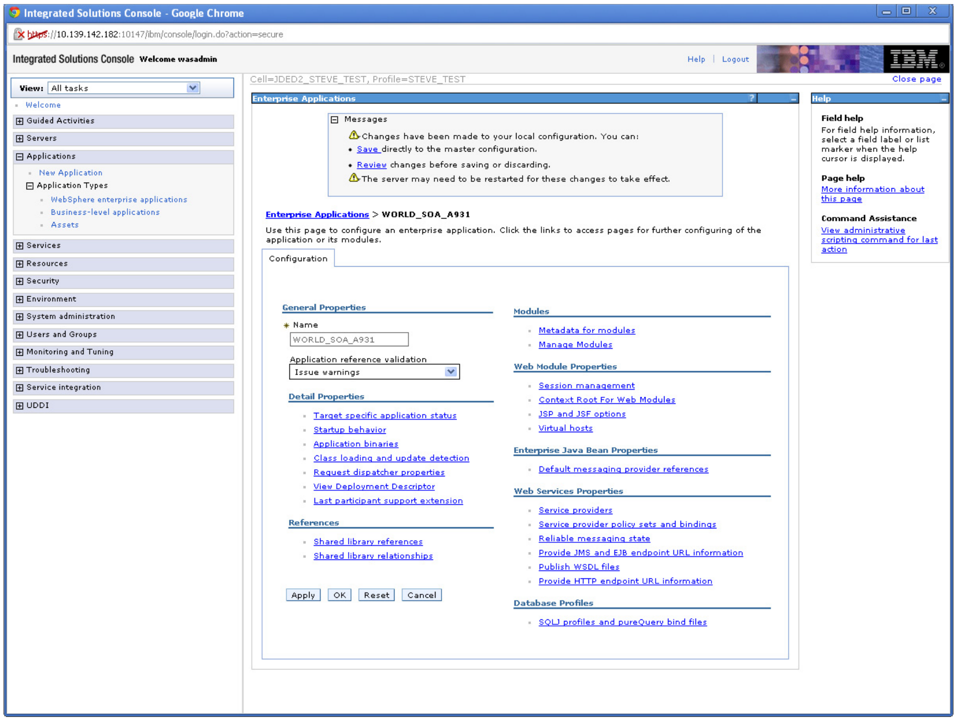


| | | | |
|---|---|---|---|
| □ | InventoryBranchPlantManufData_v4.war | InventoryBranchPlantManufData_v4.war,WEB-INF/web.xml | |
| □ | InventoryBranchPlantQuantities_v4.war | InventoryBranchPlantQuantities_v4.war,WEB-INF/web.xml | |
| □ | InventoryBranchPlantRevisions_v4.war | InventoryBranchPlantRevisions_v4.war,WEB-INF/web.xml | |
| □ | InventoryBulkProductInformation_v4.war | InventoryBulkProductInformation_v4.war,WEB-INF/web.xml | |
| □ | InventoryItemLocation_v4.war | InventoryItemLocation_v4.war,WEB-INF/web.xml | |
| □ | InventoryItemMasterClassCodes_v4.war | InventoryItemMasterClassCodes_v4.war,WEB-INF/web.xml | |
| □ | InventoryItemMasterCostRevisions_v4.war | InventoryItemMasterCostRevisions_v4.war,WEB-INF/web.xml | |
| □ | InventoryItemMasterLotSNSetup.war | InventoryItemMasterLotSNSetup.war,WEB-INF/web.xml | |
| □ | InventoryLocationFormat_v4.war | InventoryLocationFormat_v4.war,WEB-INF/web.xml | |
| □ | InventoryManufacturingData_v4.war | InventoryManufacturingData_v4.war,WEB-INF/web.xml | |
| □ | InventoryMasterDefaultUOM_v4.war | InventoryMasterDefaultUOM_v4.war,WEB-INF/web.xml | |
| □ | InventoryUCC_v4.war | InventoryUCC_v4.war,WEB-INF/web.xml | |
| □ | ItemMaster_v4.war | ItemMaster_v4.war,WEB-INF/web.xml | |
| □ | JournalEntry_v4.war | JournalEntry_v4.war,WEB-INF/web.xml | |
| □ | ManufacturingDistributionAAI_v4.war | ManufacturingDistributionAAI_v4.war,WEB-INF/web.xml | |
| □ | RetrieveAddressNumber_v4.war | RetrieveAddressNumber_v4.war,WEB-INF/web.xml | |
| □ | ManufacturingEngineeringChangeOrder_v4.war | ManufacturingEngineeringChangeOrder_v4.war,WEB-INF/web.xml | |
| □ | NextNumber_v4.war | NextNumber_v4.war,WEB-INF/web.xml | |
| □ | PaymentTerms_v4.war | PaymentTerms_v4.war,WEB-INF/web.xml | |
| □ | POReceipts.war | POReceipts.war,WEB-INF/web.xml | |
| □ | PurchaseOrder_v4.war | PurchaseOrder_v4.war,WEB-INF/web.xml | |
| □ | RelatedAddress_v4.war | RelatedAddress_v4.war,WEB-INF/web.xml | |
| □ | SalesOrder_v1.war | SalesOrder_v1.war,WEB-INF/web.xml | |
| □ | SalesOrderHistory_v1.war | SalesOrderHistory_v1.war,WEB-INF/web.xml | |
| □ | SocioEconomic_v4.war | SocioEconomic_v4.war,WEB-INF/web.xml | |
| □ | SubledgerEdit_v4.war | SubledgerEdit_v4.war,WEB-INF/web.xml | |
| □ | SummaryOfAvailability_v4.war | SummaryOfAvailability_v4.war,WEB-INF/web.xml | |
| □ | Supplier_v4.war | Supplier_v4.war,WEB-INF/web.xml | |
| □ | UnitOfMeasureBulkConversion_v4.war | UnitOfMeasureBulkConversion_v4.war,WEB-INF/web.xml | |
| □ | UnitOfMeasureConversion_v4.war | UnitOfMeasureConversion_v4.war,WEB-INF/web.xml | |
| □ | UnitOfMeasureItemConversion_v4.war | UnitOfMeasureItemConversion_v4.war,WEB-INF/web.xml | |
| □ | UserDefinedCode_v4.war | UserDefinedCode_v4.war,WEB-INF/web.xml | |
| □ | WorkOrder_v4.war | WorkOrder_v4.war,WEB-INF/web.xml | |

OK Cancel

15. Click OK.

*Figure 5–48 Enterprise Applications screen*


Integrated Solutions Console - Google Chrome
https://10.139.142.182:10147/ibm/console/login.do?action=secure
Integrated Solutions Console Welcome wasadmin
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
New Application
Application Types
WebSphere enterprise applications
Business-level applications
Assets
Services
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Close page
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page
Command Assistance
View administrative scripting command for last action

Cell=JDED2_STEVE_TEST, Profile=STEVE_TEST

Enterprise Applications

⊟ Messages

- ⚠ Changes have been made to your local configuration. You can:
- Save directly to the master configuration.
- Review changes before saving or discarding.
- ⚠ The server may need to be restarted for these changes to take effect.

Enterprise Applications > WORLD_SOA_A931

Use this page to configure an enterprise application. Click the links to access pages for further configuring of the application or its modules.

Configuration

General Properties

* Name: WORLD_SOA_A931

Application reference validation: Issue warnings

Detail Properties

- Target specific application status
- Startup behavior
- Application binaries
- Class loading and update detection
- Request dispatcher properties
- View Deployment Descriptor
- Last participant support extension

References

- Shared library references
- Shared library relationships

Apply OK Reset Cancel

Modules

- Metadata for modules
- Manage Modules

Web Module Properties

- Session management
- Context Root For Web Modules
- JSP and JSF options
- Virtual hosts

Enterprise Java Bean Properties

- Default messaging provider references

Web Services Properties

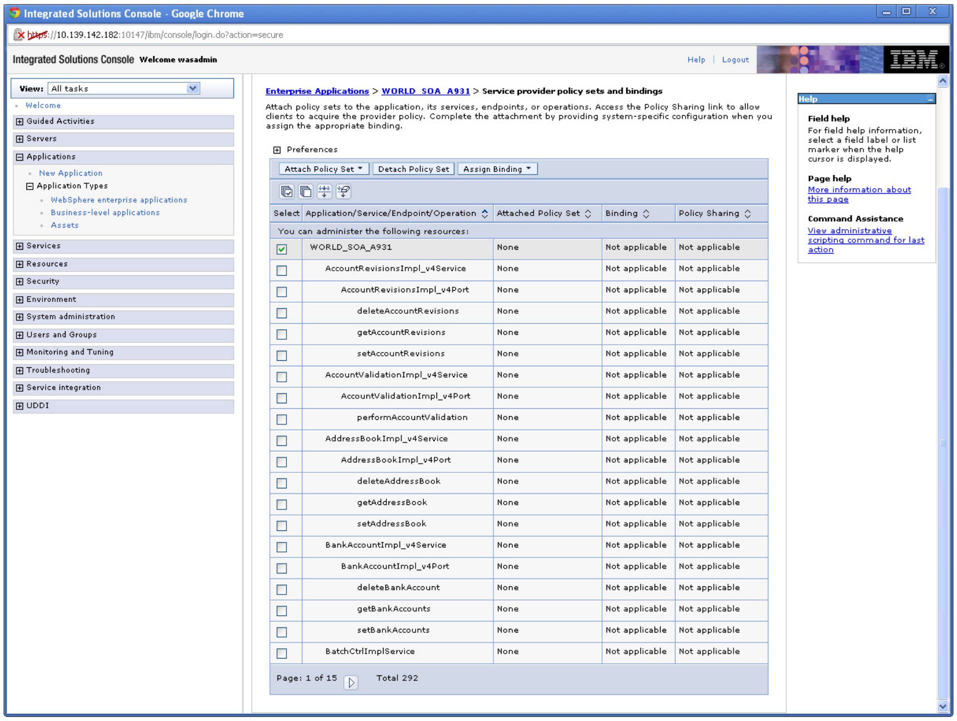
- Service providers
- Service provider policy sets and bindings
- Reliable messaging state
- Provide JMS and EJB endpoint URL information
- Publish WSDL files
- Provide HTTP endpoint URL information

Database Profiles

- SQLJ profiles and pureQuery bind files

16. Click Service provider policy sets and bindings.

*Figure 5–49 Enterprise Applications screen*


Integrated Solutions Console - Google Chrome
https://10.139.142.182:10147/ibm/console/login.do?action=secure
Integrated Solutions Console Welcome wasadmin
Help | Logout
IBM
View: All tasks
Welcome
Guided Activities
Servers
Applications
New Application
Application Types
WebSphere enterprise applications
Business-level applications
Assets
Services
Resources
Security
Environment
System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Help
Field help
For field help information, select a field label or list marker when the help cursor is displayed.
Page help
More information about this page
Command Assistance
View administrative scripting command for last action
Preferences
Attach Policy Set
Detach Policy Set
Assign Binding

Enterprise Applications > WORLD_SOA_A931 > Service provider policy sets and bindings

Attach policy sets to the application, its services, endpoints, or operations. Access the Policy Sharing link to allow clients to acquire the provider policy. Complete the attachment by providing system-specific configuration when you assign the appropriate binding.

You can administer the following resources:

| Select | Application/Service/Endpoint/Operation | Attached Policy Set | Binding | Policy Sharing |
|---|---|---|---|---|
| ☑ | WORLD_SOA_A931 | None | Not applicable | Not applicable |
| ☐ | AccountRevisionsImpl_v4Service | None | Not applicable | Not applicable |
| ☐ | AccountRevisionsImpl_v4Port | None | Not applicable | Not applicable |
| ☐ | deleteAccountRevisions | None | Not applicable | Not applicable |
| ☐ | getAccountRevisions | None | Not applicable | Not applicable |
| ☐ | setAccountRevisions | None | Not applicable | Not applicable |
| ☐ | AccountValidationImpl_v4Service | None | Not applicable | Not applicable |
| ☐ | AccountValidationImpl_v4Port | None | Not applicable | Not applicable |
| ☐ | performAccountValidation | None | Not applicable | Not applicable |
| ☐ | AddressBookImpl_v4Service | None | Not applicable | Not applicable |
| ☐ | AddressBookImpl_v4Port | None | Not applicable | Not applicable |
| ☐ | deleteAddressBook | None | Not applicable | Not applicable |
| ☐ | getAddressBook | None | Not applicable | Not applicable |
| ☐ | setAddressBook | None | Not applicable | Not applicable |
| ☐ | BankAccountImpl_v4Service | None | Not applicable | Not applicable |
| ☐ | BankAccountImpl_v4Port | None | Not applicable | Not applicable |
| ☐ | deleteBankAccount | None | Not applicable | Not applicable |
| ☐ | getBankAccounts | None | Not applicable | Not applicable |
| ☐ | setBankAccounts | None | Not applicable | Not applicable |
| ☐ | BatchCtrlImplService | None | Not applicable | Not applicable |

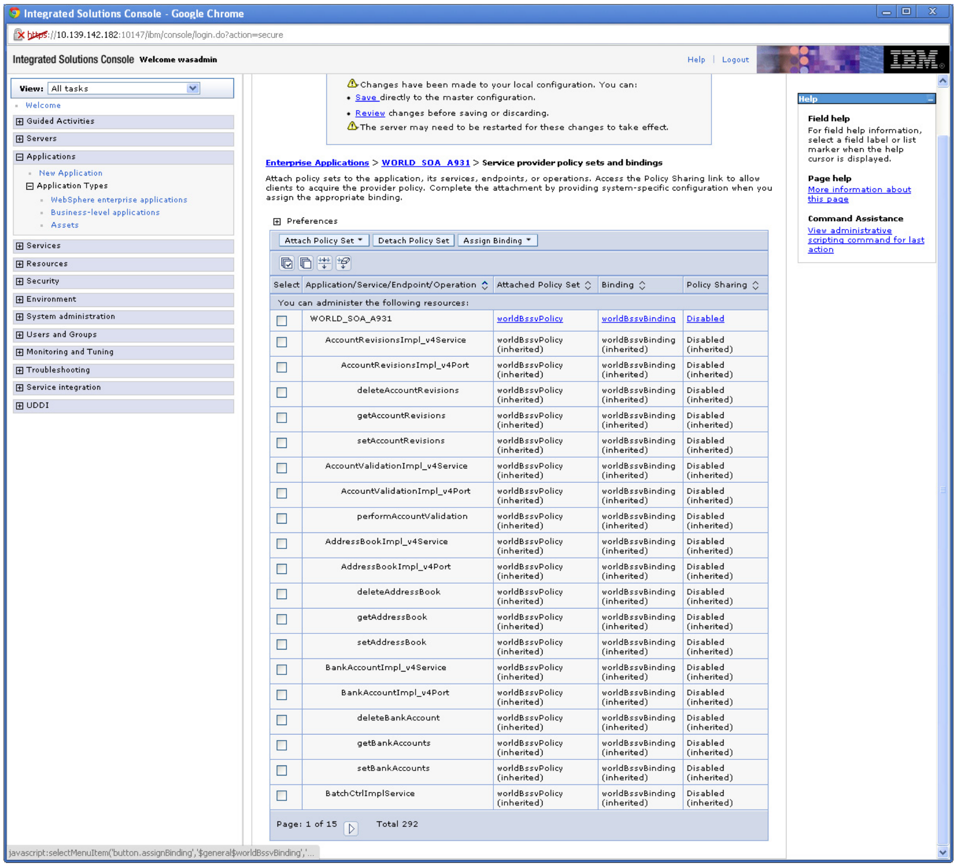
Page: 1 of 15 Total 292

17. Check the box next to WORLD_SOA_A931, and click **Attach Policy Set->worldBssvPolicy**.

> **Note:** This can take several minutes.

