Adaptive Risk Manager Offline Installation Guide 10g (10.1.4.3.0)

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Adaptive Risk Manager Offline Installation Guide, 10g (10.1.4.3.0)

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Preface

Adaptive Risk Manager Offline is an offline fraud analysis tool that evaluates existing transaction data for two main purposes:

- First, Adaptive Risk Manager Offline can be used as a stand alone security tool to analyze, detect and alert high risk transactions.
- Secondly, Adaptive Risk Manager Offline can be used in conjunction with Adaptive Risk Manager Online as a supplemental offline analysis tool and as a way to previsualize rules against real customer data without impacting customers in real-time environment.

The Adaptive Risk Manager Offline Installation Guide takes you through the installation of the Adaptive Risk Manager Offline.

After you have completed the installation procedures, refer to the *Adaptive Risk Manager Offline Administrator's Guide* for information on how to use the Adaptive Risk Manager Offline to evaluates existing transaction data.

Documentation

The Oracle Adaptive Access Manager 10g documentation includes the following:

- The Oracle® Adaptive Access Manager API Integration Guide, which provides information on natively integrating the client portion of the Adaptive Risk Manager Online solutions. In an API integration, the client application invokes the Adaptive Risk Manager Online APIs directly and manages the authentication and challenge flows.
- The Oracle® Adaptive Access Manager Database Installation Guide (Oracle), which provides information about installing the Adaptive Access Manager schema into an Oracle database. Access to the Adaptive Access Manager schema is a requirement of the Adaptive Access Manager Application Server, which hosts the Adaptive Strong Authenticator and the Adaptive Risk Manager. Note that the Adaptive Access Manager schema needs to be installed into the Oracle database before proceeding to the installation of the proxy.
- The Oracle® Adaptive Access Manager Database Installation Guide for SQL Server 2005, which provides information about installing the Adaptive Access Manager schema into SQL Server 2005. Access to the Adaptive Access Manager schema is a requirement of the Adaptive Access Manager Application Server, which hosts the Adaptive Strong Authenticator and the Adaptive Risk Manager. Note that the Adaptive Access Manager schema needs to be installed into SQL Server 2005 before proceeding to the installation of the proxy.
- The Oracle® Adaptive Access Manager Proxy Integration Guide, which provides programming information and instructions on the installation of the Adaptive Access Manager proxy, one of the components in the Adaptive Access Manager UIO deployment. The Oracle Adaptive Access Manager's Universal Installation Option (UIO) offers multi-factor authentication to Web applications without requiring any change to the application code. The Oracle® Adaptive Access Manager Proxy and The Oracle® Adaptive Access Manager Proxy Web Publishing Configuration are guides specific to the UIO deployment.

- The Oracle® Adaptive Access Manager Proxy Web Publishing Configuration, which
 provides information on creating web publishing rules and listeners so that Web
 applications and the Web UIO can be accessible from the Internet. The Oracle
 Adaptive Access Manager's Universal Installation Option (UIO) offers multi-factor
 authentication to Web applications without requiring any change to the application
 code. The Oracle® Adaptive Access Manager Proxy and The Oracle® Adaptive
 Access Manager Proxy Web Publishing Configuration are guides specific to the UIO
 deployment.
- The Oracle® Adaptive Risk Manager Online Installation Guide, which provides information on the installation of the administration user interface of Oracle Adaptive Access Manager. Adaptive Risk Manager Online is the administration user interface of Oracle Adaptive Access Manager, a set of web-based administration tools that provides sophisticated fraud monitoring, analysis, and tracking by user location, device, time of day, type of transaction, as well as a host of other factors, and evaluates these factors against a set of customizable rules.
- The Oracle® Adaptive Access Manager LDAP Configuration Guide, which provides information on how to configure the Oracle Adaptive Access Manager Application Server to allow a user to be authenticated via a user identifier and password. The intended audience of this manual are users of WebLogic and Tomcat who want to use LDAP to set up users instead of the functionality in WebLogic and Tomcat.
- The Oracle® Adaptive Access Manager Import/Export Manual, which provides information on importing and exporting groups, rule templates, and models to and from the Adaptive Access Manager schema.
- The Oracle® Adaptive Risk Manager Online Customer Care API Guide, which provides information about the Adaptive Risk Manager Online Customer Care API and provides the XML definition for each of the APIs.
- The Oracle® Adaptive Access Manager Database Tables Archiving and Purging Procedure, which provides information on the purge and archive scripts in the Oracle Adaptive Access Manager database tables of Microsoft SQL Server 2005. The procedure to trigger the scripts and information on verification and validation of script results are also provided.
- The Oracle® Adaptive Access Manager SQL Server Maintenance Guide, which provides instructions to set up the Oracle Adaptive Access Manager Maintenance Plan to purge and archive scripts in the Oracle Adaptive Access Manager database tables of Microsoft SQL Server 2005. The manual also discusses in detail how to trigger the scripts and provides information on the verification and validation of script results.
- The Oracle® Adaptive Risk Manager[™] Administrator's Guide, which provides stepby-step instructions for creating and managing groups, creating models that contain rules, and customizing and managing rules.
- The Oracle® Adaptive Risk Manager[™] Dashboard and Reporting Guide, which provides detailed instructions on how to use the dashboard and reporting functionality within the Oracle® Adaptive Risk Manager Online. The Oracle® Adaptive Risk Manager Online includes a dashboard that provides a high-level overview of users and devices that have generated alerts and the alerts themselves, and it contains a comprehensive collection of reports on users, locations, devices, and security alerts.
- The Oracle® Adaptive Risk Manager™ Customer Care Administration Guide, which provides information on creating new customer cases and administering them.

Introduction

Adaptive Risk Manager Offline is an offline fraud analysis tool that can be used

- As a stand alone security tool to analyze, detect and alert high risk transactions
- In conjunction with Adaptive Risk Manager Online as a supplemental offline analysis tool
- As a way to visualize rules against real customer data without impacting customers in real-time environment

The purpose of this manual is to guide you through the installation and configuration of Adaptive Risk Manager Offline.

Prerequisites and Dependencies

The prerequisites and dependencies for the installation and configuration of Adaptive Risk Manager Offline are summarized in the table below.

| Prerequisites and Dependencies | Descriptions |
|---|---|
| Java | Java Runtime Environment, version 1.5 or higher, needs to be installed. |
| | Environment variables JAVA_HOME and PATH must be set appropriately. |
| Adaptive Risk Manager Offline database | Adaptive Risk Manager Offline has its own database that has an identical schema to that of the Adaptive Risk Manager Online version. Customer login and/or transaction data must be loaded into the Adaptive Risk Manager Offline database, and Adaptive Risk Manager Offline uses this database to perform risk analysis. For the Adaptive Risk Manager Offline database, follow the instructions in the Oracle Adaptive Access Manager Database Installation Guide (Oracle) or the Oracle Adaptive Access Manager Database Installation Guide for SQL Server for creating the database schema and populating it with the default values. |
| File Write Permission | The Adaptive Risk Manager Offline Server writes activity logs to rolling log files. The verbosity of the logs can optionally be configured using standard log4j.xml configuration. For more information on setting up logging, refer to the "Setting Up Logging" section of this manual. |
| Port Configuration | Ensure that the port used by the Adaptive Risk Manager Offline Application server is accessible to the client machine. You are allowed to configure the port number. |

Requirements

RAM

1.5 GB Minimum

Database

- Oracle 9i or later
- MySQL 2005

Application Server

- Oracle Application Server
- WebLogic
- WebSphere
- Tomcat
- Pramati
- MSSQL server

Software

- JDK 1.5 or later
- JDBC driver

Operating System

- Redhat Linux
- Windows XP or later
- Solaris
- HP-UX
- AIX

Performance

Note: You must restart the machine in order for some of the settings to take effect.

JVM Settings

The Minimum Memory setting is 1024 MB.

For high volume deployments, please perform load testing to come up with ideal settings.

Creating Adaptive Risk Manager Offline Database

Adaptive Risk Manager Offline has its own database that has an identical schema to that of the Adaptive Risk Manager Online version. Customer login and/or transaction data must be loaded into the Adaptive Risk Manager Offline database, and Adaptive Risk Manager Offline uses this database to perform risk analysis.

For the Adaptive Risk Manager Offline database, follow the instructions in the Oracle Adaptive Access Manager Database Installation Guide for Oracle or the Oracle Adaptive Access Manager Database Installation Guide for SQL Server for creating the database schema and populating it with the default values.

Loading IP Location Data

For information on importing the IP location data into the Adaptive Risk Manager Offline database, refer to the Oracle® Adaptive Access Manager IP Location Data Import Guide.

The location data is used by the risk policies framework to determine the risk of fraud associated with a given IP address.

Note: The process of loading the information may take around 5 hours.

Deploying Adaptive Risk Manager Offline

This section provides instructions for the deployment and installation of Adaptive Risk Manager Offline into the following application servers.

- Oracle Application Server
- WebLogic
- Tomcat
- Websphere 6.1

Note: Because of licensing, the JDBC jar and other jars to support various functionalities of Adaptive Risk Manager Offline need to be downloaded separately. For example, the sqljdbc.jar (for Microsoft SQL Server Database) must be downloaded.