18. Check the box next to WORLD_SOA_A931, and click **Assign Binding->worldBssvBinding**.

*Figure 5–50 Enterprise Applications screen*



Changes have been made to your local configuration. You can:

- Save directly to the master configuration.
- Review changes before saving or discarding.

The server may need to be restarted for these changes to take effect.

**Enterprise Applications > WORLD_SOA_A931 > Service provider policy sets and bindings**

Attach policy sets to the application, its services, endpoints, or operations. Access the Policy Sharing link to allow clients to acquire the provider policy. Complete the attachment by providing system-specific configuration when you assign the appropriate binding.

| Select | Application/Service/Endpoint/Operation | Attached Policy Set | Binding | Policy Sharing |
|---|---|---|---|---|
| You can administer the following resources: | | | | |
| □ | WORLD_SOA_A931 | worldBssvPolicy | worldBssvBinding | Disabled |
| □ | AccountRevisionsImpl_v4Service | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | AccountRevisionsImpl_v4Port | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | deleteAccountRevisions | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | getAccountRevisions | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | setAccountRevisions | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | AccountValidationImpl_v4Service | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | AccountValidationImpl_v4Port | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | performAccountValidation | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | AddressBookImpl_v4Service | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | AddressBookImpl_v4Port | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | deleteAddressBook | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | getAddressBook | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | setAddressBook | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | BankAccountImpl_v4Service | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | BankAccountImpl_v4Port | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | deleteBankAccount | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | getBankAccounts | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | setBankAccounts | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |
| □ | BatchCtrlImplService | worldBssvPolicy (inherited) | worldBssvBinding (inherited) | Disabled (inherited) |

Page: 1 of 15 ▷ Total 292

**Field help**
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**
More information about this page

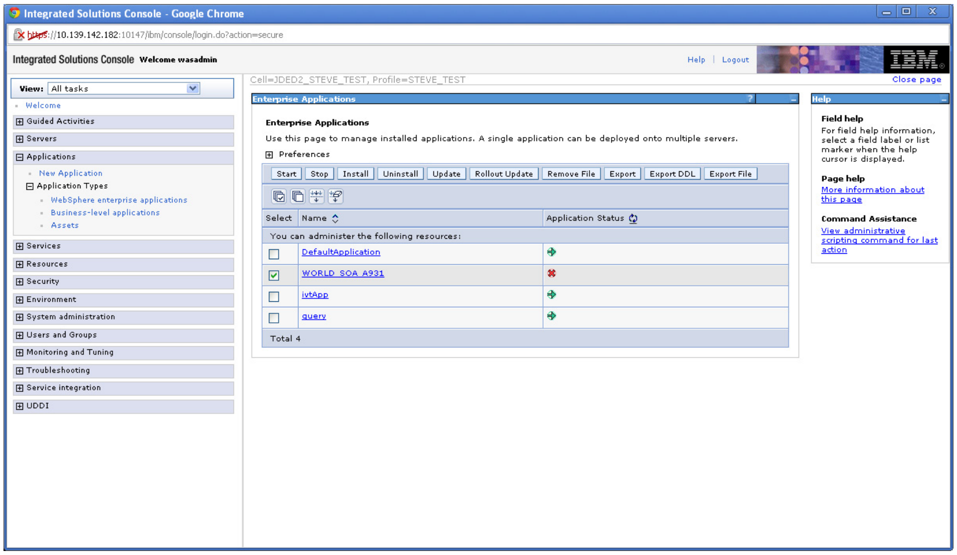
**Command Assistance**
View administrative scripting command for last action

javascript:selectMenuItem('button.assignBinding','$general$worldBssvBinding','...

19. Click Save.

20. On the left hand menu, select **WebSphere enterprise applications**.

*Figure 5–51 Enterprise Applications screen*



**Enterprise Applications**

Use this page to manage installed applications. A single application can be deployed onto multiple servers.

| Select | Name | Application Status |
|---|---|---|
| You can administer the following resources: | | |
| □ | DefaultApplication | ➔ |
| ☑ | WORLD_SOA_A931 | ✖ |
| □ | ivtApp | ➔ |
| □ | query | ➔ |
| Total 4 | | |

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

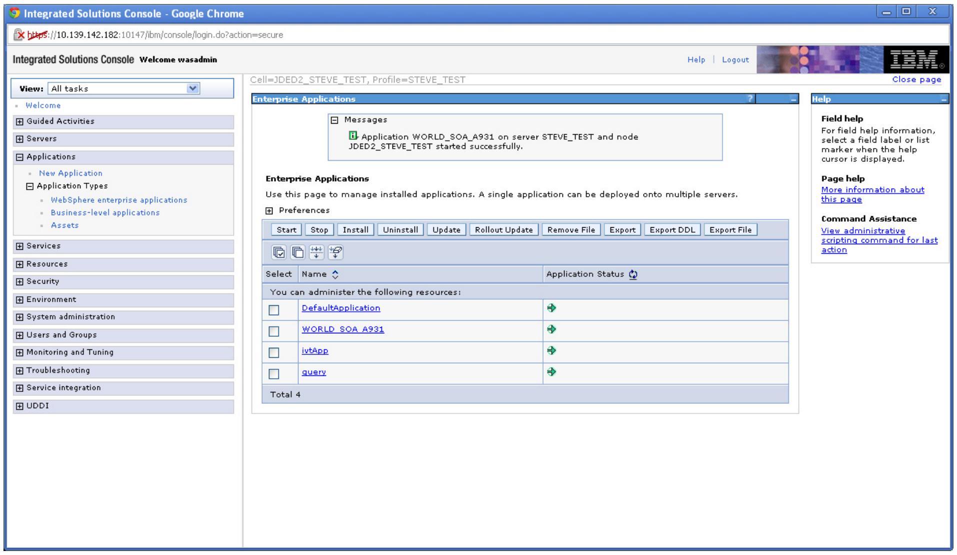
More information about this page

**Command Assistance**

View administrative scripting command for last action

**21.** Check the box next to WORLD_SOA_A931 and click Start.

*Figure 5–52 Enterprise Applications screen*



Application WORLD_SOA_A931 on server STEVE_TEST and node JDED2_STEVE_TEST started successfully.

**Enterprise Applications**

Use this page to manage installed applications. A single application can be deployed onto multiple servers.

| Select | Name | Application Status |
|---|---|---|
| You can administer the following resources: | | |
| □ | DefaultApplication | ➔ |
| □ | WORLD_SOA_A931 | ➔ |
| □ | ivtApp | ➔ |
| □ | query | ➔ |
| Total 4 | | |

**Field help**

For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**

More information about this page

**Command Assistance**

View administrative scripting command for last action

A

# Install WebLogic Application Server

This appendix contains the topic:

- Section A, "Install WebLogic Application Server."

## A.1 Installing the WebLogic Application Server

### To install the WebLogic Application Server

1. Download Required Jars:

   jt400.jar - retrieve from: http://jt400.sourceforge.net/

   log4j - for details about the latest version supported for log4j, see Doc ID 2318897.1 in My Oracle Support. Use the following URL to access and sign in to My Oracle Support:

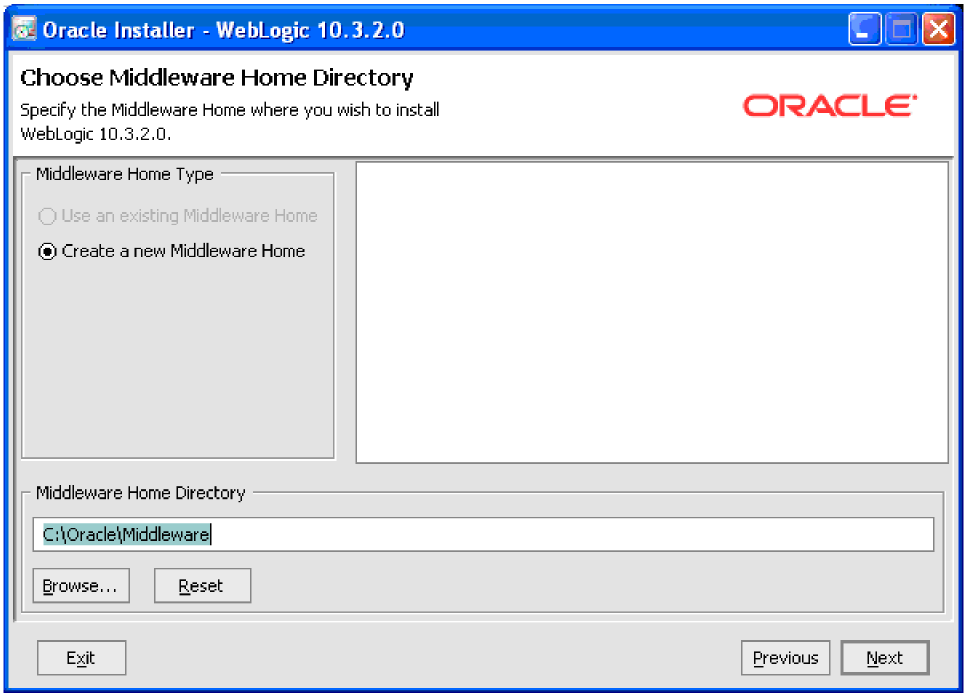
   `https://support.oracle.com`

   (WS: Instructions to Address JD Edwards World Security Vulnerabilities (Doc ID 2318897.1) (Release A9.3 Update)

### WebLogic Installation Instructions

1. Download the WLS server installation file from OTN and install. Use the default values.

*Figure A–1 Choose Middleware Home Directory screen*



Choose Middleware Home Directory

Specify the Middleware Home where you wish to install WebLogic 10.3.2.0.

Middleware Home Type

○ Use an existing Middleware Home

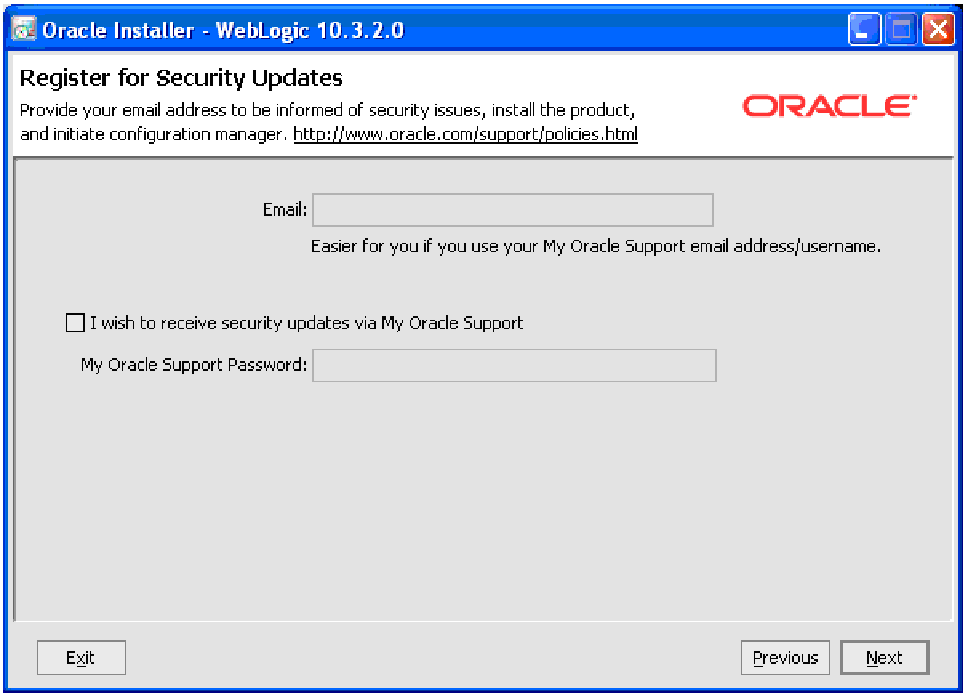
● Create a new Middleware Home

Middleware Home Directory

C:\Oracle\Middleware

2. Click Next.

*Figure A–2 Register for Security Updates screen*



Register for Security Updates

Provide your email address to be informed of security issues, install the product, and initiate configuration manager. http://www.oracle.com/support/policies.html

Email:

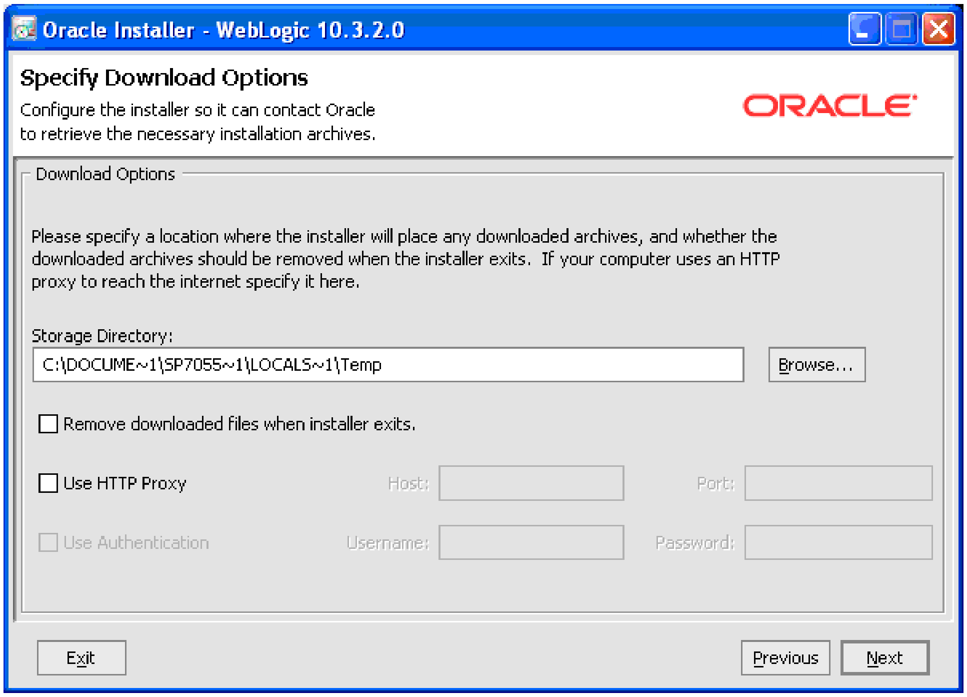
Easier for you if you use your My Oracle Support email address/username.

□ I wish to receive security updates via My Oracle Support

My Oracle Support Password:

3. Click Next.

*Figure A–3 Specify Download Options screen*



Oracle Installer - WebLogic 10.3.2.0

Specify Download Options

Configure the installer so it can contact Oracle
to retrieve the necessary installation archives.

Download Options

Please specify a location where the installer will place any downloaded archives, and whether the downloaded archives should be removed when the installer exits. If your computer uses an HTTP proxy to reach the internet specify it here.

Storage Directory: C:\DOCUME~1\SP7055~1\LOCALS~1\Temp

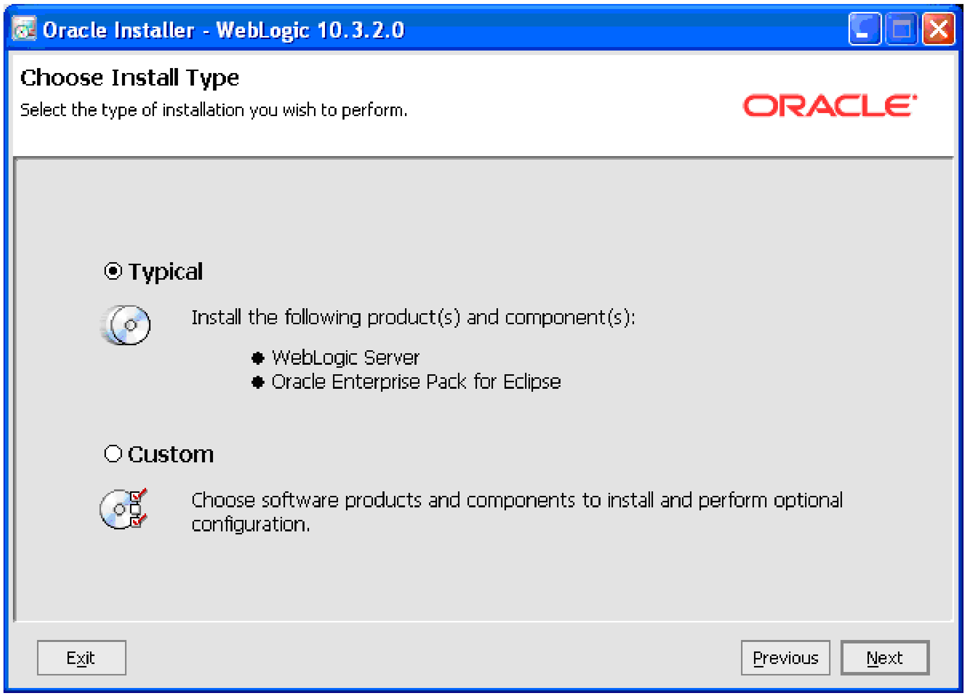
□ Remove downloaded files when installer exits.

□ Use HTTP Proxy Host: Port:

□ Use Authentication Username: Password:

4. Click Next.

*Figure A–4 Choose Install Type screen*



Oracle Installer - WebLogic 10.3.2.0

Choose Install Type

Select the type of installation you wish to perform.

● Typical

Install the following product(s) and component(s):

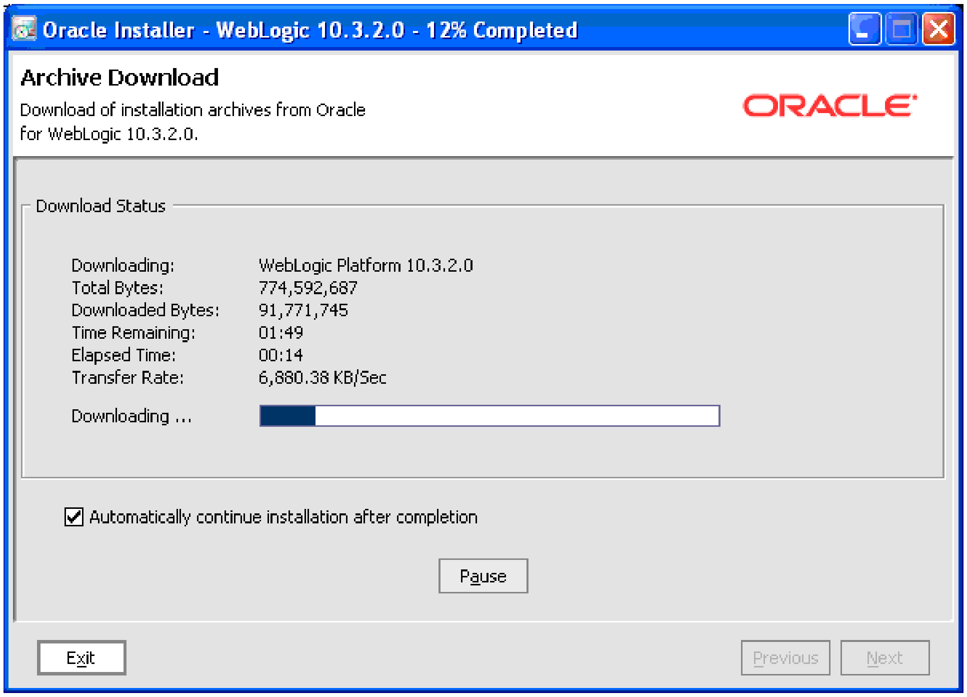
- WebLogic Server
- Oracle Enterprise Pack for Eclipse

○ Custom

Choose software products and components to install and perform optional configuration.

5. Select Typical and then click Next.

*Figure A–5 Archive Download screen*



Oracle Installer - WebLogic 10.3.2.0 - 12% Completed

Archive Download

Download of installation archives from Oracle for WebLogic 10.3.2.0.

Download Status

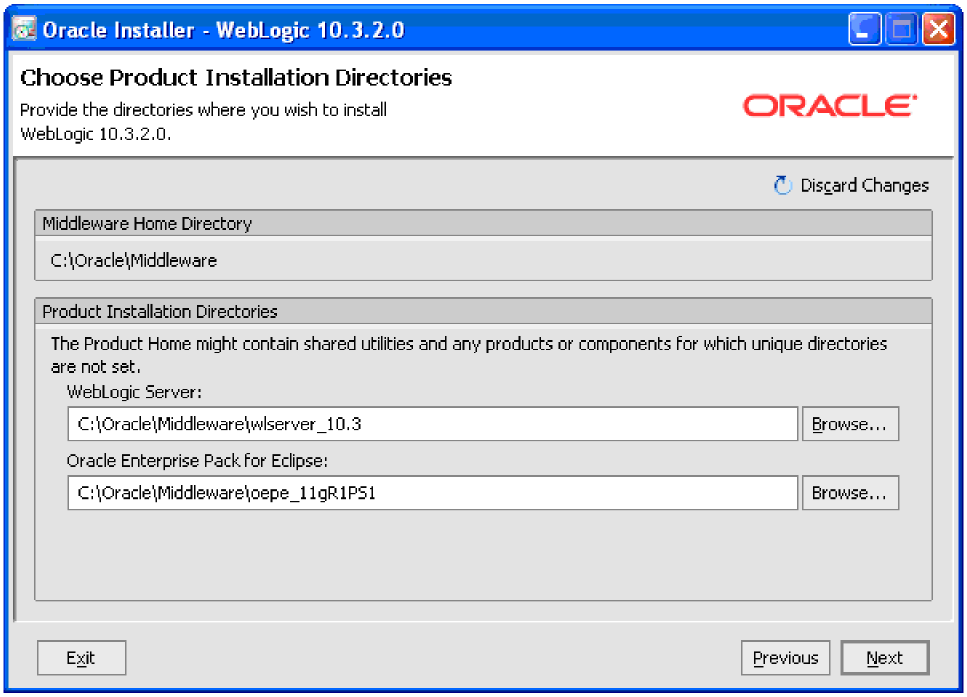
```
Downloading:          WebLogic Platform 10.3.2.0
Total Bytes:          774,592,687
Downloaded Bytes:     91,771,745
Time Remaining:       01:49
Elapsed Time:         00:14
Transfer Rate:        6,880.38 KB/Sec
```

Downloading ...

☑ Automatically continue installation after completion

6. Click Next.

*Figure A–6 Choose Product Installation Directories screen*



Oracle Installer - WebLogic 10.3.2.0

Choose Product Installation Directories

Provide the directories where you wish to install WebLogic 10.3.2.0.

Middleware Home Directory

C:\Oracle\Middleware

Product Installation Directories

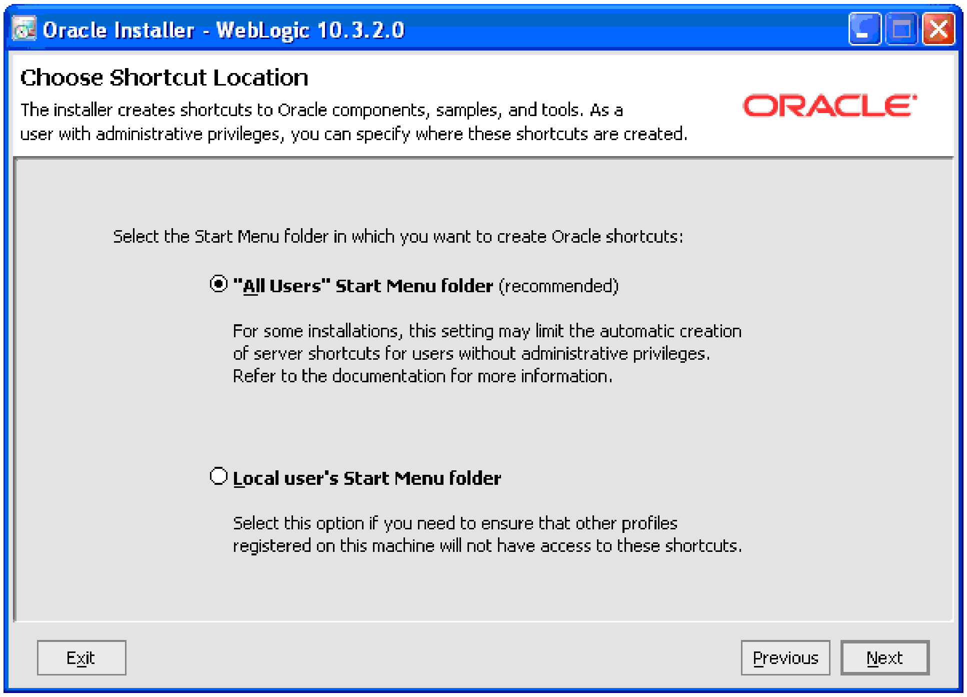
The Product Home might contain shared utilities and any products or components for which unique directories are not set.

WebLogic Server: C:\Oracle\Middleware\wlserver_10.3

Oracle Enterprise Pack for Eclipse: C:\Oracle\Middleware\oepe_11gR1PS1

7. Click Next.

*Figure A–7 Choose Shortcut Location screen*



Choose Shortcut Location

The installer creates shortcuts to Oracle components, samples, and tools. As a user with administrative privileges, you can specify where these shortcuts are created.

Select the Start Menu folder in which you want to create Oracle shortcuts:

● **"All Users" Start Menu folder** (recommended)

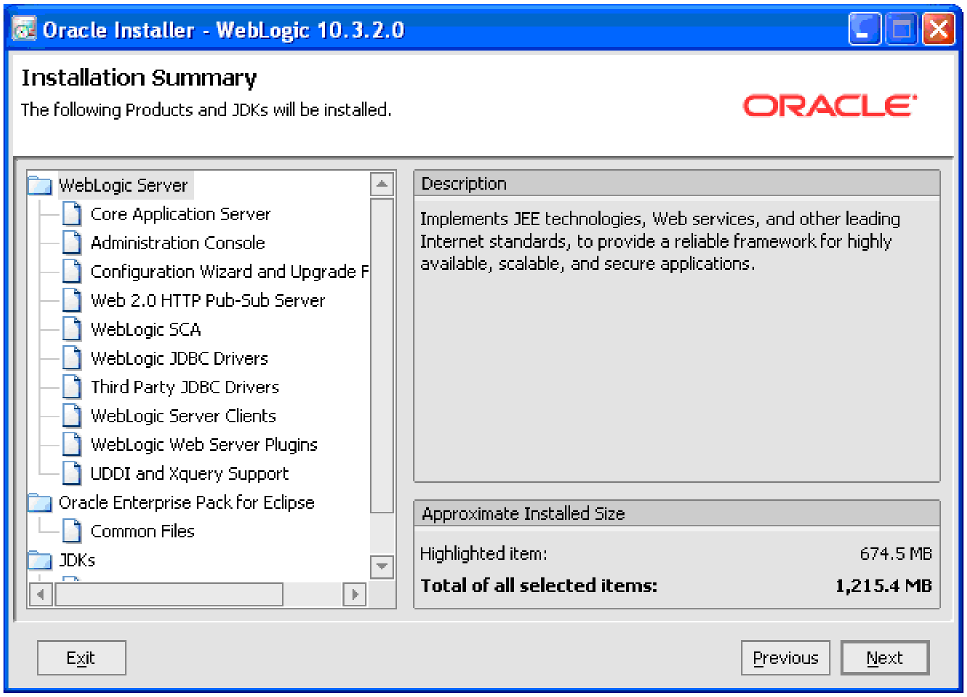
For some installations, this setting may limit the automatic creation of server shortcuts for users without administrative privileges. Refer to the documentation for more information.

○ **Local user's Start Menu folder**

Select this option if you need to ensure that other profiles registered on this machine will not have access to these shortcuts.

8. Click Next.

*Figure A–8 Installation Summary screen*



Installation Summary

The following Products and JDKs will be installed.

WebLogic Server
- Core Application Server
- Administration Console
- Configuration Wizard and Upgrade F
- Web 2.0 HTTP Pub-Sub Server
- WebLogic SCA
- WebLogic JDBC Drivers
- Third Party JDBC Drivers
- WebLogic Server Clients
- WebLogic Web Server Plugins
- UDDI and Xquery Support

Oracle Enterprise Pack for Eclipse
- Common Files

JDKs

Description

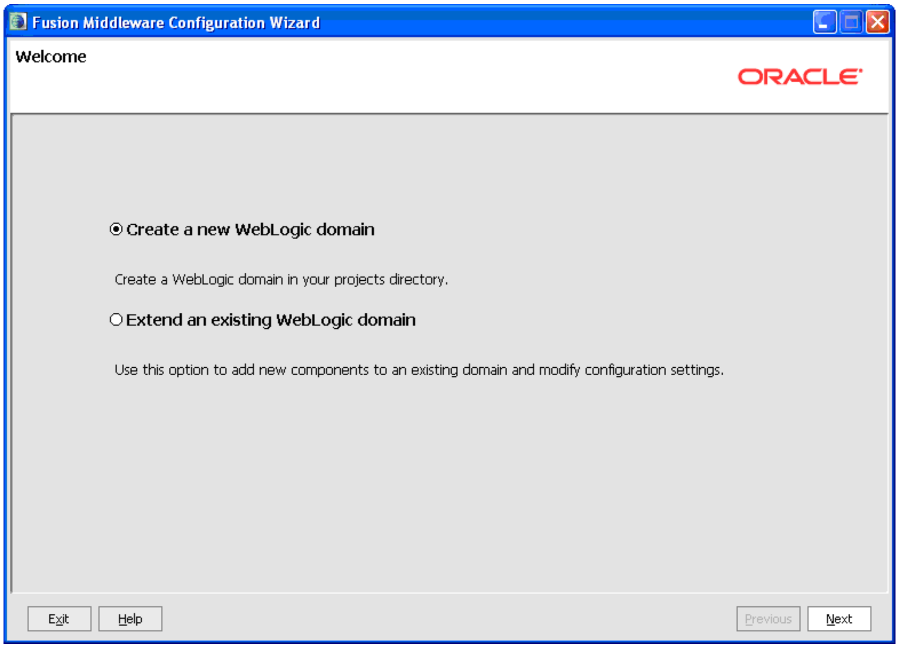
Implements JEE technologies, Web services, and other leading Internet standards, to provide a reliable framework for highly available, scalable, and secure applications.

Approximate Installed Size

| | |
|---|---|
| Highlighted item: | 674.5 MB |
| **Total of all selected items:** | **1,215.4 MB** |

9. Configure the base_domain.

***Figure A–9 Create a New WebLogic Domain screen***



Fusion Middleware Configuration Wizard

Welcome

◉ Create a new WebLogic domain

Create a WebLogic domain in your projects directory.