Oracle Application Server

Installing Adaptive Risk Manager Online into Oracle Application Server

- 1. Install the Oracle Application Server. For detailed information about how to install the Oracle Application server, refer to the *Oracle Application Server Installation Guide*.
- 2. Log in to the **Oracle Application Server Console** using an Admin user.

For example, oc4jadmin/<password>.

3. Log in to the Enterprise Application Server Control.

| ORACLE Enterprise Manager 10g |
|--|
| Login |
| ■ User Name oc4jadmin ■ Password Login |
| Copyright © 1996, 2007, Oracle. All rights reserved. Oracle, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective |
| Unauthorized access is strictly prohibited. |
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| Concert Concer |

4. When the **Cluster Topology** page appears, click the **home** link to navigate to the OC4J page.

| ODACI Ci Estamin Managa 10 a | | | | | | | | | ~ |
|---|--|---|---------|----------------------|------------------------------------|---------|------------|--------------------------------|--------|
| Application Server Control | | | | | | | | Setup Logs Help | Logout |
| | | | | | | | | | |
| Cluster Topology | | | | | | | | | |
| | | | | | Page Refreshed Dec 13 | 3, 2007 | 12:31:30 P | PM PST • View Data Manual Refr | resh 🎽 |
| Overview | | | | | | | | | |
| OC4J Instances 1 HTTP Server Insta | nces 1 | | | | | | | | |
| | | | | | | | | | |
| Members | | | | | | | | | |
| View By Application Servers | | | | | | | | | |
| Salast All Salast Nana Exmand All Call | anna All | | | | | | | | |
| | <u>apac.//ii</u> | | | | | | | | |
| φ | | | | | | CDII | Memory | | |
| Select | Focus | Name | Status | Туре | Host | (%) | (MB) | | |
| | | All Application Servers | | | | | | | |
| | \$ | oaaminst.localhost.localdomain | | Applicatio Server | ⁿ localhost.localdomain | | | | |
| | Φ | ▶ <u>home</u> | Û | OC4J | | 9.52 | 129.98 | | |
| | | HTTP_Server | Û | Oracle | | 1.49 | 79.97 | | |
| | | | | Server | | | | | |
| Indicates the active ASControl instance | ŧ. | | | | | | | | |
| 𝗭 TIP If a parent topology member is selec | ted all contained members are implicitly s | selected. | | | | | | | |
| Groups | | | | | | | | | |
| A Group is a loosely synchronized group of | f like-named OC4J instances. Configuration | n operations can be executed simultaned | usly on | all OC4J ir | stances in the Group. | | | | |
| (Start) (Stop) | | | | | | | | | |
| Select Name 🛆 | | Status Application Server | | | | | | | |
| Interpretation in the second secon | | ☆ oaaminst.localhost.local | domain | | | | | | |
| Related Links | | | | | | | | | |
| Cluster MBean Browser | | | | | | | | | |
| | | | | | | | | | |
| Copyright © 1996, 2005, Oracle. All rights reserved. | | Setup Logs Help D | gout | | | | | | |
| | | | | | | | | | |
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| Done | | | | | | | 9 | Local intranet 🔍 🔍 | 100% • |
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5. On the **OC4J home** page, click the **Application** tab to display the **Application** page.

| | | - |
|--|---|---|
| ORACLE Enterprise Manager 10g | Setup Loas Heb Loaout | ^ |
| Cluster Topology > Application Server: oaaminst localhost localdomain > | | - |
| 0043. 110116 | Page Refreshed Dec 12, 2007 12:22:22 DM DCT + View Date Manual Refresh | 4 |
| Home Applications Web Services Performance Administration | Page Reliesned Dec 15, 2007 12:32:25 PM P31 • View Data Manual Reliesn | ~ |
| | | _ |
| General | Response and Load | |
| Status Up Status Up Statu Time Dec 13, 2007 12:28:11 PM PST Oracle Home: Mome/bharosa/product/0.1.3/OracleAS_3 Host localhost.localdomain Notifications 0 | 0.8 0.4 0.2 0.15 0.00 103211.00.21.402 PM:20 Dec 13, 2007 Pequest Processin Time (seconds) Request Processin Time (seconds) | |
| Home Applications Web Services Performance Administration | | |
| Copyright © 1996, 2005, Oracle: All rights reserved. | Setup Logs Help Logout | _ |
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6. Then, click the **Deploy** button.

| Services Performance and application components (E v <t< th=""><th>Administration EJB Modules, V Statu 0 0 0 0</th><th>1 WAR Modules, Resource Ac ss Start Time Dec 13, 2007 12:28:18 PM PST De 13, 2007 12:28:18 PM PST De 13, 2007 12:28:18 PM PST</th><th>lapter Modules) dep Active Requests</th><th>Processing Time (seconds) 0.00</th><th>Active EJB Methods F 0 0</th><th>Application befined MBeans</th><th></th><th></th></t<> | Administration EJB Modules, V Statu 0 0 0 0 | 1 WAR Modules, Resource Ac ss Start Time Dec 13, 2007 12:28:18 PM PST De 13, 2007 12:28:18 PM PST De 13, 2007 12:28:18 PM PST | lapter Modules) dep Active Requests | Processing Time (seconds) 0.00 | Active EJB Methods F 0 0 | Application befined MBeans | | |
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7. On the Select Archive page, enter the war file and its location. Then, click Next.

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| | • <u> </u> |
| | Select Archive Application Attributes Deployment Settings |
| Deploy: Select Archive | |
| | Cancel Step 1 of 3 (Next) |
| Archive | |
| The following types of archives can be dep | loyed: J2EE application (EAR files), Web Modules (WAR files), EJB Modules (EJB JAR files) and Resource Adapter Modules (RAR files). |
| Archive is present on local host. Uploa | d the archive to the server where Application Server Control is running. |
| Archive Location | Browse |
| Archive is already present on the serve | or where Application Server Control is running. |
| Location on Server | |
| Th | le location on server must be the absolute path or the relative path from iZee/home |
| Deployment Plan | |
| The deployment plan is an XML file that co | ontains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment process. Later in the deployment process |
| you can optionally edit the deployment pla | an and save it for a future deployment of this application. |
| Automatically create a new deployment | nt plan. |
| The deployment plan settings will be based on | s OC4J defaults and information contained in the archive |
| O Deployment plan is present on local ho | sst. Upload the deployment plan to the server where Application Server Control is running. |
| Plan Location | Browse |
| O Deployment plan is already present on | server where Application Server Control is running. |
| Location on Server | |
| Th | e location on server must be the absolute path or the relative path from generations |
| | Cancel) Step 1 of 3 Negt |
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8. On the **Application Attributes** page, enter the application name and context root. Then click **Next**.

For example, the value for Application Name and Context Root could be oaam.

| | | | | Help Logo | ut |
|--|------------------------------|--|---|-----------------------------|---------------|
| | 0 | 0 | | | _ |
| | | chive Application Attributes Deployment Setting: | S | | |
| Deploy: Application Attributes | | | | | |
| Archive Type Web Module (WAR file) Archive Location /home/bharosa/faulo.wa Deployment Plan Creating a new plan | ar | | | (Cancel) (Back Step 2 of 3 | <u>4egt</u>) |
| Application Name | | | | | |
| Parent Application | default 🛩 | | | | |
| Bind Web Module to Site | e default-web-site 💙 | | | | |
| Context Root | Web Module | Context Root | | | |
| | Oracle Adaptive Risk Manager | fauio | | | |
| copyright © 1996, 2005, Oracle. All rights reserved. | | Help Logout | | (Cancel) (Bark) Step 2 of 3 | Next |
| | | | | | |
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9. On **Deployment Settings** page, click the **Go to Task** link next to **Configure Class Loading** to modify application class loading configuration.

| Application Server Control | | | Help Logaut |
|---|-------------------|---|---|
| | | Select Archive Application Attributes Deployment | it Settings |
| Deploy: Deployment Settings | | | |
| Archive Type Web Module (WAR file) Archive Location /home/bharosa/faulo.war Deployment Plan Creating a new plan | | Application Parent Appl Bind Web Module Contex | Name fauio ication default to Site defaultweb-site d Root fauio |
| Deployment Tasks | | | |
| The table below provides a set of common deploy | ment tasks you m | ight want to perform for this application. Only those tasks that apply | to the current application are enabled. |
| Task Name | Go To Task | Description | |
| Map Environment References | Ø | Map any environment references in your application (for example, | data sources) to physical entities currently present on the operational environment. |
| Select Security Provider | 1 | A security provider acts as the source for available users and gro | ups when mapping security roles. |
| Map Security Roles | Ø | Map any security roles exposed by your application to existing u for this application. | sers and groups. The list of users and groups is obtained from the security provider you selected |
| Configure EJBs | 1 | Configure the Enterprise JavaBeans in your application. | |
| Configure Clustering | Ø | Configure clustering of your application | |
| Configure Class Loading | 1 | Manipulate the classpath of your application. | |
| | - | | |
| Advanced Deployment Plan Editing | | | (Edit Depleyment Dep |
| Save Deployment Plan | aepioyment optic | ns. | Eur Deployment Plan |
| After you make changes, you can save the deploy deployment plan to redeploy this application later | yment plan to you | local disk. You can then use the saved | (Save Deployment Plan) |
| | | | Cancel Back Step 3 of 3 Deploy |
| | | Help Logout | |
| Copyright © 1996, 2005, Oracle. All rights reserved. | | | |
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10. When the **Configure Class Loading** page is displayed, check **Search Local Classes First** under **Configure Web Module Class Loaders**; then, click **OK**..