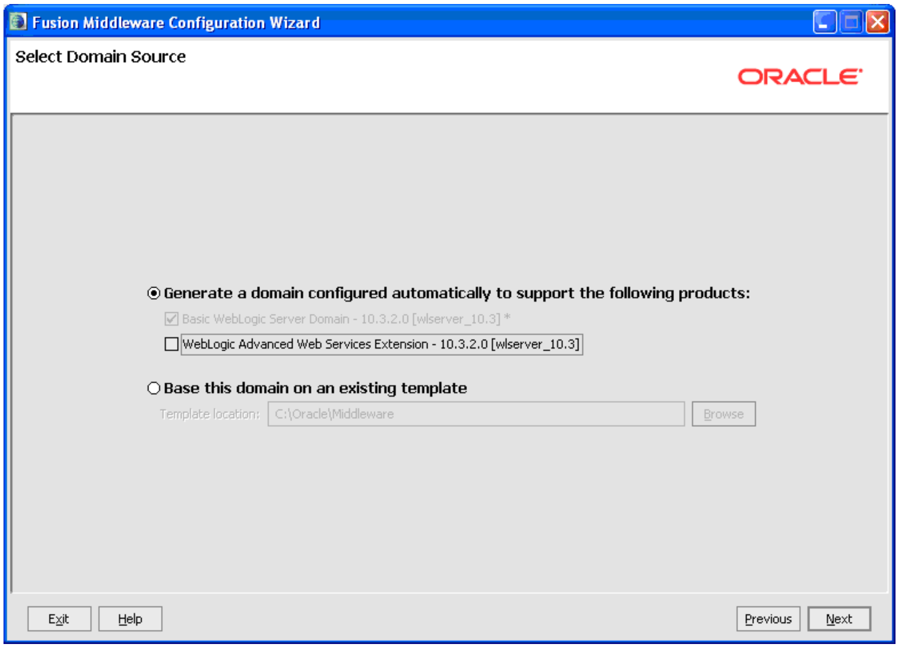
○ Extend an existing WebLogic domain

Use this option to add new components to an existing domain and modify configuration settings.

Start > Programs > Oracle Fusion Middleware 11.1.1.2.0 > WebnLogic Server 11gR1 > Tools > Configuration Wizard

Click Next.

***Figure A–10 Select a Domain Source screen***



Fusion Middleware Configuration Wizard

Select Domain Source

◉ Generate a domain configured automatically to support the following products:

☑ Basic WebLogic Server Domain - 10.3.2.0 [wlserver_10.3] *

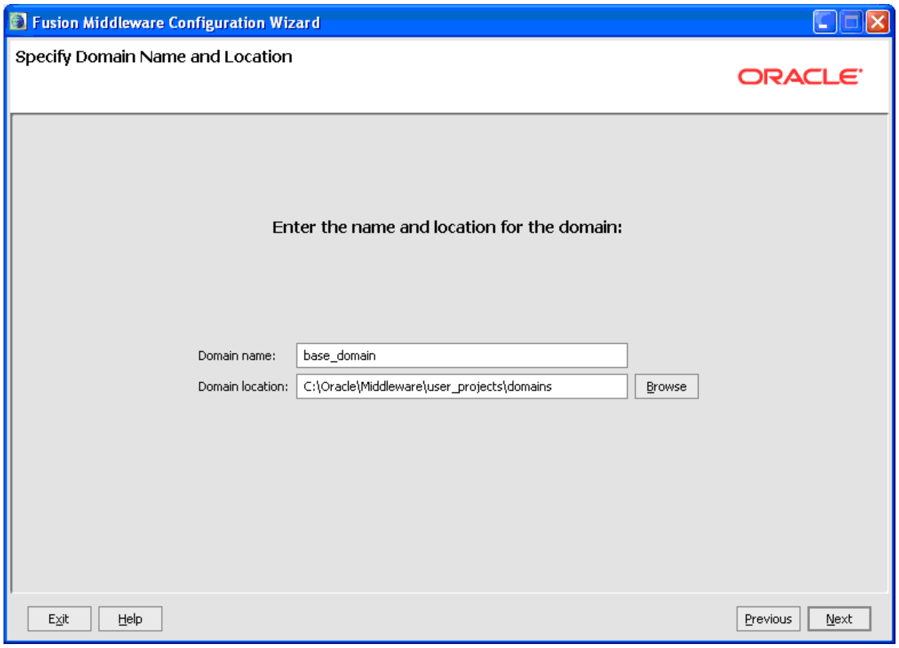
□ WebLogic Advanced Web Services Extension - 10.3.2.0 [wlserver_10.3]

○ Base this domain on an existing template

Template location: C:\Oracle\Middleware

10. Click Next.

*Figure A–11 Specify Domain Name and Location screen*



Specify Domain Name and Location

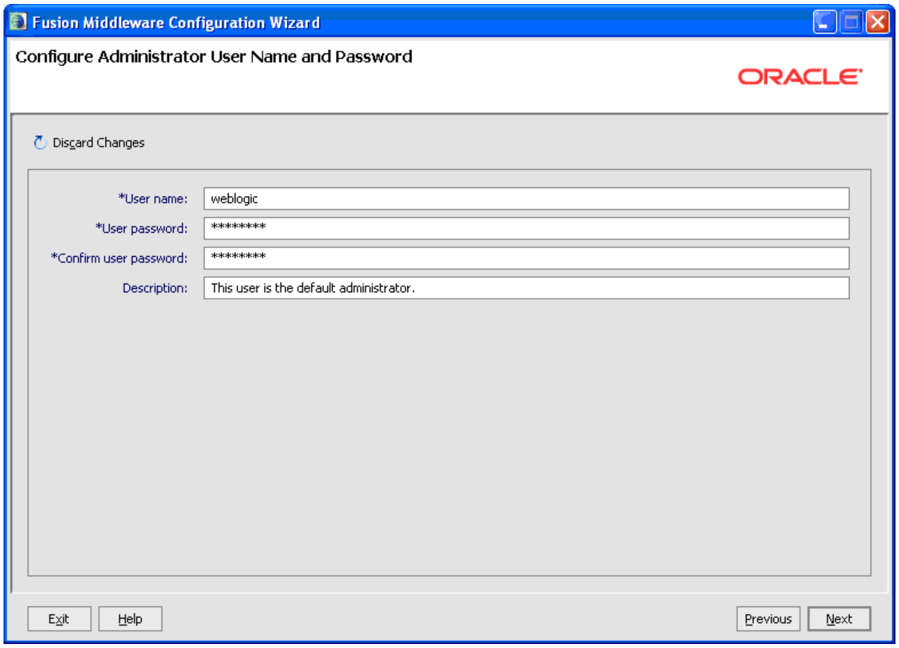
Enter the name and location for the domain:

Domain name: base_domain

Domain location: C:\Oracle\Middleware\user_projects\domains

11. Click Next.

*Figure A–12 Configure Administrator User Name and Password screen*



Configure Administrator User Name and Password

*User name: weblogic

*User password: ********

*Confirm user password: ********

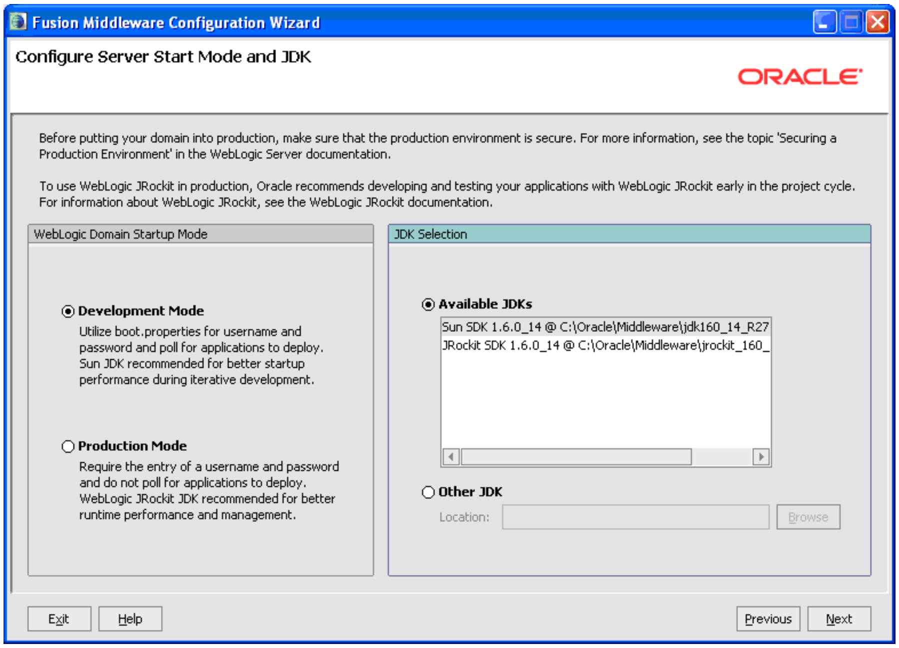
Description: This user is the default administrator.

User Password:

"welcome1"

12. Click Next.

***Figure A–13 Configure Server Start Mode JDK screen***



Configure Server Start Mode and JDK

Before putting your domain into production, make sure that the production environment is secure. For more information, see the topic 'Securing a Production Environment' in the WebLogic Server documentation.

To use WebLogic JRockit in production, Oracle recommends developing and testing your applications with WebLogic JRockit early in the project cycle. For information about WebLogic JRockit, see the WebLogic JRockit documentation.

WebLogic Domain Startup Mode

● Development Mode
Utilize boot.properties for username and password and poll for applications to deploy. Sun JDK recommended for better startup performance during iterative development.

○ Production Mode
Require the entry of a username and password and do not poll for applications to deploy. WebLogic JRockit JDK recommended for better runtime performance and management.

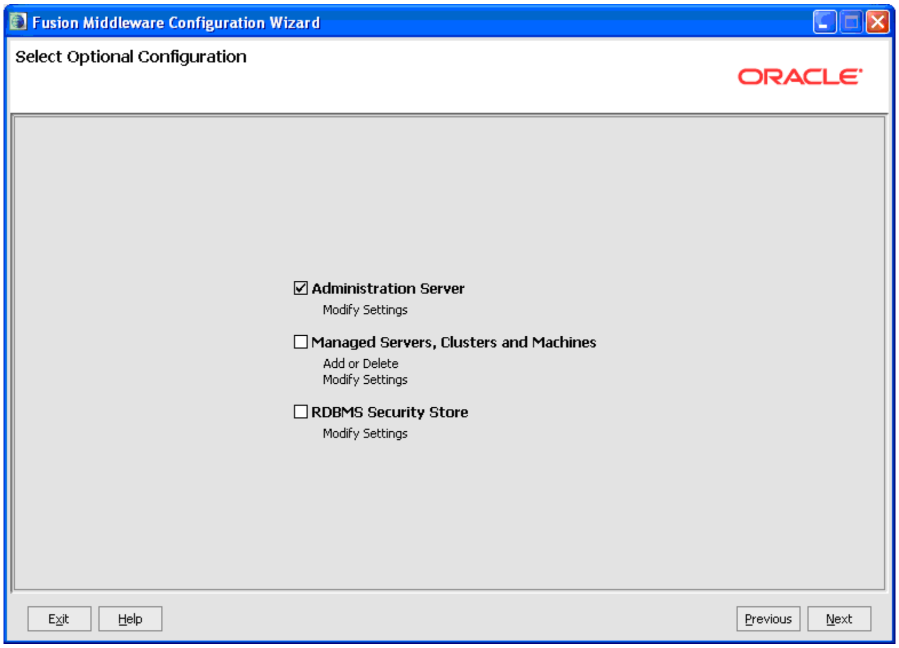
JDK Selection

● Available JDKs
Sun SDK 1.6.0_14 @ C:\Oracle\Middleware\jdk160_14_R27
JRockit SDK 1.6.0_14 @ C:\Oracle\Middleware\jrockit_160_

○ Other JDK
Location:

**13.** Click Next.

***Figure A–14 Select Optional Configuration screen***



Select Optional Configuration

☑ Administration Server
Modify Settings

□ Managed Servers, Clusters and Machines
Add or Delete
Modify Settings

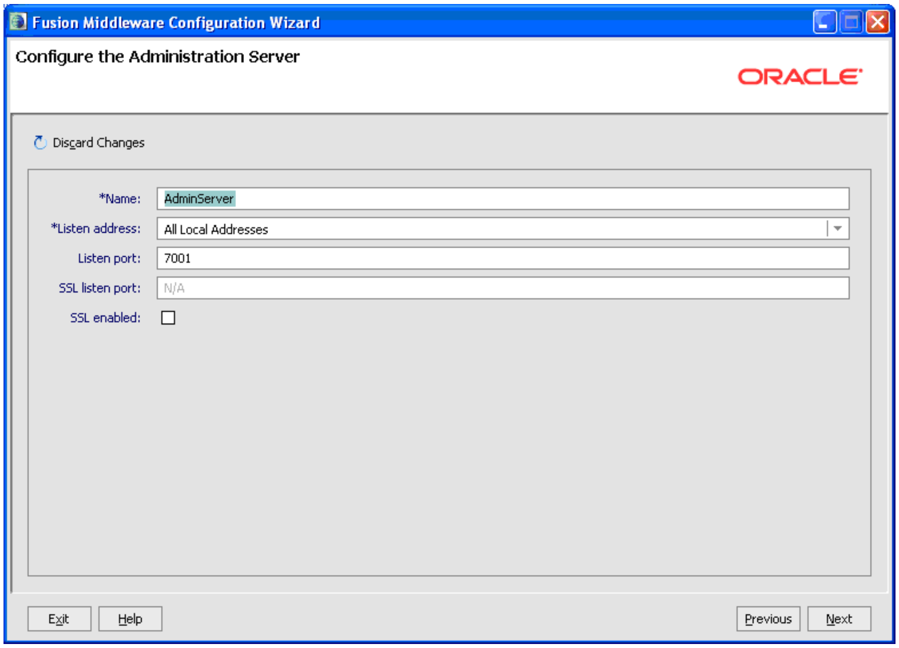
□ RDBMS Security Store
Modify Settings

Select:

- Administration Server

Click Next.

***Figure A–15 Configure the Administrator Server screen***



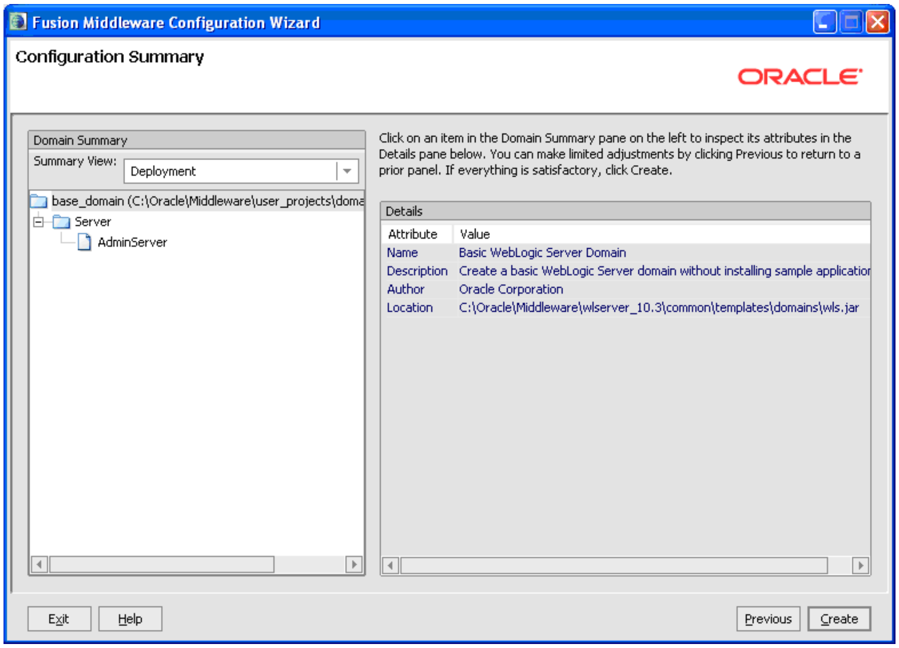
Configure the Administration Server

Discard Changes

| | |
|---|---|
| *Name: | AdminServer |
| *Listen address: | All Local Addresses |
| Listen port: | 7001 |
| SSL listen port: | N/A |
| SSL enabled: | □ |

**14.** Use defaults and click Next.

***Figure A–16 Configuration Summary screen***



Configuration Summary

Domain Summary

Summary View: Deployment

- base_domain (C:\Oracle\Middleware\user_projects\doma
  - Server
    - AdminServer

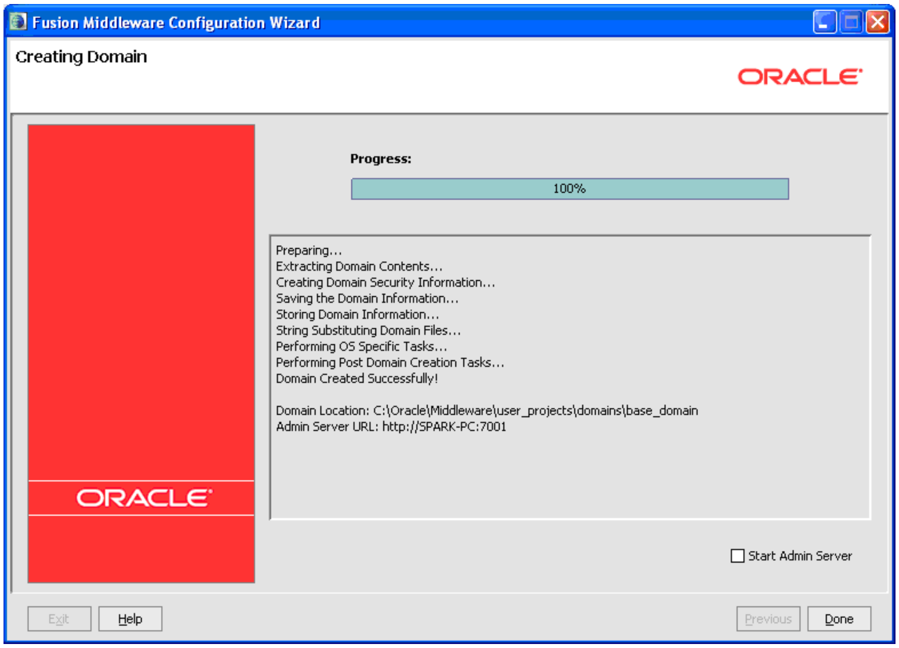
Click on an item in the Domain Summary pane on the left to inspect its attributes in the Details pane below. You can make limited adjustments by clicking Previous to return to a prior panel. If everything is satisfactory, click Create.