| DRACLE Enterprise Manager 10g | | | | | | Help Logout |
|---|--|---|-----------------------------------|---------------------------|---|------------------------------|
| | Select Archive | Application Attributes Deployment Settings | | | | |
| eployment Settings: Configure Class | Loading | | | | | |
| Archive Type Web Module (WAR file) Archive Location /home/bharosa/fauio.war Deployment Plan Creating a new plan | r | Application Name fau Parent Application def Bind Web Module to Site def Context Root fau | io ault ault-web-site io | | | Cancel OK |
| Import Shared Libraries | | | | | | |
| The following table lists the shared libraries inst | alled in this OC4J instance. Select Import to declare | our application's dependency on a shared libra | ary. Optionally | specify a minimum or r | maximum version to import. | |
| Inherit parent application's shared library imp TIP When checked, future changes to the pa | oorts rent application's shared library imports will be effective | e to this application. | | | | |
| Shared Library △ | Available Versions | Minimu Use | ım Version To | Maximum Version To Use | O Previous 1-10 of 2 Imported By Parent Application | 2 <u>v Next 10</u> Import |
| adf.generic.domain | 10.1.3 | | | | | |
| adf.oracle.domain | 10.1.3 | | | | ¥ | V |
| global.libraries | 1.0 | | | | ¥ | V |
| global.tag.libraries | 1.0 | | | | ¥ | V |
| global.wsm.libraries | 1.0 | | | | | |
| oracle.cache | 10.1.3 | | | | ¥ | v |
| oracle.dms | 3.0 | | | | × | V |
| oracle.expression-evaluator | 10.1.3 | | | | | |
| oracle.gdk | 10.1.0_2 | | | | ¥ | V |
| oracle.http.client | 10.1.3 | | | | | |
| | | | | | Previous 1-10 of 2 | 2 🔺 <u>Next 10</u> 🏾 |
| Configure Application Librarian | | | | | | |
| Add additional archives or directories to this app | lication's classpath. Specify a path relative to the roo | t of the EAR, or an absolute path on the target | server. | | | |
| Path | | · · | | Delete | | |
| No application libraries have been configured. (Add Another Row) | | | | | | |
| Configure Web Module Class Loaders | | | | | en | |

11. Now, click the **Deploy** button.

| OBACL E Enternrise Manager 10g | | | | 2 | | | | |
|--|---|--|--|-----|--|--|--|--|
| Application Server Control | | | Help Logout | | | | | |
| | Select Archive Application Attitudes Deployment Settings | | | | | | | |
| (i) Information | | | | | | | | |
| Deployment plan has been updated succes | ssfully. | | | _ | | | | |
| Deploy: Deployment Settings | | | | _ | | | | |
| Archive Type Web Module (WAR file Archive Location /home/bharosa/faulo.v Deployment Plan Creating a new plan | :) var | Application Name faulo Parent Application default Bind Web Mobile to Ste defaultweb-site Context Root faulo | Cancel Back Step 3 of 3 Dept | loy | | | | |
| Deployment Tasks | | | | | | | | |
| The table below provides a set of common de | ployment tasks you m | pht want to perform for this application. Only those tasks that apply to the current application are enabled. | | | | | | |
| Task Name | Go To Task | Description | | | | | | |
| Map Environment References | Ø | Map any environment references in your application (for example, data sources) to physical entities currently pr | esent on the operational environment. | | | | | |
| Select Security Provider | A security provider acts as the source for available users and groups when mapping security roles. | | | | | | | |
| Map Security Roles | Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application. | | | | | | | |
| Configure EJBs | Ø | Configure the Enterprise JavaBeans in your application. | | | | | | |
| Configure Clustering | | Configure clustering of your application. | | | | | | |
| Configure Class Loading | | Manipulate the classpath of your application. | | | | | | |
| Advanced Deployment Plan Editing | | | | | | | | |
| Click Edit Deployment Plan to set more adva | nced deployment optio | IS. Edit Deployment I | Plan) | | | | | |
| Save Deployment Plan | | | — | | | | | |
| After you make changes, you can save the d deployment plan to redeploy this application | eployment plan to your later. | local disk. You can then use the saved (Save Deployment | Plan) | | | | | |
| (Cancel) (Back) Step 3 of 3 (Der Help Logout | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | University Sciences S | 6 • | | | | |

12. Click OK.

| | | | | | Tielp Logodi |
|---|--|--|---------------------------|-----------------------------------|---------------------|
| | Select Archive Annli | cation Attributes Deployment Settings | | | |
| loyment Settings: Configure Class | Loading | | | | |
| Archive Type Web Module (WAR file) Archive Location /home/bharosa/faulo.wa Deployment Plan Creating a new plan | r | Application Name fauio Parent Application default Bind Web Module to Site default-web-site Context Root fauio | | | Cancel) (|
| nport Shared Libraries | | | | | |
| ne following table lists the shared libraries inst | talled in this OC4J instance. Select Import to declare your | application's dependency on a shared library. Optionally | specify a minimum or r | maximum version to import. | |
| TIP When checked, future changes to the pa | ports arent application's shared library imports will be effective to | this application. | | | |
| | | | | Previous 1-10 of 2 | 22 💉 <u>Next 10</u> |
| ihared Library 🛆 | Available Versions | Minimum Version To Use | Maximum Version To Use | Imported By Parent Application | Import |
| ff.generic.domain | 10.1.3 | | | | |
| lf oracle domain | 10.1.3 | | | ~ | |
| | | | | | |
| obal.libraries | 1.0 | | | ✓ | |
| obal.libraries obal.tag.libraries | 1.0 | | | ¥ | |
| obal. libraries obal. tag. libraries obal. wsm. libraries | 1.0 1.0 1.0 | | | ¥ ¥ | |
| obal.libraries obal.tag.libraries obal.wsm.libraries acle.cache | 1.0 1.0 1.0 10.1.3 | | | | |
| obal libraries obal tag libraries obal wsm.libraries acle cache acle dms | 10 1.0 1.0 10.1.3 3.0 | | | > > - | |
| obal libraries obal tag libraries obal wsm. libraries acle cache acle dms acle expression-evaluator | 1.0 1.0 1.0 10.1.3 3.0 10.1.3 | | | * * * | |
| obal libraries obal tag libraries obal wsm.libraries acle cache acle dms acle expression-evaluator acle gdk | 1.0 1.0 1.0 10.1.3 3.0 10.1.3 10.1.0_2 | | | | |
| obal.libraries obal.wsm.libraries obal.wsm.libraries acle.cache acle.dms acle expression-evaluator acle gdk acle http.client | 1.0 1.0 1.0 10.1.3 3.0 10.1.3 10.1.0_2 10.1.3 | | | > > > > > | |

The confirmation screen appears.

| Confirmation Example Example Example Example Example Example E | Application Server Control | Help Logout | < |
|---|--|-------------|---|
| The Application "faulo" has been successfully deployed. | E. Confirmation | Return | |
| Progress Messages The 13 2007 1243 39 PMI Opticing fauio dat The 13 2007 1243 39 PMI Opticing fauio war The 13 2007 1243 39 PMI Opticing fauio war The 13 2007 1243 39 PMI Opticing fauio war The 13 2007 1243 39 PMI Stating application : fauio The 13 2007 1243 39 PMI Stating application : fauio The 13 2007 1243 39 PMI Initiatize / Benchanner The 13 2007 1243 49 PMI Initiatize / Benchanner The 13 2007 1244 39 PMI Initiatize fauio ends The 13 2007 1244 39 PMI Initiatize gander ends The 13 2007 1244 39 PMI Initiatize gander ends The 13 2007 1244 39 PMI Initiatize gander ends The 13 2007 1248 19 PMI Initiatize gander ends The 13 2007 1248 19 PMI Initiatize gander ends The 13 2007 1248 19 PMI Initiatize gander ends The 14 19 PMI Bench web-application(1) to site default-web-site ends The 19 1969 2005 Oracle. At rights reserved. | The Application "faulo" has been successfully deployed. | | |
| Copyright © 1996, 2005, Oracle. All rights reserved. | Progress Messages Ues 13, 2007 124 435 PM) Unpacking faulo ear Dec 13, 2007 124 435 PM) Dec unpacking faulo ear Dec 13, 2007 124 435 PM) Dec unpacking faulo ear Dec 13, 2007 124 435 PM) Dec unpacking faulo ear Dec 13, 2007 124 435 PM) Dec unpacking faulo ear Dec 13, 2007 124 435 PM, Dec unpacking faulo ear Dec 13, 2007 124 435 PM, Dec unpacking faulo ear Dec 13, 2007 124 435 PM, Dec unpacking faulo ear Dec 13, 2007 124 435 PM, Dec unpacking faulo ear Dec 13, 2007 124 435 PM, Dec unpacking faulo ear Dec 13, 2007 124 435 PM, Dec unpacking faulo ear Dec 13, 2007 124 435 PM, Dec unpacking faulo ear Dec 13, 2007 124 435 PM, Dec unpacking faulo ear Dec 13, 2007 124 435 PM, Initializing GastLoader(s) Dec 13, 2007 124 435 PM, Initializing GastLoader(s) Dec 13, 2007 124 435 PM, Initialize faulo earbornet(r) Dec 13, 2007 124 435 PM, Initialize faulo earbornet Dec 14, 2007 124 435 PM, Initialize faul | | |
| | Copyright © 1996, 2005, Oracle: All rights reserved. | Return | |
| | | | 2 |

 Now, navigate to OAAM deployment webapp directory to configure the JDBC url (sessions.xml) and logging (log4j.xml).
 For example : \$OC4J_HOME/J2EE/home/applications/oaam/oaam/WEB-INF/classes.