Details

| Attribute | Value |
|---|---|
| Name | Basic WebLogic Server Domain |
| Description | Create a basic WebLogic Server domain without installing sample applicatior |
| Author | Oracle Corporation |
| Location | C:\Oracle\Middleware\wlserver_10.3\common\templates\domains\wls.jar |

**15.** Click Create.

*Figure A–17 Creating Domain screen*



```
Preparing...
Extracting Domain Contents...
Creating Domain Security Information...
Saving the Domain Information...
Storing Domain Information...
String Substituting Domain Files...
Performing OS Specific Tasks...
Performing Post Domain Creation Tasks...
Domain Created Successfully!

Domain Location: C:\Oracle\Middleware\user_projects\domains\base_domain
Admin Server URL: http://SPARK-PC:7001
```

□ Start Admin Server

16. Copy jt400.jar, JDEWorldJDBC.jar, log4j jar, and BaseJar.jar to WebLogic server library.

    (WLS_Home\Middleware\user_projects\domains\base_domain\lib

    The JDEWorldJDBC.jar and the BaseJar.jar are included in the Web Services .zip file downloaded from the MyOracleSupport website.

    For details about the latest version supported for log4j, see Doc ID 2318897.1 in My Oracle Support. (WS: Instructions to Address JD Edwards World Security Vulnerabilities (Doc ID 2318897.1) (Release A9.3 Update)

17. Install the custom security authenticator into WebLogic server environment.

    Copy the MJF (e.g. WorldAuthenticator.jar) to

    <WL_HOME>/server/lib/mbeantypes.

    The WorldAuthenticator.jar file is included in the Web Services .zip file downloaded from the MyOracleSupport website.

# B

# Create WebSphere Application Server

This appendix contains the topic:

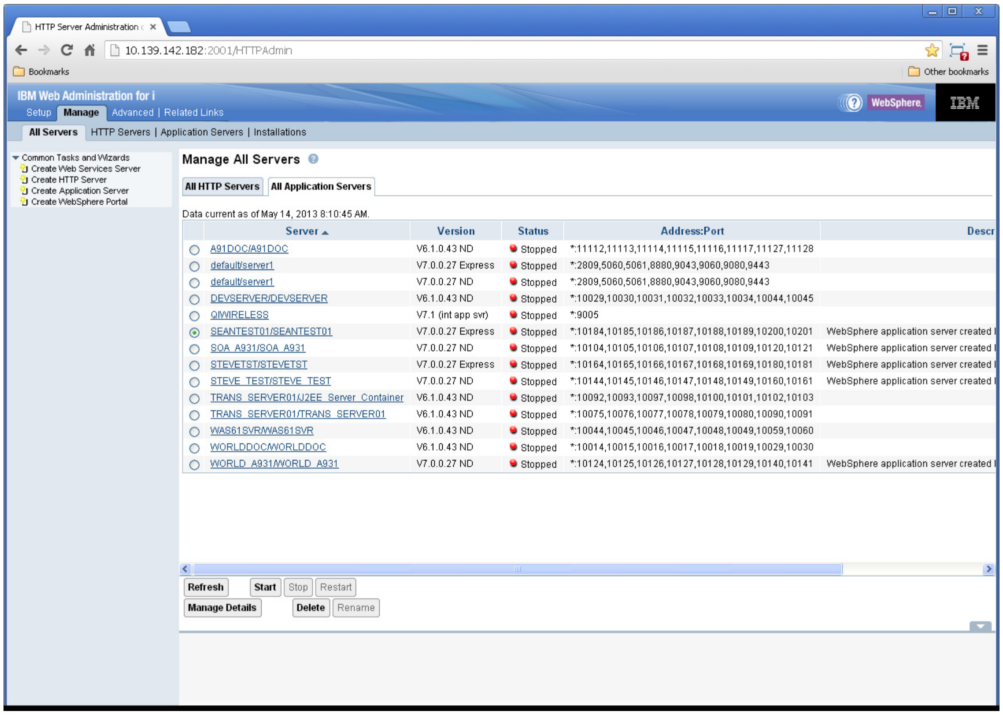
- Section B.1, "Creating the WebSphere Application Server."

## B.1 Creating the WebSphere Application Server

### To create Application Servers in WebSphere

1. Launch the IBM Web Administrator for i: http://localhost:2001/HTTPAdmin.

*Figure B–1 IBM Web Administrator screen*



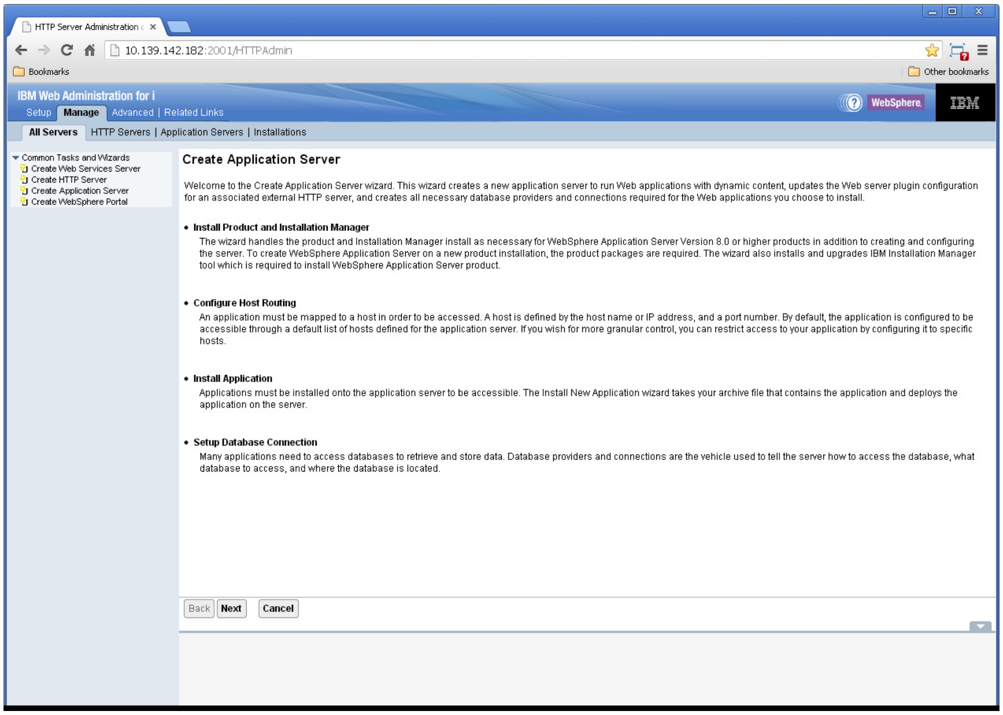
Manage All Servers

Data current as of May 14, 2013 8:10:45 AM.

| | Server ▲ | Version | Status | Address:Port | Descr |
|---|---|---|---|---|---|
| ○ | A91DOC/A91DOC | V6.1.0.43 ND | ● Stopped | *:11112,11113,11114,11115,11116,11117,11127,11128 | |
| ○ | default/server1 | V7.0.0.27 Express | ● Stopped | *:2809,5060,5061,8880,9043,9060,9080,9443 | |
| ○ | default/server1 | V7.0.0.27 ND | ● Stopped | *:2809,5060,5061,8880,9043,9060,9080,9443 | |
| ○ | DEVSERVER/DEVSERVER | V6.1.0.43 ND | ● Stopped | *:10029,10030,10031,10032,10033,10034,10044,10045 | |
| ○ | QIWIRELESS | V7.1 (int app svr) | ● Stopped | *:9005 | |
| ● | SEANTEST01/SEANTEST01 | V7.0.0.27 Express | ● Stopped | *:10184,10185,10186,10187,10188,10189,10200,10201 | WebSphere application server created |
| ○ | SOA_A931/SOA_A931 | V7.0.0.27 ND | ● Stopped | *:10104,10105,10106,10107,10108,10109,10120,10121 | WebSphere application server created |
| ○ | STEVETST/STEVETST | V7.0.0.27 Express | ● Stopped | *:10164,10165,10166,10167,10168,10169,10180,10181 | WebSphere application server created |
| ○ | STEVE_TEST/STEVE_TEST | V7.0.0.27 ND | ● Stopped | *:10144,10145,10146,10147,10148,10149,10160,10161 | WebSphere application server created |
| ○ | TRANS_SERVER01/J2EE_Server_Container | V6.1.0.43 ND | ● Stopped | *:10092,10093,10097,10098,10100,10101,10102,10103 | |
| ○ | TRANS_SERVER01/TRANS_SERVER01 | V6.1.0.43 ND | ● Stopped | *:10075,10076,10077,10078,10079,10080,10090,10091 | |
| ○ | WAS61SVR/WAS61SVR | V6.1.0.43 ND | ● Stopped | *:10044,10045,10046,10047,10048,10049,10059,10060 | |
| ○ | WORLDDOC/WORLDDOC | V6.1.0.43 ND | ● Stopped | *:10014,10015,10016,10017,10018,10019,10029,10030 | |
| ○ | WORLD_A931/WORLD_A931 | V7.0.0.27 ND | ● Stopped | *:10124,10125,10126,10127,10128,10129,10140,10141 | WebSphere application server created |

2. Click Create Application Server.

*Figure B–2 Create Application Server screen*



HTTP Server Administration
10.139.142.182:2001/HTTPAdmin
Bookmarks
Other bookmarks
IBM Web Administration for i
Setup | Manage | Advanced | Related Links
All Servers | HTTP Servers | Application Servers | Installations
Common Tasks and Wizards
Create Web Services Server
Create HTTP Server
Create Application Server
Create WebSphere Portal
WebSphere
IBM
Back
Next
Cancel

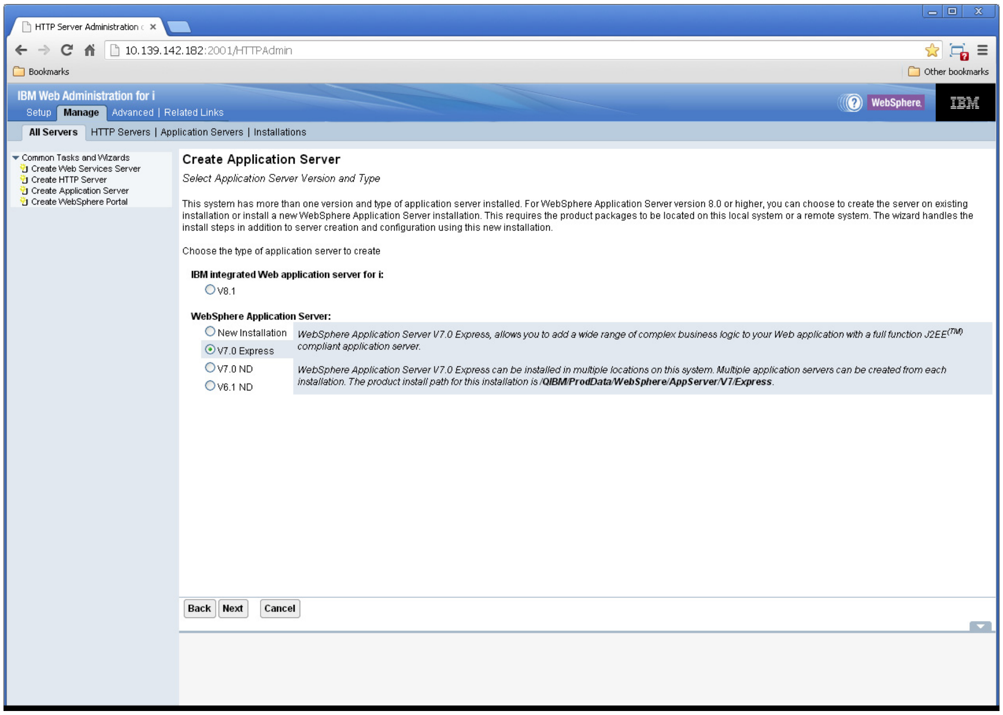
**Create Application Server**

Welcome to the Create Application Server wizard. This wizard creates a new application server to run Web applications with dynamic content, updates the Web server plugin configuration for an associated external HTTP server, and creates all necessary database providers and connections required for the Web applications you choose to install.

- **Install Product and Installation Manager**
  The wizard handles the product and Installation Manager install as necessary for WebSphere Application Server Version 8.0 or higher products in addition to creating and configuring the server. To create WebSphere Application Server on a new product installation, the product packages are required. The wizard also installs and upgrades IBM Installation Manager tool which is required to install WebSphere Application Server product.
- **Configure Host Routing**
  An application must be mapped to a host in order to be accessed. A host is defined by the host name or IP address, and a port number. By default, the application is configured to be accessible through a default list of hosts defined for the application server. If you wish for more granular control, you can restrict access to your application by configuring it to specific hosts.
- **Install Application**
  Applications must be installed onto the application server to be accessible. The Install New Application wizard takes your archive file that contains the application and deploys the application on the server.
- **Setup Database Connection**
  Many applications need to access databases to retrieve and store data. Database providers and connections are the vehicle used to tell the server how to access the database, what database to access, and where the database is located.

**3.** Click Next.

*Figure B–3 Create Application Server screen*



HTTP Server Administration
10.139.142.182:2001/HTTPAdmin
Bookmarks
Other bookmarks
IBM Web Administration for i
Setup | Manage | Advanced | Related Links
All Servers | HTTP Servers | Application Servers | Installations
Common Tasks and Wizards
Create Web Services Server
Create HTTP Server
Create Application Server
Create WebSphere Portal
WebSphere
IBM
Back
Next
Cancel

**Create Application Server**

*Select Application Server Version and Type*

This system has more than one version and type of application server installed. For WebSphere Application Server version 8.0 or higher, you can choose to create the server on existing installation or install a new WebSphere Application Server installation. This requires the product packages to be located on this local system or a remote system. The wizard handles the install steps in addition to server creation and configuration using this new installation.