Once configuration is completed please restart your Oracle Application Server using the "opmnctl" command

Check your Web application using

http://<hostname>:<port>/<webappname>

For Example : http://<local host>:7777/oaam

Creating Groups and Adding Users

1. Enable security by commenting out the following lines from bharosa_server.properties:

#vcrypt.web.security.access.flag=false
#security.check.flag = false

2. Comment out the following section from **web.xml** to enable security contraints:

-->

- 3. Restart the OC4J_OAAM instance.
- 4. Go to Application: OARM page.

| | | | | Page Refreshed Nov 1, 2007 7:39:57 PM |
|--|---|--------------------------------|------------------------------------|---------------------------------------|
| rinci | ipals or Monogor Nome - IAZNIIcorManagor | | | |
| Use | er Manager Class oracle.security.jazi | n.oc4j.JAZNUserManager | | |
| Gro | ups | | | |
| | | | | Add Group |
| Se | lect Name | | | |
| | No groups found using the specified | User Manager | | |
| | | | | |
| Use | ers | | | |
| Use | ers | | | Add User |
| Use Se | ers lect Name | | Group Membershi | (Add User) |
| Use Se | lect Name No users found using the specified | User Manager | Group Membershi | (Add User) ps |
| Se | rs lect Name No users found using the specified rity Roles | User Manager | Group Membershi | (Add User) ps |
| Use Se ecui | rs lect Name No users found using the specified rity Roles a Role To Principals | User Manager | Group Membershi | (Add User) ps |
| Use Se ecur <u>Mar</u> elect | ers lect Name No users found using the specified rity Roles a Role To Principals (Name | User Manager Assigned Users | Group Membershi Assigned Groups | (Add User) ps |
| Use Se ecur Mar elect | ers lect Name No users found using the specified rity Roles o Role To Principals (Mame web CSR | User Manager Assigned Users | Group Membershi Assigned Groups | (Add User) ps |
| Use Se ecur Mar elect | Ilect Name No users found using the specified rity Roles o Role To Principals (Name web_CSR web_RuleAdministrators | User Manager Assigned Users | Group Membershi Assigned Groups | (Add User) ps |
| Use Se ecur elect O O | Ilect Name No users found using the specified rity Roles o Role To Principals t Name web_CSR web_RuleAdministrators web_CSRManager | User Manager Assigned Users | Group Membershi Assigned Groups | Add User) ps |
| Use Se ecur Mar elect O O O | Ilect Name No users found using the specified rity Roles o Role To Principals t Name web_CSR web_RuleAdministrators web_CSRManager web Auditors | User Manager Assigned Users | Group Membershi Assigned Groups | Add User) ps |

- 5. Add the **Web_RuleAdministrators** group and click OK.
- 6. Similarly, create the **web_CSRManager**, **web_CSR**, and **web_Auditors** groups.

| ORACLE Enterprise Manager 10g Application Server Control | <u>Logs</u> | <u>Topology</u> | Preferences | Help | |
|---|-------------|-----------------|-------------------|-------------|--|
| Application Server: OTHER.www.otherdomain.com > OC4J: OC4J_OAAM > Application: OARM > Security > | | | | | |
| Security: Add Group | | | | | |
| Name web_RuleAdministrators | | | | | |
| Description UAAM web RuleAdministrators ITIP Remote EJB clients require the RMI login permission in order to be able to access objects on the OC4J server. | | | | | |
| Grant the RMI Login Permission. | | | | | |
| Copyright @ 1996, 2006, Oracle. All rights reserved. About Oracle Enterprise Manager 10g Application Server Control | | | (<u>C</u> ancel) | <u>O</u> K) | |

- 7. Add the user by entering the name (user name), description, and password .
- 8. Select the group that this user belongs to and click OK. In the example below, RuleAdmin1 belongs to the web-ruleadministrators group.
- 9. Similarly, create other users

| - | | |
|-------------------------|--|--------------------------------|
| ORACLE Enterpr | ise Manager 10g | |
| Application Server C | ontrol | Logs Topology Preferences Help |
| Application Server: OTH | ER.www.otherdomain.com > <u>OC4J: OC4J_OAAM</u> > <u>Application: OARM</u> > <u>Security</u> > | |
| Security: Add Us | er | |
| General | | |
| <u>N</u> ame | ruleAdmin1 | |
| <u>D</u> escription | OAAM Rule Administrator User | |
| <u>P</u> assword | ••••• | |
| Confirm Password | ••••• | |
| | | |
| o | | |
| Group Members | nips | |
| Select All Select Nor | <u>e</u> | |
| Select Group Name | | |
| 🔲 jazn.com/web_ | Auditors | |
| 🔲 jazn.com/web_ | CSR | |
| 🔲 jazn.com/web_ | CSRManager | |
| jazn.com/web_ | RuleAdministrators | |
| | | Cancel OK |
| | Logs Topology Preferences Help | |

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10. Create a snapshot of the users and groups that were created.

11. Press the Map Role To Principals" button, and from the application, map the groups to their respective roles.

| in sin sta | | | Page Refres |
|--|---------------------------------|---------------------------------|---------------------|
| User Manager Name JAZNUserMan User Manager Class oracle.securit | ager y.jazn.oc4j.JAZNUserMan | ager | |
| Groups | | | Add Group |
| (Remove) | | | (<u>Aud O</u> loup |
| Select Name | | | |
| jazn.com/web_Auditors | | | |
| o jazn.com/web_CSR | | | |
| O jazn.com/web_CSRManager | | | |
| o jazn.com/web_RuleAdministra | itors | | |
| Users | | | (Add User |
| Select Name | Group M | emberships | |
| jazn.com/auditor1 | jazn.com/ | web_Auditors | |
| O jazn.com/csr1 | jazn.com/ | web_CSR | |
| O jazn.com/csrm1 | jazn.com/ | web_CSRManager | |
| jazn.com/ruleAdmin1 | jazn.com | web_RuleAdministrators | |
| curity Roles | | | |
| Map Role To Principals | | | |
| lect Name | Assigned Users | Assigned Groups | |
| web_CSR | | jazn.com/web_CSR | |
| web_RuleAdministrators | | jazn.com/web_RuleAdministrators | |
| O LULE CODMISSION | | Construction CODM- | |

12. (Optional) Restart the application or Instance and access the application at http://otherdomain.com:8778/oarm, logging in as the ruleAdmin1 user.

| Connect to www.c | otherdomain.com | ? × |
|--------------------|--------------------------|---------|
| | | G P |
| OARM | | |
| <u>U</u> ser name: | 🙎 ruleAdmin1 | • |
| Password: | ••••• | |
| | 🔲 <u>R</u> emember my pa | assword |
| | ОК | Cancel |

13. (Optional) Also try accessing the application and logging in as the csr user.

| Connect to www.ot | herdomain.com ?X |
|-------------------|----------------------|
| | G |
| OARM | |
| User name: | 🔮 csr1 💽 |
| Password: | ••••• |
| | Remember my password |
| | OK Cancel |

WebLogic

For more detailed information on setting up WebLogic, refer to the BEA Web site.

Creating Groups and Adding Users to Groups from the WebLogic Administration Console To create groups and add users

> 1. Log in to the WebLogic Server Administration Console by accessing http://hostname:port/console as a WebLogic Administrator.

The hostname is the DNS name or IP address of the Administration Server.

The port is the listen port on which the Administration Server is listening for requests (port 7001 by default).

In the example below, weblogic was used to log in.

| (bea | WEBLOGIC SERVE | R LE | | |
|--|----------------|------------|--|--|
| Log in to work with the WebLogic Server domain | | | | |
| | Username: | weblogic | | |
| | Password: | Joloblobok | | |
| | | Log In | | |

2. In the left pane, click the Lock & Edit button under the Change Center section.

| e Center | Welcome, weblogic | Connected to: wl_serv | rer 👘 🟠 Home | Log Out | Preferences | Help | AskBE/ |
|--|--|---|--|---------|-------------|------|--------|
| changes and restarts | Home | | | | | | |
| the Lock & Edit button to fy, add or delete items in | Domain | | | | | | |
| lomain. Lock & Edit | Information and Resources Helpful Tools | General Information | | | | | |
| Release Configuration | Configure applications Recent Task Status | Common Administration Task Descrip Set your console preferences Read the documentation | tions | | | | |
| vices rvices curity Realms reroperability agnostics | Domain Configurations Domain © Domain | Services Messaging | Interoperability | | | | |
| the Change Center / pending changes ase the configuration lock nge Console preferences titor servers | Environment Servers Clusters Virtual Hosts | > JMS Servers > Store-and-Forward Agents > JMS Modules > Bridges # DBbC > Data Sources | Joit Connection Diagnostics Log Files Diagnostic Modu | roois | | | |
| m Status | Migratable Targets Machines Work Managers | > Multi Data Sources > Data Source Factories ■ Persistent Stores | Diagnostic Imag Archives Context | es | | | |

| WEBLOGIC SERV | ER SOLE | | | | The The New York Tree | - | - West Test Vous IV | |
|---|---|--|-------------------------------------|---------------|--|----------|---------------------|---|
| Change Center | Welcome, weblogic | Connected to: wl_s | erver 🐘 🟠 Home | Log Out | Preferences | Help | AskBEA | |
| View changes and restarts | Home > csr1 > Users and Groups > csr2 : | > Users and Groups > csrm1 > Users and Groups > | ruleAdmin1 > Users and | Groups > audi | tor1 > Users and | d Groups | | |
| Click the Lock & Edit button to modify, add or delete items in | Domain | | | | | | | |
| this domain. | Information and Resources Helpful Tools | General Information | | | | | | |
| Release Configuration | Configure applications Recent Task Status | Common Administration Task Des Set your console preferences | criptions | | | | | |
| Domain Structure | | > Read the documentation | | | 1. | | | |
| E-Services →Security Realms E-Interoperability E-Diagnostics | Domain Configurations Domain | Services | Interoperability WTC Servers | • | | | | |
| How do I | | > JMS Servers | Jolt Connection | Pools | | | | |
| Use the Change Center View pending changes Release the configuration lock | Environment | > Store-and-Forward Agents | Diagnostics | | | | | |
| Change Console preferences Monitor servers | Virtual Hosts Migratable Targets | DBC Data Sources Multi Data Sources | Diagnostic Modu Diagnostic Imag | ules jes | | | | ~ |
| 🖸 Find: extracted 😽 🦉 | yext 🎓 Previous 🔄 Highlight all 📃 Match ca | ise | _ | | | | | 2 |
| Done | | | | | | | | |

3. From the **Domain Structure** section in left pane, select **Security Realms**.

4. In **Summary of Security Realms** page, select the check box next to the realm you are using.

| WEBLOGIC SERVE | ER | The Star Day Day Tao Tao Tao Day Day Day Tao Tao | 11-17-17-17-17-17-17-17-17-17-17-17-17-1 | Van Van Van Van Van | -1717171717 | | a Directo Conce Directo Directo | ^ |
|--|---|---|--|------------------------------|------------------------------------|-----------------------|---------------------------------|---|
| Change Center | Welcome, weblogic | Connected to: wl_server | 🟠 Home | Log Out | Preferences | Help | AskBEA | |
| View changes and restarts | Home > Summary of Security Realms | | | | | | | |
| No pending changes exist. Click the Release Configuration button to allow others to edit the domain. | Summary of Security Realms A security realm is a container for the mechanisms- used to protect WebLogic resources. You can have r default (active) realm. | -including users, groups, security r multiple security realms in a WebLo | roles, security ogic Server do | policies, ar imain, but c | d security prov only one can be | iderstha set as th | at are e | |
| Release Configuration | This Security Realms page lists each security realm explore and configure that realm. | that has been configured in this W | /ebLogic Serve | er domain. (| Click the name | of the rea | alm to | |
| Domain Structure | | | | | | | | 1 |
| wLserver B Environment -Deployments B-Services -Security Realms B-Interoperability B-Diagnostics | Customize this table Realms New Delete Name | Default Realm | | Showin | g1-1of1 Pr | evious N | Jext | |
| How do I 🗊 | myrealm | true | | | | | | |
| Configure new security realms Delete security realms Change the default security realm | New Delete | | | Showin | g1-1of1 Pr | revious M | Vext | |
| System Status Health of Running Servers | | | | | | | | |
| Failed (0) | | | | | | | | ~ |
| < | | | | | | |) | |
| Done | | | | | | | | |

- 5. In the **Summary of Security Realms** page, click the realm you are using. For example, **myrealm**.
- 6. Click the Users and Groups tab.
- 7. To display the **Groups** page, click the **Groups** subtab. If you encounter an error, you may have to restart the WebLogic server.
- 8. Then, click the **New** button to create each of the four groups listed below.
 - CSRManagerGroup
 - CSRGroup
 - RuleAdministratorsGroup
 - AuditorsGroup

| Click the Lock & Edit button to modify, add or delete items in | Settings | for admin | | | | | | | ^ |
|---|----------------|----------------------------|--|---|----------------------|---------------|-------------------------|------|---|
| this domain. | Configur | ation Users and Groups | Roles and Policies | Credential Mappings | Providers | Migration | | | |
| Release Configuration | Users | Groups | hout orch aroun that | t has been configured i | n this cost in | ity realm | | — r | |
| Domain Structure | iiis p | age displays into mation a | ibout each group that | chas been conliguieu i | in uns secui | ity realm. | | | |
| wl_server Environment Deployments Cervices Services | € Cu Grou | stomize this table | | | | | | | |
| ⊡Interoperability | Ner | Delete | | | | Showing 1 - 1 | 1 of 11 Previous Next | | |
| t±Diagnostics | | Name | Description 🚕 | | | | Provider | | |
| How do I | | Administrators | Administrators can servers. | DefaultAuthenticator | | | | | |
| Manage users and groups | | admin | admin_group | | DefaultAuthenticator | | = | | |
| Create groups | | AppTesters | AppTesters group. | AppTesters group. | | | | | |
| Mourry groups Delete groups | | AuditorsGroup | Bharosa FA Auditors | Bharosa FA AuditorsGroup DefaultA | | | | | |
| - conce greate | | CSRGroup | Bharosa FA CSRGro | up | | | DefaultAuthenticator | • | |
| System Status 🛛 🔄 | | CSRManagerGroup | Bharosa FA CSRMar | nagerGroup | | | DefaultAuthenticator | | |
| Health of Running Servers | | RuleAdministratorsGroup | Bharosa FA RuleAdr | ministratorsGroup | | | DefaultAuthenticator | | |
| Eailed (0) | | cust | cust_group | | | | DefaultAuthenticator | | |
| Critical (0) | | Deployers | Deployers can view | Deployers can view all resource attributes and deploy applications. | | | | | |
| Overloaded (0) | | Monitors | Monitors can view and modify all resource attributes and perform operations not restricted by roles. DefaultAuthent | | | | | | |
| Warn (0) | Ner | Delete | | | | Showing 1 - 1 | 1 of 11 Previous Next | | ~ |
| | A - - - | | | | | | | > | |
| Find: extracted | Previous | Highlight all Match cas | ie . | | | | | | _ |
| Done | | | | | | | | | |

- 9. **Optional:** click the **Users** subtab. Then, click the **New** button for each of the following four users you want to create.
 - csrm1
 - csr
 - ruleAdmin1
 - auditor1

| No pending changes exist. Click the Release Configuration button to allow others to edit the | Settings | s for my | realm | | | | | ^ |
|--|---------------------|-----------------------|--------------------------------------|------------------------|------------------------|----------------|----------------------------------|-------------|
| domain. | Configu | ration (| Users and Groups | Roles and Policies | Credential Mappings | Providers | Migration | |
| Lock & Edit | Users | s Grou | ips | | | | | |
| Domain Structure | This p | oage disp | olays information a | bout each user that | has been configured in | i this securit | y realm. | |
| wl_server ⊡-Environment —Deployments | ₽ Cu User | istomize 's | this table | | | | | = |
| ervices Security Realms ⊡Interoperability | Ne | D | elete | | | Sho | owing 1 - 5 of 5 Previous Next | |
| È⊡Diagnostics | | Name | 🗟 Desc | ription | | | Provider | |
| How do I | | auditor | 1 Bhard | isa FA Audiotor One | | ſ | DefaultAuthenticator | |
| Manage users and groups | | csr1 | Bharo | isa FA CSR | | (| DefaultAuthenticator | |
| Create users | | csrm1 | Bharo | isa FA CSR Manager | | [| DefaultAuthenticator | |
| Modify users | | ruleAdr | min1 Bhard | isa FA Rule Admin | | [| DefaultAuthenticator | |
| Delete users | | weblog | ic This u | user is the default ac | ministrator. | [| DefaultAuthenticator | |
| System Status 💿 | Ne | W D | elete | | | Sho | owing 1 - 5 of 5 Previous Next | |
| Health of Running Servers | | E in the | | | | | | > |
| Done | t <u>w</u> Previous | i Highli | gnt <u>a</u> ll 🔝 Mat <u>c</u> h ca: | ;e | | | | |

- 10. **Optional**: to assign csrm1 to CSRManagerGroup, csr to CSRGroup, ruleAdmin1 to RuleAdministratorsGroup, and auditor1 to AuditorsGroup, follow the steps provided below.
 - a. In the left pane select **Security Realms**.
 - b. On **the Summary of Security Realms** page select the name of the realm (for example, **myrealm**).
 - c. On the Settings for Realm Name page select Users and Groups > Users.
 - d. In the **Users** table click the user you want to add to a group. For example, **csrm1**.
 - e. On the **Settings for <User Name>** page select the **Groups** subtab.
 - f. Select a group or groups from the **Available** list box and move the group or groups over to the **Chosen** list box. For example, **CSRManagerGroup.**
 - e. Click Save.
- 11. Commit the users and groups created by clicking the **Release Configuration** button in the left pane.