Choose the type of application server to create

**IBM integrated Web application server for i:**

○ V8.1

**WebSphere Application Server:**

○ New Installation
● V7.0 Express
○ V7.0 ND
○ V6.1 ND

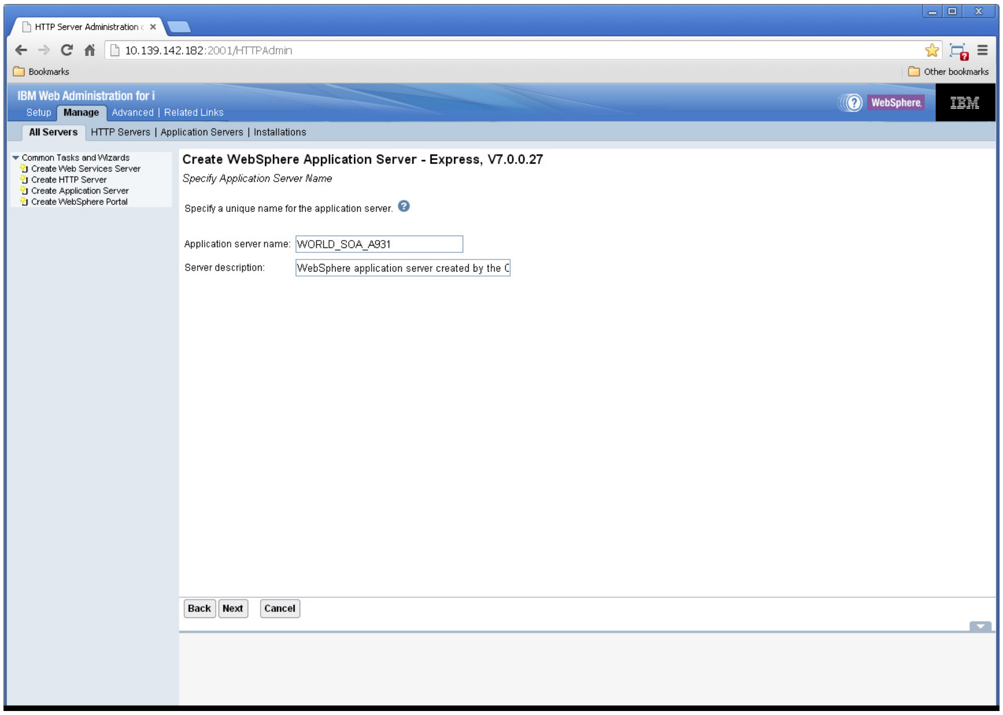
*WebSphere Application Server V7.0 Express, allows you to add a wide range of complex business logic to your Web application with a full function J2EE(TM) compliant application server.*

*WebSphere Application Server V7.0 Express can be installed in multiple locations on this system. Multiple application servers can be created from each installation. The product install path for this installation is **/QIBM/ProdData/WebSphere/AppServer/V7/Express**.*

**4.** Select the desired WebSphere Application Server version, and Click Next.

**Note:** Please refer to the certification information on myoraclesupport.com to determine the certified versions of WebSphere.

*Figure B–4 Create WebSphere Application Server screen*


HTTP Server Administration
10.139.142.182:2001/HTTPAdmin
Bookmarks
Other bookmarks
IBM Web Administration for i
Setup
Manage
Advanced | Related Links
WebSphere
IBM
All Servers
HTTP Servers | Application Servers | Installations
Common Tasks and Wizards
Create Web Services Server
Create HTTP Server
Create Application Server
Create WebSphere Portal
Back
Next
Cancel

Create WebSphere Application Server - Express, V7.0.0.27

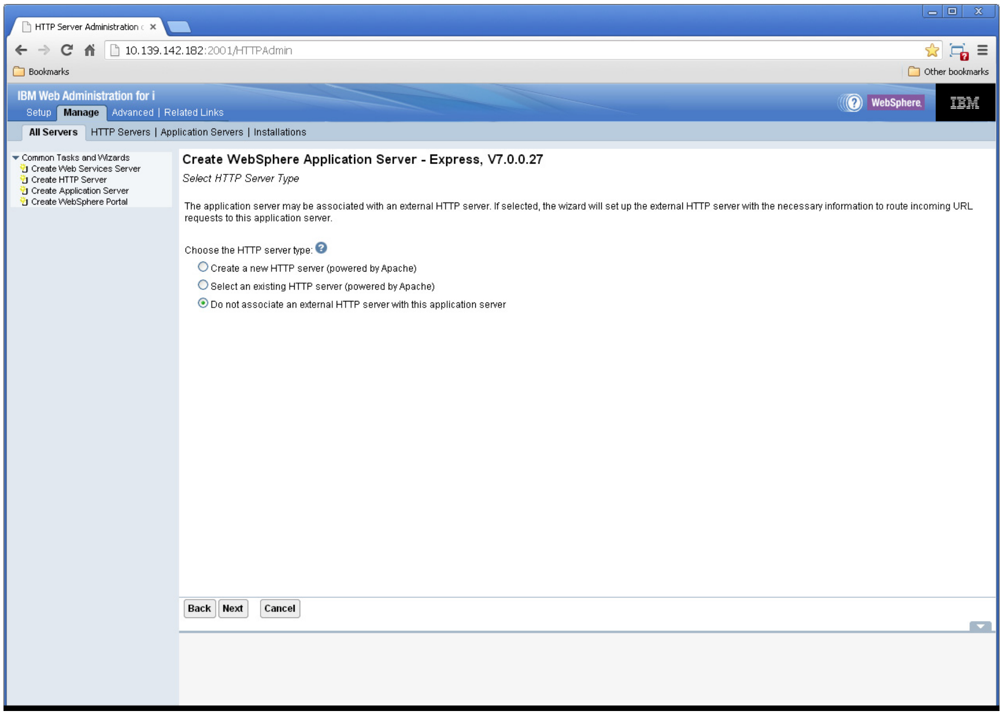
*Specify Application Server Name*

Specify a unique name for the application server.

Application server name: WORLD_SOA_A931

Server description: WebSphere application server created by the C

5. Enter Application Server Name and Description and then click Next.



Create WebSphere Application Server - Express, V7.0.0.27

*Select HTTP Server Type*

The application server may be associated with an external HTTP server. If selected, the wizard will set up the external HTTP server with the necessary information to route incoming URL requests to this application server.

Choose the HTTP server type:

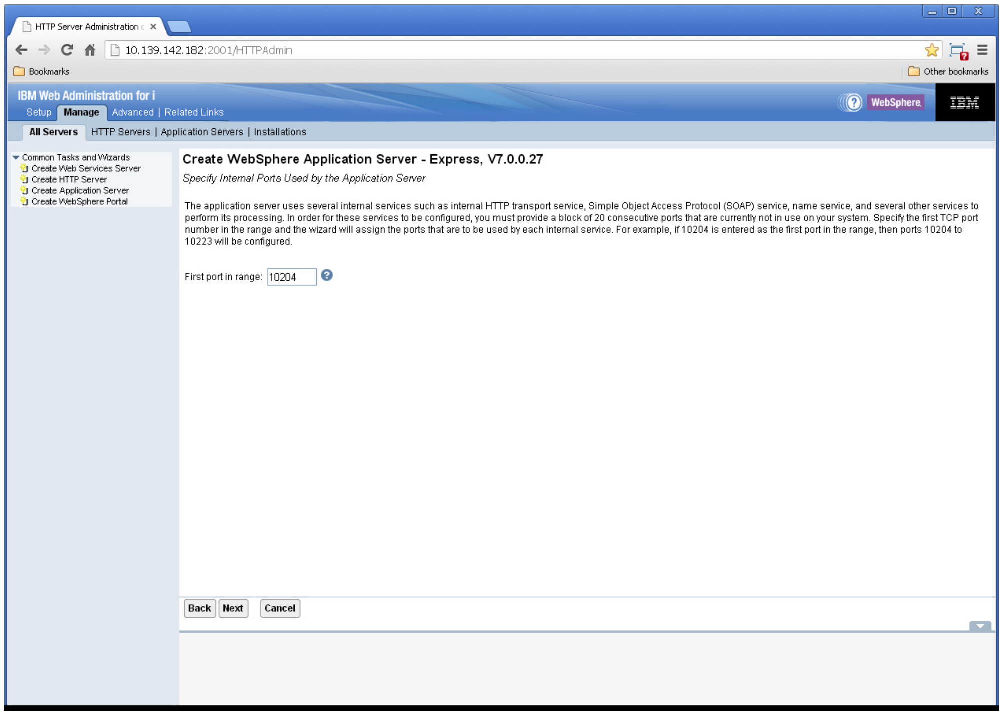
○ Create a new HTTP server (powered by Apache)

○ Select an existing HTTP server (powered by Apache)

● Do not associate an external HTTP server with this application server

*Figure B–5 Create WebSphere Application Server screen*

6. Select **Donot associate an external HTTP server with this application server** and then click Next.



Create WebSphere Application Server - Express, V7.0.0.27

*Specify Internal Ports Used by the Application Server*

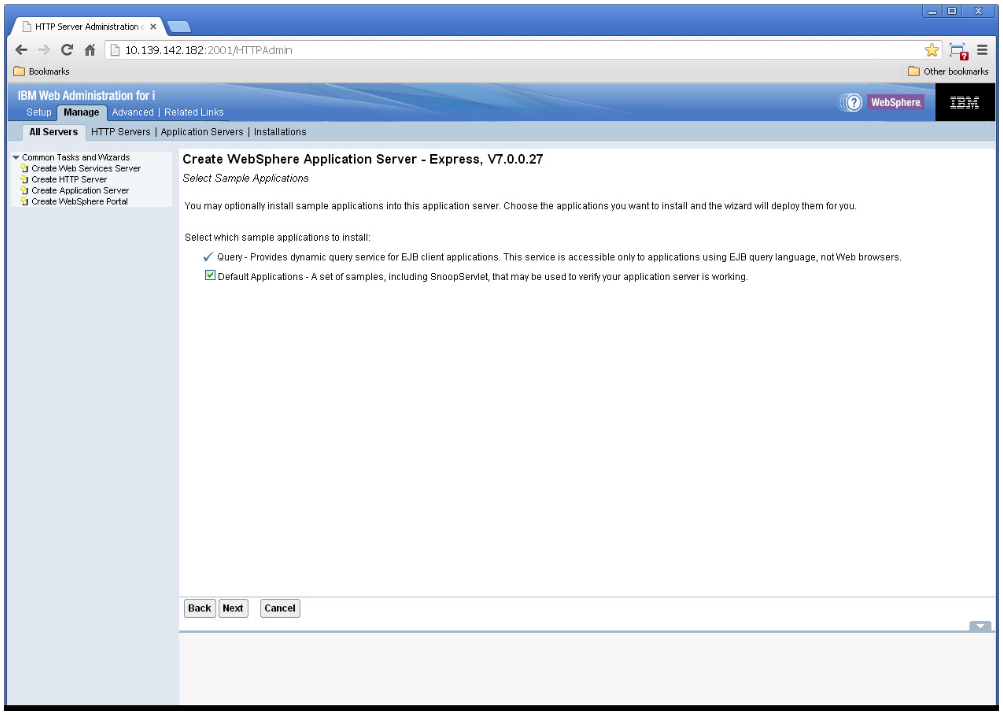
The application server uses several internal services such as internal HTTP transport service, Simple Object Access Protocol (SOAP) service, name service, and several other services to perform its processing. In order for these services to be configured, you must provide a block of 20 consecutive ports that are currently not in use on your system. Specify the first TCP port number in the range and the wizard will assign the ports that are to be used by each internal service. For example, if 10204 is entered as the first port in the range, then ports 10204 to 10223 will be configured.

First port in range: 10204

*Figure B–6 Create WebSphere Application Server screen*

7. Click Next.

*Figure B–7 Create WebSphere Application Server screen*


HTTP Server Administration
10.139.142.182:2001/HTTPAdmin
Bookmarks
Other bookmarks
IBM Web Administration for i
Setup
Manage
Advanced | Related Links
WebSphere
IBM
All Servers
HTTP Servers | Application Servers | Installations
Common Tasks and Wizards
Create Web Services Server
Create HTTP Server
Create Application Server
Create WebSphere Portal
Back
Next
Cancel

Create WebSphere Application Server - Express, V7.0.0.27

*Select Sample Applications*

You may optionally install sample applications into this application server. Choose the applications you want to install and the wizard will deploy them for you.

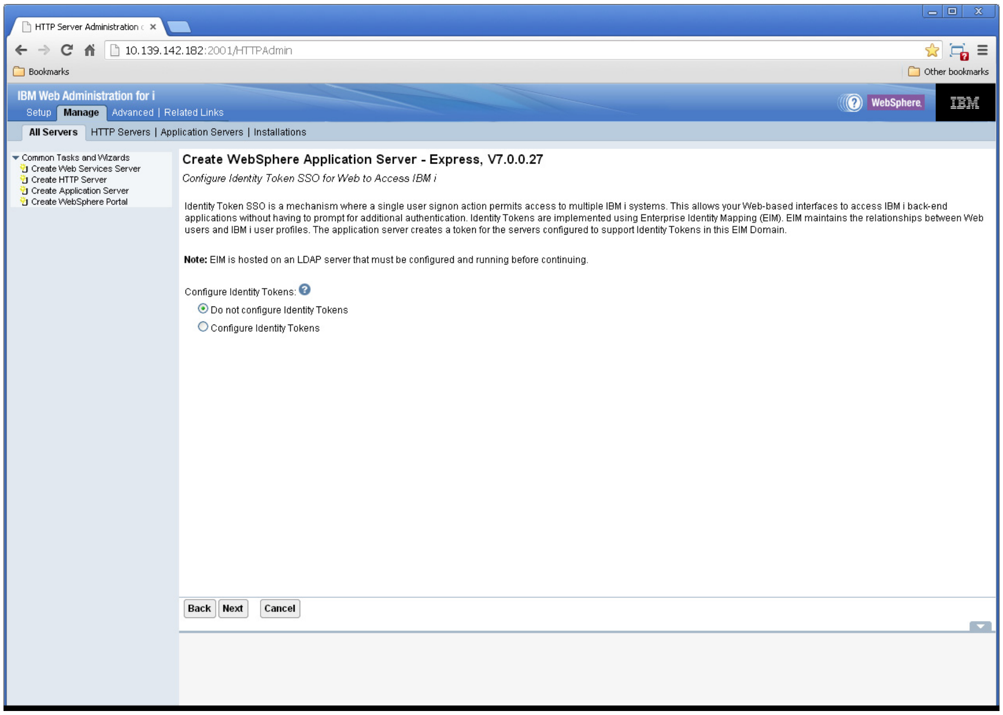
Select which sample applications to install:

✓ Query - Provides dynamic query service for EJB client applications. This service is accessible only to applications using EJB query language, not Web browsers.

☑ Default Applications - A set of samples, including SnoopServlet, that may be used to verify your application server is working.

8. Click Next.

*Figure B–8 Create WebSphere Application Server screen*


HTTP Server Administration
10.139.142.182:2001/HTTPAdmin
Bookmarks
Other bookmarks
IBM Web Administration for i
Setup
Manage
Advanced | Related Links
WebSphere
IBM
All Servers
HTTP Servers | Application Servers | Installations
Common Tasks and Wizards
Create Web Services Server
Create HTTP Server
Create Application Server
Create WebSphere Portal
Back
Next
Cancel

Create WebSphere Application Server - Express, V7.0.0.27

*Configure Identity Token SSO for Web to Access IBM i*

Identity Token SSO is a mechanism where a single user signon action permits access to multiple IBM i systems. This allows your Web-based interfaces to access IBM i back-end applications without having to prompt for additional authentication. Identity Tokens are implemented using Enterprise Identity Mapping (EIM). EIM maintains the relationships between Web users and IBM i user profiles. The application server creates a token for the servers configured to support Identity Tokens in this EIM Domain.