For more information about groups, refer to the "Adaptive Risk Manager Offline User Groups Reference" section of this manual.

Deploying the Adaptive Risk Manager Offline Application WAR File

To deploy the Adaptive Risk Manager Offline Application WAR file,

1. Create a directory named oaam_rm_offline.

You must place the actual WAR file in a directory having the name of the application within that directory.

2. Extract the Adaptive Risk Manager Offline WAR file, oaam_rm_offline.war, into the oaam_rm_offline directory created in the previous step.

The WAR file can be extracted using the command, jar –xvf **oaam_rm_offline.war**, with oaam_rm_offline as the present working directory.

3. Edit the **log4j.xml**, **sessions.xml**, and **bharosa_server.properties** files for appropriate values.

They are located in the **oaam_rm_offline/WEB-INF/classes/** directory. Refer to the log4j configuration and Adaptive Risk Manager Offline server properties configuration sections.

- 4. Download the SQL Server 2005 JDBC driver (sqljdbc.jar) and any other thirdparty jars into the **oaam_rm_offline/WEB-INF/lib** directory.
- 5. Next, log in to the WebLogic Server Administration Console by accessing http://hostname:port/console as a WebLogic Administrator.

The hostname is the DNS name or IP address of the Administration Server.

The port is the listen port on which the Administration Server is listening for requests (port 7001 by default).

| <i>i</i> bear | WEBLOGIC SERVE | |
|---------------|----------------|-----------------------------------|
| | Log in to work | < with the WebLogic Server domain |
| | Username: | weblogic |
| | Password: | kolololok |
| | | Log In |

6. In the left pane, click the Lock & Edit button under the Change Center section.

| WEBLOGIC SERV | ER ^{OLE} | | | n Veren Veren Veren Veren | n Vene Presi Vice Presi Pres | n Diment de en Dime | | ^ |
|---|---|--|---------------------------------|---------------------------|------------------------------|---------------------|--------|---|
| Change Center | Welcome, weblogic | Connected to: wl_se | rver 👘 Home | Log Out | Preferences | Help | AskBEA | |
| View changes and restarts | Home | | | | | | | |
| Click the Lock & Edit button to modify, add or delete items in | Domain | | | | | | | |
| this domain. Lock & Edit | Information and Resources Helpful Tools | Information and Resources Helpful Tools General Information | | | | | | |
| Release Configuration | Configure applications Recent Task Status | Common Administration Task Descr Set your console preferences Road the decumentation | iptions | | | | | Ш |
| wl_server Environment Deployments | | | | | | | | |
| Services Security Realms B-Interoperability | Domain Configurations Domain | Services | Interoperability | | | | | |
| B-Diagnostics | Domain | Messaging > IMS Servers | WTC Servers | Pools | | | | |
| Use the Change Center | Environment | > Store-and-Forward Agents > JMS Modules | | | | | | |
| Release the configuration lock Change Console preferences | E Servers | > Bridges # JDBC | Diagnostics Log Files | | | | | |
| Monitor servers | Virtual Hosts Migratable Targets | > Data Sources > Multi Data Sources | Diagnostic Modu Diagnostic Imag | les es | | | | |
| System Status | Machines Work Managers | > Data Source Factories Persistent Stores | Archives Context | | | | | |
| < ↓ Done | Startup And Shutdown Classes | E Path Sorvinos | SNMP Agent | | | | | > |

7. From the **Domain Structure** section in the left pane, select **Deployments**.

| WEBLOGIC SER ADMINISTRATION CON | VER SOLE | stand band an time time time time tand and tank tang | - Marcell - Street Marcell | n Veren Literar Literar Liter | - 12 12 12 12 | - Marine Marine Mari | | ľ |
|---|------------------------------|--|----------------------------|-------------------------------|---------------|----------------------|--------|---|
| Change Center | Welcome, weblogic | Connected to: wl_serv | rer 👘 Home | Log Out | Preferences | Help | AskBEA | |
| View changes and restarts | Home | | | | | | | |
| Click the Lock & Edit button to modify, add or delete items in | Domain | | | | | | | |
| this domain. | Information and Resources | | | | | | | |
| Lock & Edit | Helpful Tools | Helpful Tools General Information | | | | | | |
| Release Configuration | > Configure applications | Common Administration Task Description | tions | | | | | |
| | > Recent Task Status | Set your console preferences | | | | | | |
| Domain Structure | | > Read the documentation | | | | | | |
| wl_server Environment Deployments | | | | | | | | |
| Services | Domain Configurations | | | | | | | |
| Security Realms Interoperability | Domain | Services | Interoperability | | | | | |
| Diagnostics | Domain | Messaging | WTC Servers | | | | | |
| How do I | | > JMS Servers | Jolt Connection I | Pools | | | | L |
| | | > Store-and-Forward Agents | | | | | | |
| Use the change center E View pending changes | Environment | > JMS Modules | | | | | | |
| Release the configuration lock | Servers | > Bridges | Diagnostics | | | | | |
| Change Console preferences | Clusters | JDBC | Log Files | | | | | |
| Monitor servers | Virtual Hosts | > Data Sources | Diagnostic Modu | iles | | | | |
| | Migratable Targets | > Multi Data Sources | Diagnostic Imag | es | | | | |
| System Status | Machines | > Data Source Factories | Archives | | | | | |
| Health of Running Servers | Work Managers | Persistent Stores | Context | | | | | |
| () () | Startup And Shutdown Classes | E Path Service | SNMP Agent | | | | | • |
| Done | | | | | | | | - |

8. From the Summary of Deployments page, select **Control**, and then click **Install**.

| the Release Configuration button | Sur | mma | ry of Deployments | | | | | |
|---|--|--|---|---------------------------------------|---------------------------------|---------------------------------|--|--|
| domain. | Co | ontro | Monitoring | | | | | |
| Lock & Edit Release Configuration | Tł In se | his p Istalle electi | age displays a list of J2EE Applications and standalone application module ad applications and modules can be started, stopped, updated (redeploye ng the application name and using the controls on this page. | es that have bea ed), or deleted t | en installed to from the dom | o this domain. nain by first | | |
| Domain Structure | Т | To install a new application or module for deployment to targets in this domain, click the Install button. | | | | | | |
| wl_server E-Environment - Deployments | C | Deplo | yments | | | | | |
| Security Realms | Install Update Delete Start T Stop T Showing 1 - 1 of 1 Previous | | | | | | | |
| ⊕Interoperability ⊡Diagnostics | [| | Name 🕅 | State | Туре | Deployment Order | | |
| How do I | - | | t gig xmlBeanEar | Active | Enterprise Application | 100 | | |
| Configure an Enterprise application | | | IB 📷 webservicesJwsSimpleEar | Active | EJB | 100 | | |
| Update (redeploy) an Enterprise application | - | | 🗄 📸 webappCachingEar | Active | Enterprise Application | 100 | | |
| Start and stop a deployed Enterprise application Monitor the modules of an | | | The SamplesSearchWebApp | Active | Web Application | 100 | | |
| Enterprise application Deploy EJB modules | | | t (mainWebApp | Active | Web Application | 100 | | |
| Im Im | | | | | | | | |
| Done | | | | | | | | |

9. In the Install Application Assistant pane, locate the **oaam_rm_offline** directory. Since **oaam_rm_offline** is an exploded directory, WebLogic Server will install all components in and below the oaam_rm_offline directory. Then, click **Next**.

| WEBLOGIC SERVE | ER DLE | | | | n Balance Balance Balance Balance Balance Balance | | terret kitaren bitaren bitaren bitaren bitaren bitar | | | |
|--|-----------------------|--|---|--------------|---|-----------|--|----------|--------|---|
| Change Center | Welcome, | weblogic | Connected to: wl_ | server | 🟠 Home 🛛 L | og Out | Preferences | Help | AskBEA | T |
| View changes and restarts | Home > U Deployn | Jsers and Groups > admin > RuleAdministratorsGroup > nents | Users and Groups > csr1 > Users and Gro | oups > csrm1 | > Users and Group | s > Users | and Groups > Su | mmary of | F | |
| No pending changes exist. Click the Release Configuration button to allow others to edit the domain | Instal | I Application Assistant | | | | | | | | |
| Lock & Edit Release Configuration | Loc | Next Finish Cancel | deployment root directory, archive file, exploded | archive dire | actory, or applica | ation mod | lule descriptor 1 | that you | | - |
| Domain Structure | No cor | nt to install. te: Only valid file paths are displayed below. If Itains the required deployment descriptors. | you cannot find your deployment files | s, upload yo | ur file(s) and/or | confirm 1 | that your applic | ation: | | |
| Deployments IT-Services | Locat | ion: 192.168.254.2 \C: | | | | | | | | |
| -Security Realms | | 🗀 bea | | | | | | | | |
| ⊕-Interoperability ⊡-Diagnostics | | bharosa_server | | | | | | | | |
| How do I | | bosco's hardisk-uday | | | | | | | | |
| Start and stop a deployed Enterprise application | | | | | | | | | | |
| Configure an Enterprise application | | 🗀 cygwin | | | | | | | | |
| Create a deployment plan Target an Enterprise application to | | C dev | | | | | | | | |
| a server | | Documents and Settings | | | | | | | | |
| application | | DRIVERS | | | | | | | | |
| System Status 💿 | Ø | fabharosa | | | | | | | | |
| Health of Running Servers | | Garmin | | | | | | | | ~ |
| < | | | Ш | | | _ | | | | > |
| 🔝 Find: extracted 😽 Ne | ext 🏦 <u>P</u> reviou | us 🔄 Highlight <u>a</u> ll 📃 Match case | | | | | | | | |
| Done | | | | | | | | | | |

10. Specify to target the installation as an application and click **Next**.



11. (Optional Step) Update additional deployment settings.

Settings include:

- The deployed name of the Adaptive Risk Manager Offline Web application.
- The security model that is applied to the Adaptive Risk Manager Offline Web application.
- How the directory contents are made available to targeted managed servers and clusters.

Typically, the default values are adequate.

| bea WEBLOGIC SERVE | ER | | | Marin Marin Marin Mari | | | | ^ |
|---|---|---|----------------|------------------------|------------------|------------|--------|----|
| Change Center | Welcome, weblogic | Connected to: wl_server | 🟠 Home | Log Out | Preferences | Help | AskBEA | |
| View changes and restarts | Home > csrm1 > Users and Groups > csrm1 > Users and Gro Summary of Deployments | oups > csr1 > Users and Groups > auditor1 | > Summary of I | Deployments | > Summary of Env | vironment | > | |
| No pending changes exist. Click the Release Configuration button to allow others to edit the domain. | Install Application Assistant Back Next Finish Cancel Optional Settings You can modify these settings or accept the determined of the settings or accept the settings or accept the determined of the settings or accept the setting | aults | | | | | | 11 |
| Domain Structure wLserver E-EnvironmentClustersVirtual HostsMigratable TargetsMigratable StrigetsMachines | General What do you want to name this deployment Name: Security | , | | | | | | |
| Work Managers Startup & Shutdown Classes Deployments B-Services | What security model do you want to use wit | n this application? hat are defined in the deploymen | t descriptor | s. | | | | |
| E-Interoperability | CustomRoles: Use policies that are d | efined in the deployment descrip | tor. Create | custom rol | le mappings la | iter. | | |
| How do I | later. | онез ана ронскез III фериоушент и | escripturs, t | Ji cate cus | com roles and | a policie: | | |
| Enterprise application | OAdvanced: Use a custom model that | you have configured on the real | m's configur | ation page | e. | | | ~ |
| Done | | | | | | | | |

12. Review the configuration settings you specified, and click **Finish** to complete the installation.



- 13. In order to work successfully, the application may require additional configuration. In the Additional Configuration section of the Install Application Assistant page, choose from the two options available.
 - Yes, take me to the deployment's configuration screen
 - No, I will review the configuration later

- If you chose the **Yes, take me to the deployment's configuration screen** option, you will go immediately to the deployment's configuration screen where you will be able to click the tabs to set additional configuration settings for the Adaptive Risk Manager Offline Web application.
- If you chose the **No, I will review the configuration later** option, the Administration Console returns you to the Deployments table, which should now include your newly-installed Adaptive Risk Manager Offline Web application.

| Change Center | Welcome, weblogic Connected to: wl_server | Home Log Out | Preference | s Help A | skBEA |
|---|--|--|---------------------------------|-----------------------------|-------|
| View changes and restarts | Home > Users and Groups > admin > RuleAdministratorsGroup > Users and Groups > csr1 > Users and Groups > csr1 > Deployments | Users and Groups > Users | ; and Groups > | Summary of | ſ |
| No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure | Summary of Deployments Control Monitoring This page displays a list of IZEE Applications and standalone application modules that have been install modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting t page. To install a new application or module for denivment to targets in this domain. click the Install builton. | lled to this domain. Ins the application name a | talled applicat nd using the | tions and controls on th | is |
| wl_server elswironment - Deployments elservices - Security Realms el Interoperability | Deployments | Showin | g 1 - 1 of 1 | Previous Nex | t |
| Diagnostics | Name 🔅 | State | Туре | Deployment Order | |
| How do I | □ 🛛 🗃 🙀 ejb20BeanMgedEar | Active | Enterprise Application | 100 | |
| Install an Enterprise application Configure an Enterprise application Interprise applicati | B @examplesWebApp | Active | Web Application | 100 | |
| application Start and stop a deployed | 🗋 🖻 🗃 fabharosa | Active | Web Application | 100 | |
| Enterprise application Monitor the modules of an | 🔲 🗄 📺 jibucRowSetsEar | Active | Enterprise Application | 100 | |
| Enterprise application Deploy EJB modules | 🛛 🛛 🖶 🙀 jip Simple TagEar | Active | Enterprise Application | 100 | |
| Install a Web application | 🛛 🖻 👼 mainWebApp | Active | Web Application | 100 | |
| System Status | B 👸 SamplesSearchWebApp | Active | Web Application | 100 | |
| < | | | 1 1 | | |
| 🔟 Find: extracted 😽 Ne | ext 🍿 Previous 🖻 Highlight all 🔲 Matgh case | | | | |
| Done | | | | | |

14. In the left pane, click the **Activate Changes** button under the **Change Center** section.

| Pending changes exist. They must be activated to take effect. Settings for fabharosa Activate Changes Overview Configuration Security Targets Control Undo All Changes Save Domain Structure Use this page to view the installed configuration of a Willing table Targets -Narrise -Clusters -Outsters -Outsters -Outsters Context Root: -Work Managers Satrup 3. Shutdown Classes Security Realms Settings Mode: Intercoperability Deployment plan Deploy Web applications Configure Web applications Configure Web applications Security Model: DOonly | |
|---|---|
| Activate Changes Undo All Changes Domain Structure wl_server Environment Servers - Clusters - Virbual Hosts - Migratable Targets - Machines - Work Managers - Strutp & Shutdown Classes - Deployments - Servers - Custers - Virbual Hosts - Servers - Custers - Virbual Hosts - Benvices - Benvices - Servers - Custers - Virbual Hosts - Migratable Targets - Machines - Servers - Servers - Servers - Servers - Servers - Custers - Work Managers - Strutp & Shutdown Classes - Bertype developing - Bertype developing - Deployment Plan: (not specified) - Deployweb applications - Configure Web applications - Condignee web apolyment plan | |
| Domain Structure wil_server Servers -Custers -Vitual Hosts -Migratable Targets -Wick Managers -Services -Services -Services -Services -Services -Deployments B-Interoperability B-Interoperability B-Dagnostics -Name: fabharosa Context Root: (No value specified) Path: C:Qocuments and Settings\bosco\Deskt B-Deployment Beams Configure Web applications Configure Web applications Configure Web applications Configure Web applications Deployment Plan Configure Web applications Configure Web applications Configure Web applications Deployment Plan DoDonly | Testing Monitoring Notes |
| will_server Use this page to view the installed configuration of a Will Servers Custers -Virbual Hosts Mame: -With Managers Context Root: -Work Managers Context Root: -Security Realms Path: Beployments Configure Web applications Configure Web applications Configure Web applications Configure Web applications Staging Mode: Test the denoument Doonly | |
| Clusters -Vtrail Hosts Migratable Targets Machines Machines Machines Services Startup & Shutdown Classes Deployments Security Realms Bi-Interoperability Bi-Deagnostics Tow do 1 Deploy Web applications Configure Web applications Configure Web applications Configure Web applications Test the deployment plan Security Model: DDOnly | b Application. |
| Image: Migratable Targets Migratable Targets Migratable Targets Migratable Targets Work Managers Startup & Shutdown Classes Deployments Path: C:\Documents and Settings\bosco\Deskt B: Services Deployment Plan: (no plan specified) B: Deploy Web applications Staging Mode: (not specified) Configure Web applications Staging Mode: Docnly | The name of this application deployment. More Info |
| Deployments Deployments Deployments Deployments Deployment Plan: Crobardel: Deployweb applications Crofigure Web applications Crofigure Web applications Create a deployment plan Security Model: DDOnly | The specific path at which this web application is found by a servlet. More $\ensuremath{\text{Info}}\xspace$. |
| B: Interoperability Deployment Plan: (no plan specified) DeployWeb applications Create a deployment plan Test the denovment Security Model: DDOnly | The path to the source of the deployable unit on the Administration Server. More Info |
| tow do I Staging Mode: (not specified) Configure Web applications Consta a deployment plan Test the denorment December 2 Security Model: DDDOnly | The path to the deployment plan document on Administration Server. More Info |
| Test the deployment DDOnly Security Model: DDOnly | The mode that specifies whether an application's files are copied from a source on the Administration Server to the Managed Server's staging area during application preparation. More Info |
| Monitor Web applications and | The security model specifies how this deployment should be secured. More Info |
| servlets | A numerical value that indicates when this unit is deployed, relative to other Deployable lights on a server, during |
| | |