**Note:** EIM is hosted on an LDAP server that must be configured and running before continuing.

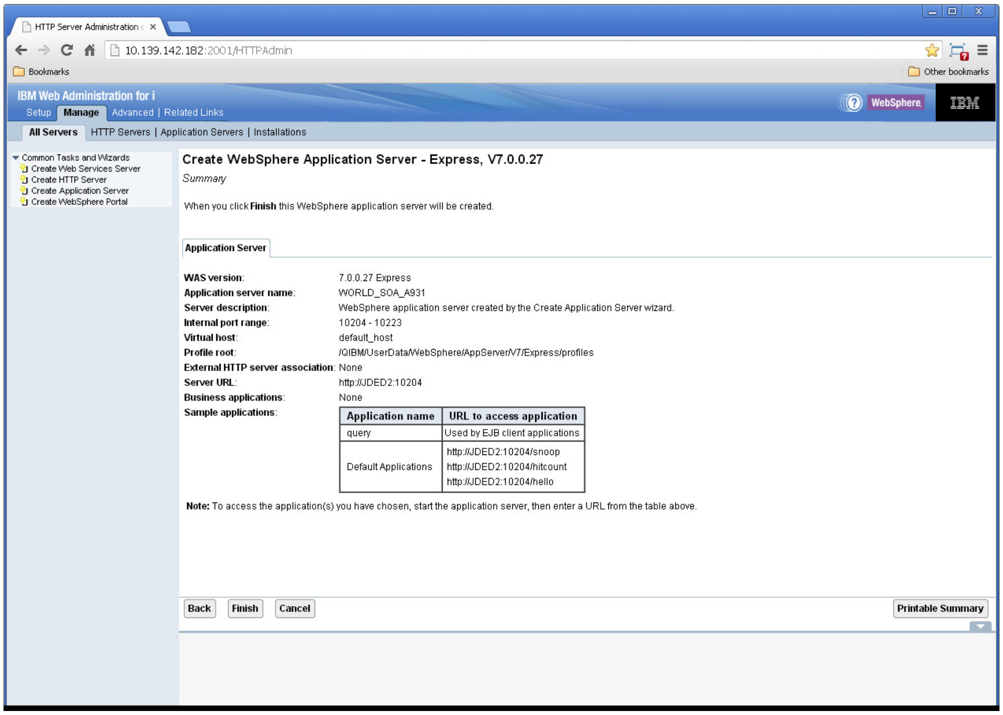
Configure Identity Tokens:

● Do not configure Identity Tokens

○ Configure Identity Tokens

9. Click Next.

*Figure B–9 Create WebSphere Application Server screen*



HTTP Server Administration
10.139.142.182:2001/HTTPAdmin
Bookmarks
Other bookmarks
IBM Web Administration for i
Setup
Manage
Advanced | Related Links
WebSphere
IBM
All Servers
HTTP Servers | Application Servers | Installations
Common Tasks and Wizards
Create Web Services Server
Create HTTP Server
Create Application Server
Create WebSphere Portal

Create WebSphere Application Server - Express, V7.0.0.27

*Summary*

When you click **Finish** this WebSphere application server will be created.

| | |
|---|---|
| **WAS version**: | 7.0.0.27 Express |
| **Application server name**: | WORLD_SOA_A931 |
| **Server description**: | WebSphere application server created by the Create Application Server wizard. |
| **Internal port range**: | 10204 - 10223 |
| **Virtual host**: | default_host |
| **Profile root**: | /QIBM/UserData/WebSphere/AppServer/V7/Express/profiles |
| **External HTTP server association**: | None |
| **Server URL**: | http://JDED2:10204 |
| **Business applications**: | None |
| **Sample applications**: | |

| Application name | URL to access application |
|---|---|
| query | Used by EJB client applications |
| Default Applications | http://JDED2:10204/snoop<br>http://JDED2:10204/hitcount<br>http://JDED2:10204/hello |

**Note:** To access the application(s) you have chosen, start the application server, then enter a URL from the table above.

**10.** Click Finish.

# C

# Code and Deploy Your Own Web Services

This appendix contains these topics:

- Section C.1, "Coding and Deploying Your Own Web Services,"
- Section C.2, "Deployment Profiles."

## C.1 Coding and Deploying Your Own Web Services

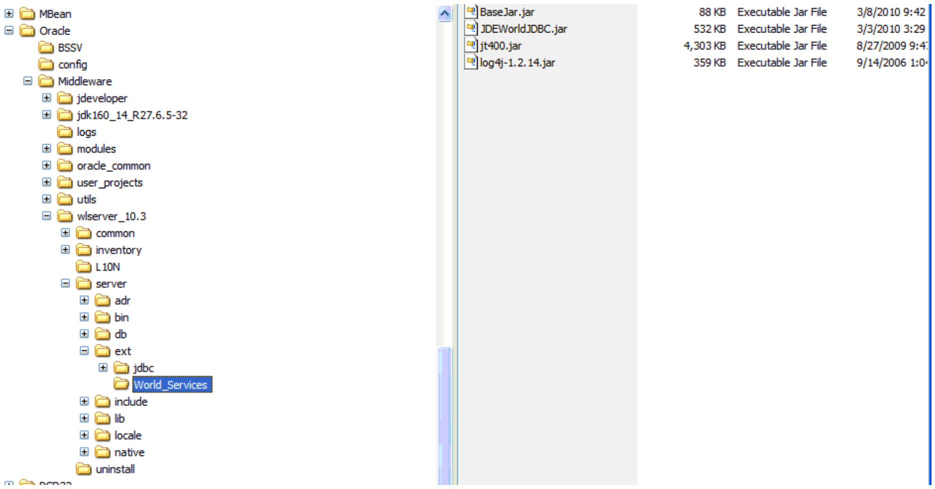
**To code and delpoy your own Web Services**

- Use the WebServiceBase_v4 and WebServiceBaseImpl_v4 classes to create custom web services.
- Both classes exist in the BaseJar.jar file.
- Extending one of the base classes (WebServiceBase_v4 and WebServiceBaseImpl_v4) gives you an RPGInvoke and Connection.
- Use the RPGInvoke to call an RPG program on the JDEdwards World system.
- Use the Connection to access the JDEdwards World database.
- Extend WebServiceBase_v4 when creating services that only require executing a JD Edwards World program.
- Extend WebServiceBaseImpl_v4 when creating a web service that requires database access.
- Refer to the source zip file for examples on how to create web services using the BaseJar.jar file.

## C.2 Deployment Profiles

The jar files required for the Web Services were configured in the previous procedure by adding the jar files to the World_Services folder and setting the server classpath to include these jars.

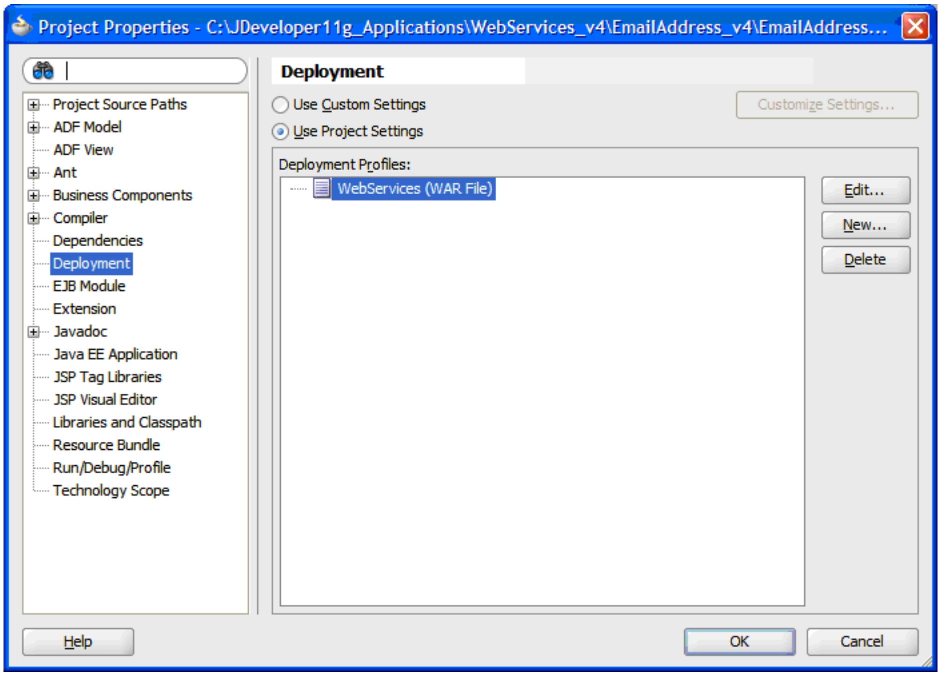
*Figure C–1 World_Services Folder*



| | | | |
|---|---|---|---|
| BaseJar.jar | 88 KB | Executable Jar File | 3/8/2010 9:42 |
| JDEWorldJDBC.jar | 532 KB | Executable Jar File | 3/3/2010 3:29 |
| jt400.jar | 4,303 KB | Executable Jar File | 8/27/2009 9:4 |
| log4j-1.2.14.jar | 359 KB | Executable Jar File | 9/14/2006 1:0 |

In Jdeveloper, the individual projects only need to deploy those files that are required by the web service.

*Figure C–2 Project Properties screen*


Project Properties - C:\JDeveloper11g_Applications\WebServices_v4\EmailAddress_v4\EmailAddress...

Deployment

○ Use Custom Settings

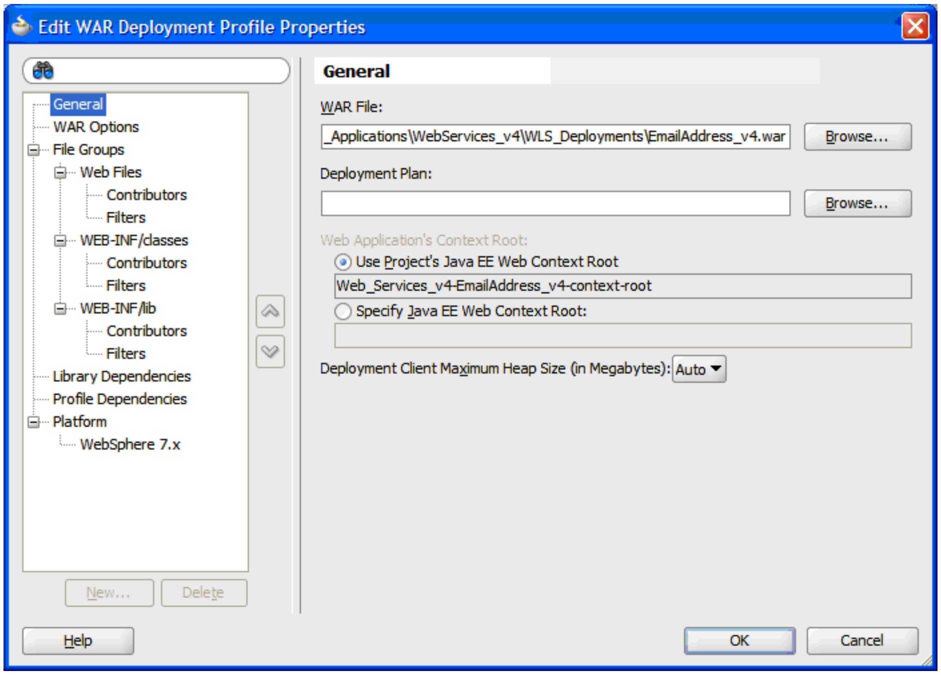
● Use Project Settings

Deployment Profiles:

WebServices (WAR File)

1. Highlight WebServices(WAR File) and then click Edit.

***Figure C–3 Edit WAR Deployment Profile Properties screen***



General

WAR File: _Applications\WebServices_v4\WLS_Deployments\EmailAddress_v4.war

Deployment Plan:

Web Application's Context Root:

● Use Project's Java EE Web Context Root

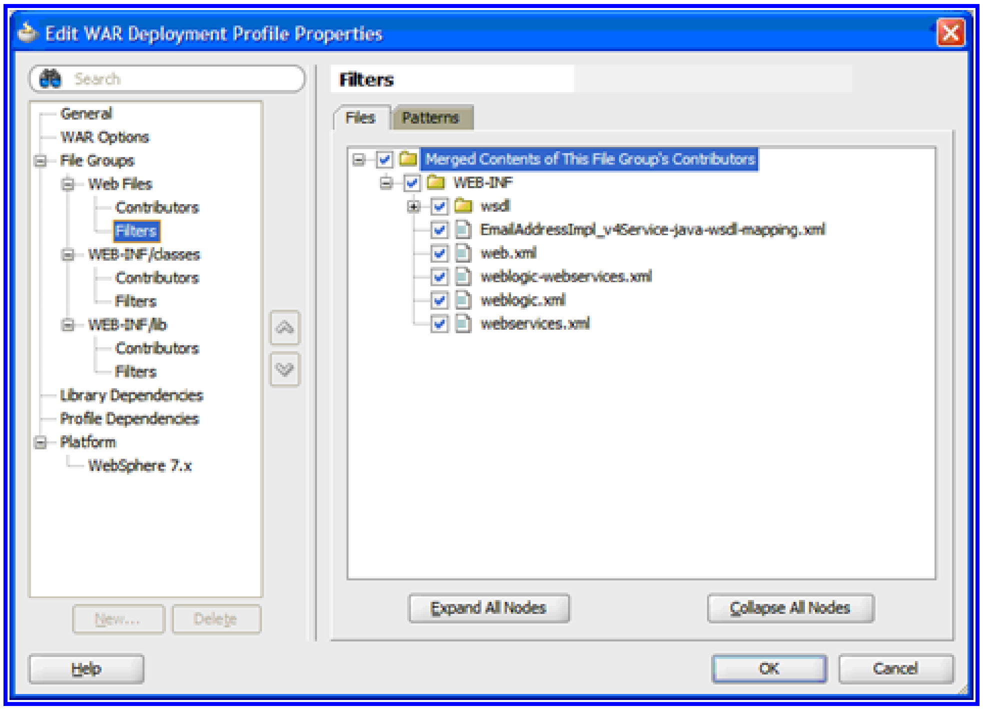
Web_Services_v4-EmailAddress_v4-context-root

○ Specify Java EE Web Context Root:

Deployment Client Maximum Heap Size (in Megabytes): Auto

2. Enter a path where you want your WAR file created.

***Figure C–4 Edit WAR Deployment Profile Properties screen***



Filters

☑ Merged Contents of This File Group's Contributors

☑ WEB-INF

☑ wsdl

☑ EmailAddressImpl_v4Service-java-wsdl-mapping.xml

☑ web.xml

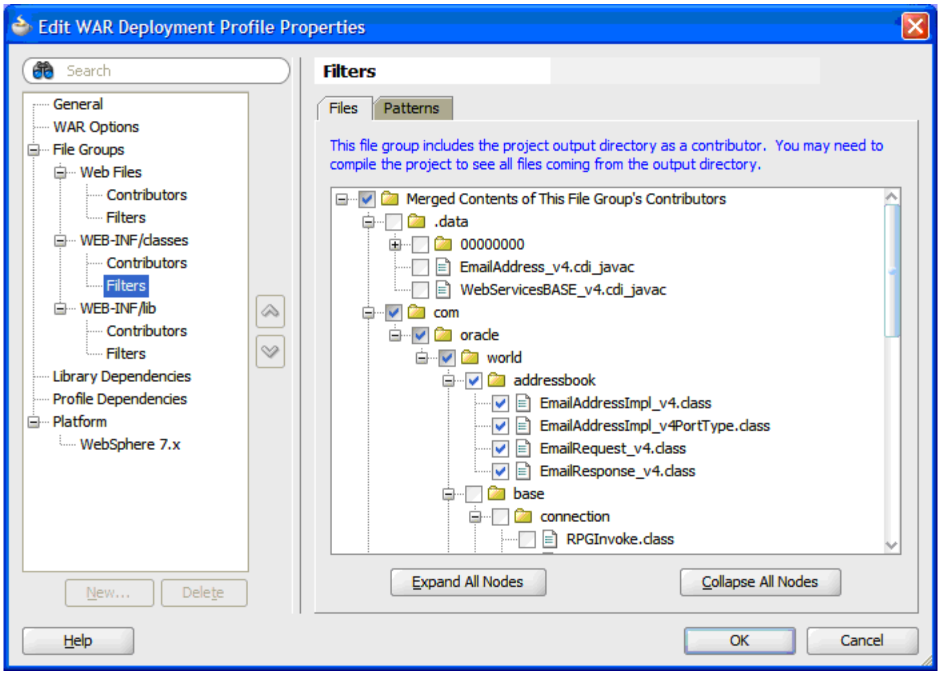
☑ weblogic-webservices.xml

☑ weblogic.xml

☑ webservices.xml

3. Under Web Files > Filters, select all files.

*Figure C–5 Edit WAR Deployment Profile Properties screen*

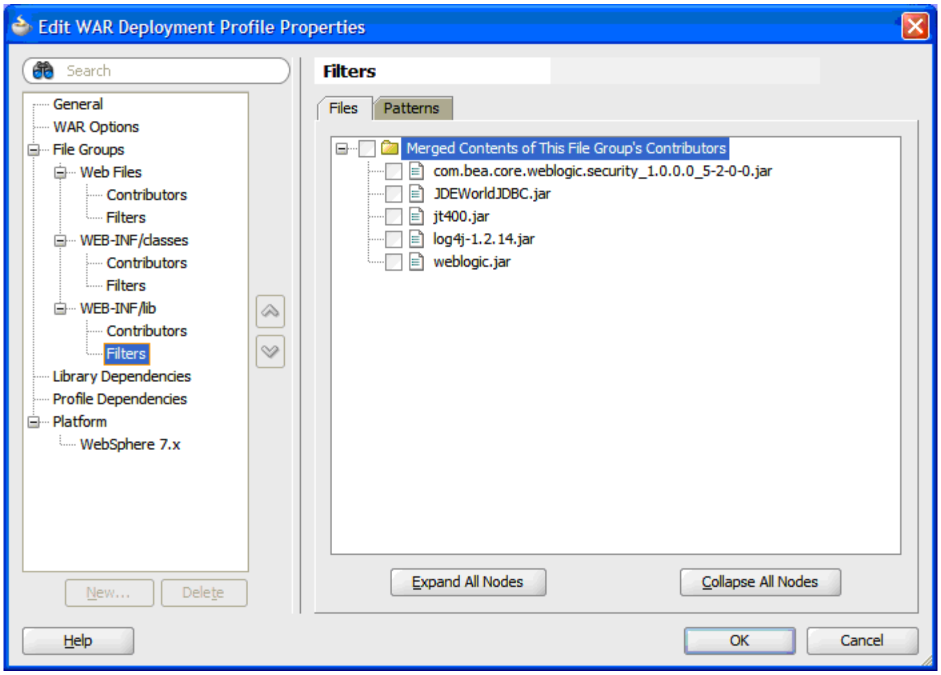


This file group includes the project output directory as a contributor. You may need to compile the project to see all files coming from the output directory.

- ☑ Merged Contents of This File Group's Contributors
  - □ .data
    - □ 00000000
    - □ EmailAddress_v4.cdi_javac
    - □ WebServicesBASE_v4.cdi_javac
  - ☑ com
    - ☑ oracle
      - ☑ world
        - ☑ addressbook
          - ☑ EmailAddressImpl_v4.class
          - ☑ EmailAddressImpl_v4PortType.class
          - ☑ EmailRequest_v4.class
          - ☑ EmailResponse_v4.class
        - □ base
          - □ connection
            - □ RPGInvoke.class

4. Under WEB-INF/classes, only select the files specific to this service. The files under base are included in the BaseJar.jar, so they do not need to be included here.

*Figure C–6 Edit WAR Deployment Profile Properties screen*



- □ Merged Contents of This File Group's Contributors
  - □ com.bea.core.weblogic.security_1.0.0.0_5-2-0-0.jar
  - □ JDEWorldJDBC.jar
  - □ jt400.jar
  - □ log4j-1.2.14.jar
  - □ weblogic.jar

5. Under WEB-INF/lib no classes should be selected, these jars are either part of the WLS install or were included in the server classpath in the installation instructions above.

# D

# Uninstall Service Enablement

This appendix contains the topic:

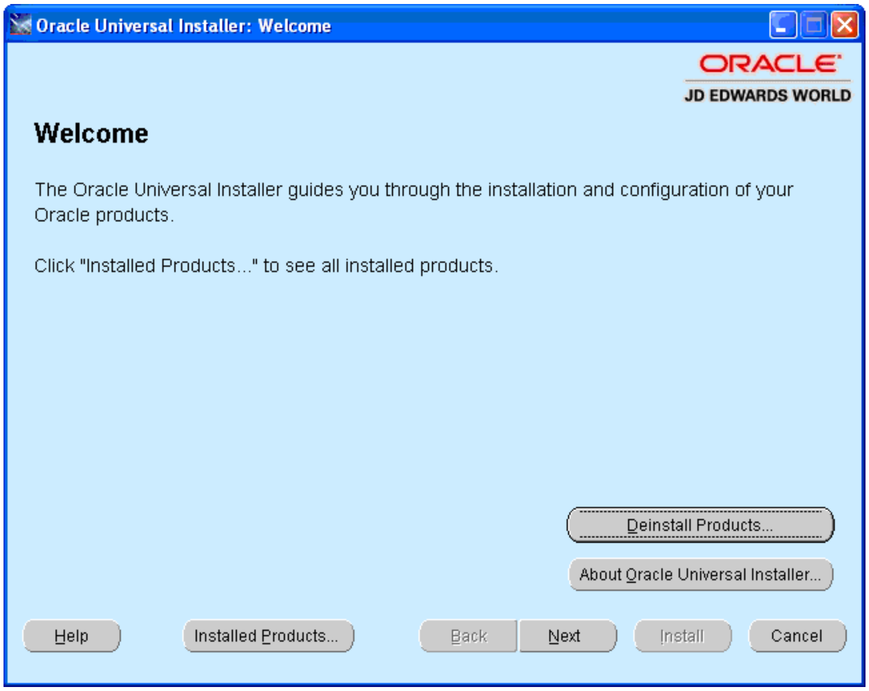
- Section D.1, "Uninstalling Service Enablement."

## D.1 Uninstalling Service Enablement

### To uninstall Service Enablement

If you need to uninstall JD Edwards World Service Enablement, use the OUI installer.

*Figure D–1 OUI Installer Welcome screen*



Oracle Universal Installer: Welcome

Welcome

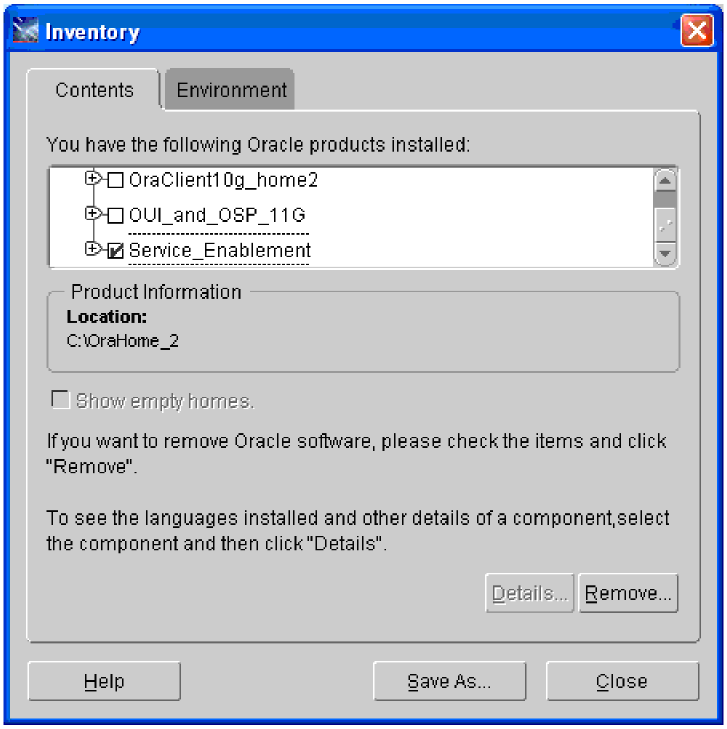
The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.

Click "Installed Products..." to see all installed products.

1. Start the OUI installer:

   Run Disk1\oui\bin\setup.exe and click Deinstall Products on the Welcome screen.

*Figure D–2 Inventory screen*



You have the following Oracle products installed:

- ☐ OraClient10g_home2
- ☐ OUI_and_OSP_11G
- ☑ Service_Enablement

Product Information
**Location:**
C:\OraHome_2

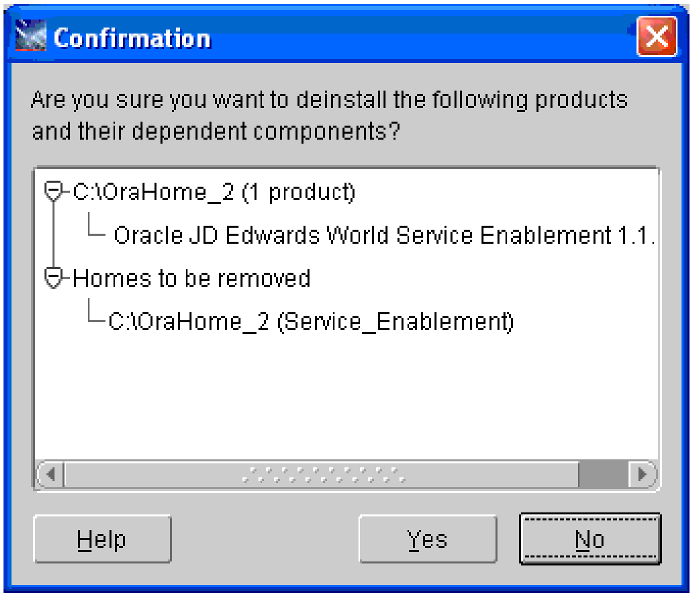
☐ Show empty homes.

If you want to remove Oracle software, please check the items and click "Remove".

To see the languages installed and other details of a component,select the component and then click "Details".

2. Select the checkbox of the Service Enablement folder name you created and then click Remove.

*Figure D–3 Confirmation screen*

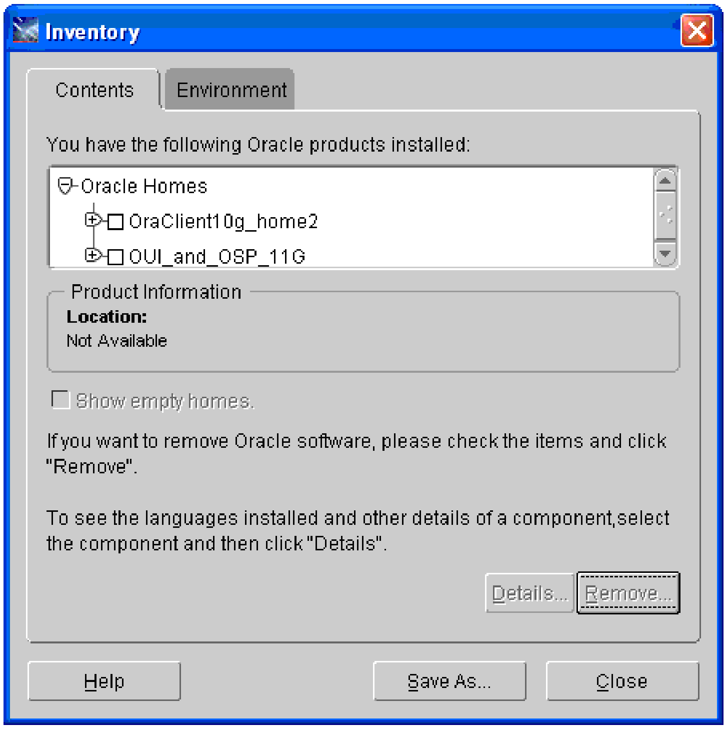


Are you sure you want to deinstall the following products and their dependent components?

- C:\OraHome_2 (1 product)
  - Oracle JD Edwards World Service Enablement 1.1.
- Homes to be removed
  - C:\OraHome_2 (Service_Enablement)

3. On the Confirmation screen, click Yes.

*Figure D–4 Inventory screen*



You have the following Oracle products installed:

- Oracle Homes
  - □ OraClient10g_home2
  - □ OUI_and_OSP_11G

Product Information

**Location:**

Not Available

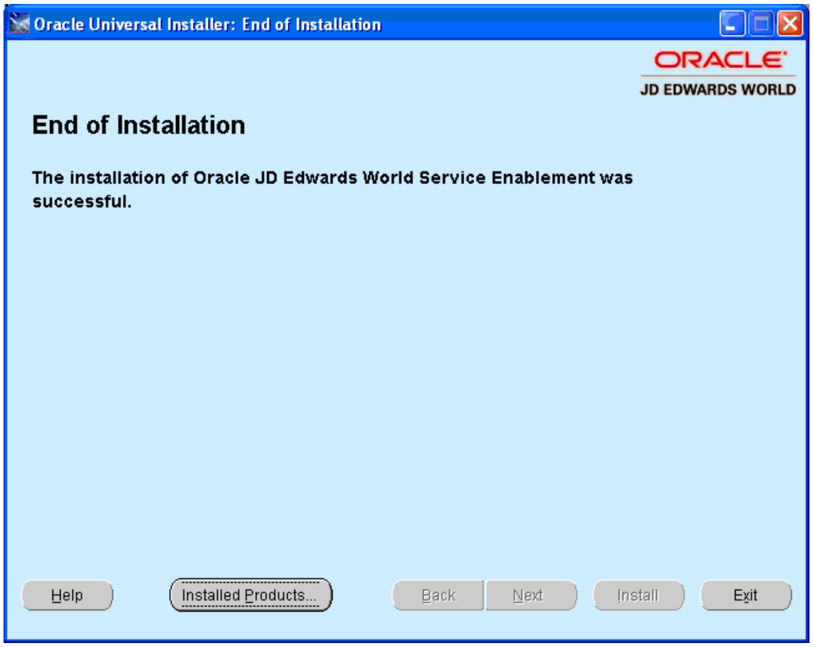
□ Show empty homes.

If you want to remove Oracle software, please check the items and click "Remove".

To see the languages installed and other details of a component,select the component and then click "Details".

4. On the Inventory screen, click Close.

*Figure D–5 End of Installation screen*

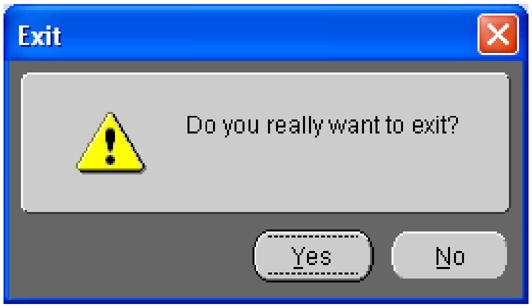


End of Installation

The installation of Oracle JD Edwards World Service Enablement was successful.

5. On the End of Installation screen, click Exit.

*Figure D–6 Exit screen*



Exit

Do you really want to exit?

6. On the Exit screen, click Yes.