- 15. From the **Domain Structure** section in the left pane, select **Deployments**.
- 16. Select the Adaptive Risk Manager Offline Web Application Module, oaam_rm_offline, and click Stop.
- 17. Select the **oaam_rm_offline** module again, click **Start**, and wait for its state to become Active.

| View changes and restarts | ome > RuleAdministratorsGroup > Users and Groups > csr1 > Users and Groups > csrm1 > Users and Groups > Users and Groups > Su usls > Summary of Deployments | mmary of D | eployments > 9 | Summary of Asynchronous | , • |
|--|---|------------------------|---------------------------------|-------------------------------|-----|
| No pending changes exist. Click the Release Configuration button to allow others to edit the | Summary of Deployments | | | | |
| domain. | Cantrol Monitoring | | | | |
| Lock & Edit Release Configuration | This page displays a list of J2EE Applications and standalone application modules that have been installed to this do modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the applicatio page. | main. Ins In name a | talled applica and using the | tions and controls on this | |
| Domain Structure | To install a new application or module for deployment to targets in this domain, click the Install button. | | | | |
| wl_server Environment Deployments | Deployments | | | | |
| Services Security Realms | Install Update Delete Start V Stop V | Showin | g 1 - 1 of 1 | Previous Next | |
| E Diagnostics | 🗆 Name 🌣 | State | Туре | Deployment Order | |
| How do I | 🛛 🛛 🖶 🔐 ejb208eanMgedEar | Active | Enterprise Application | 100 | |
| Install an Enterprise application Configure an Enterprise application | BetexamplesWebApp | Active | Web Application | 100 | |
| Update (redeploy) an Enterprise application Start and stop a deployed | 🗵 🖻 📷 fabharosa | Active | Web Application | 100 | |
| Enterprise application | 🔲 🛛 📺 jijdbcRowSetsEar | Active | Enterprise Application | 100 | |
| Enterprise application Deploy E18 modules Neathly a Mithematication | 🔲 🗉 📸 spSimpleTagEar | Active | Enterprise Application | 100 | L |
| Install a web application | 🗇 🗄 🗃 mainWebApp | Active | Web Application | 100 | |
| System Status | Be SamplesSearchWebApp | Active | Web Application | 100 | |
| Failed (0) | B gigwebappCachingEar | Active | Enterprise Application | 100 | |
| (| | | | | > |
| 🛛 Find: extracted 😽 Next 🕯 | Previous 💿 Highlight all 🔲 Matgh case | | | | |
| Done | | | | | |

Tomcat

Notes on Tomcat

1. Download the Tomcat 5.5.xx admin package from the archives of Tomcat's 5.x downloads.

For example, Tomcat 5.5.20 can be downloaded from the following link: http://archive.apache.org/dist/tomcat/tomcat-5/v5.5.20/bin/apache-tomcat-5.5.20-admin.tar.gz

- 2. Unzip the package and copy the files to the Tomcat home directory. For example, /opt/apache/apache-tomcat-5.5.20/
- 3. Delete the admin directory in the webapps/ROOT directory in the Tomcat directory, if any exists.

For more detailed information on setting up the Tomcat Web Server Administration Tool, refer to the "Tomcat FAQ" available at http://tomcat.apache.org/.

Creating Roles and Adding Users from the Tomcat Web Server Administration Tool

To create roles and add users from the Tomcat Web Server's Administration Tool Application:

1. Log in to the Tomcat Web Server Administration Tool by entering the username and password for the administrator account you created for Tomcat; then click **Login**.



- 2. From the Administration Tool's left pane, select **User Definition** and click **Roles**.
- 3. From the **Role Actions** list in the right pane, select **Create New Role**.
- 4. In the Role Properties section, enter web_RuleAdministrators in the Role Name field and Bharosa FA Web RuleAdministrators in the Description field and click Save.

| TOMCAT WEB SERVER Administration Tool | | | Commit Changes | Log Out |
|---|---|---------------------------|-----------------|--------------------------------|
| ♥ ₩ Tomcat Server ♥ Service (Catalina) ♥ ■ Resources ■ Data Sources ■ Mail Sessions ▲ Environment Entries ♥ ■ User Databases ♥ ■ User Definition ♠ Users ♠ Groups ♠ Roles | Create New Role Progeties Role Properties Description:: | web_RuleAdm Bharosa FA | Role ActionsAva | ilable Actions V Save Reset |
| | | | 😜 Internet | 🔍 100% 👻 |

5. Then, repeat the process to create the web_CSRManager, web_CSR, web_Auditors, and all roles.

The screen below shows the five user roles created.

| Tomcat Web Server Administration Tool | | Commit Changes Log Out |
|--|------------------------|-----------------------------------|
| ¢ ঋ Tomcat Server ০ ঊ Service (Catalina) ৫ ানিssources | Roles List | Role ActionsAvailable Actions M |
| Data Sources | Role Name | Description |
| Mail Sessions | admin | |
| User Databases | <u>all</u> | Bharosa FA All |
| ♥ ☐User Definition | manager | |
| - Trans | role1 | |
| -*** Groups | tomcat | |
| | web Auditors | Bharosa FA Web Auditors |
| | web CSR | Bharosa FA Web CSR |
| | web CSRManager | Bharosa FA Web CSRManagers |
| | web RuleAdministrators | Bharosa FA Web RuleAdministrators |
| | | |
| 🕖 Done | | 😜 Internet 🔍 100% 🔻 💡 |

- 6. From the Administration Tool's left pane, select **User Definition** and click **Users**.
- 7. From the User Actions list in the right pane, select Create New User.
- 8. Enter **ruleAdmin1** in the **User Name** field, values for the **Password** and **Full Name** fields, and select the **web_RuleAdministrators** check box. Then, click **Save**.

| Tomcat Web Server Administration Tool | | | Commit Changes Log Out |
|--|----------------------------|-----------------------------------|---------------------------------|
| | Create New User Properties | | User ActionsAvailable Actions 💌 |
| | | | Save Reset |
| Mail Sessions | User Properties | | |
| Environment Entries | User Name: | ruleAdmin1 | |
| ♥ □ User Definition | Password: | ••••• | |
| - Tusers | Full Name: | FA Rule Administrator one | |
| Roles | | | |
| | Group Name | Description | |
| | Role Name | Description | |
| | | Description | |
| | | Bharosa FA All | |
| | <u>manager</u> | | |
| | □ <u>role1</u> | | |
| | tomcat | | |
| | web Auditors | Bharosa FA Web Auditors | |
| | web_CSR | Bharosa FA Web CSR | |
| | web_CSRManager | Bharosa FA Web CSRManagers | |
| | web RuleAdministrators | Bharosa FA Web RuleAdministrators | |
| | | | Save Reset |
| | | | 😜 Internet 🔍 100% 🔹 |

- 9. Repeat the process for creating users for
 - user csrm1 with Role web_CSRManager
 - user csr1 with Role web_CSR
 - user auditor1 with Role web_Auditors
- 10. Optionally, you can attach all users created (**ruleAdmin1**, **csrm1**, **csr1**, and **auditor1**) so far to role **all**.

The four users are shown in the following screen.

| TOMCAT WEB SERVER Administration Tool | | | Commit Changes | Log Out |
|--|------------------|--|-------------------|----------------|
| ♥ ≪ Tomcat Server ♥ ☞ Service (Catalina) ♥ □■Resources | Users List | | User ActionsAvail | able Actions 🔽 |
| Data Sources Mail Sessions | User Name | Full Name | | |
| | auditor1 both | Bharosa FA Auditor one | | |
| | csr1 csrm1 | Bharosa FA CSR one Bharosa FA CSR Manager one | | |
| | ruleAdmin1 | FA Rule Administrator one | | |
| | tomcat | | | |
| | | | | |
| 🕐 Done | | | 😜 Internet | 🔍 100% 🔻 |

11. Click the **Commit Changes** button to commit the changes for the roles and users created.

| Tomcat Web Server Administration Tool | | | Commit Changes | Log Out |
|--|---|--|-------------------|-----------------|
| ♥ ≪ Tomcat Server ♥♥ Service (Catalina) ♥ □■Resources | Users List | | User ActionsAvail | able Actions 🔽 |
| ➡ Data Sources ➡ Mail Sessions ➡ Environment Entries ➡ User Databases ♥ □User Definition ♠ Users ♠ Groups ♠ Roles | User Name admin auditor1 both csr1 csm1 role1 ruleAdmin1 tomcat | Full Name Bharosa FA Auditor one Bharosa FA CSR one Bharosa FA CSR Manager one FA Rule Administrator one | | |
| 🕐 Done | 1 | | 😜 Internet | € 100% ▼ |

For more information about groups, refer to the "Adaptive Risk Manager Offline User Groups Reference" section of this manual.

Deploying the Adaptive Risk Manager Offline Application WAR

To deploy the Adaptive Risk Manager Offline Application WAR,

- 1. Log in to the Tomcat Web Application Manager.
- 2. In the Deploy section, click the **Browse** button to select the WAR file to upload and deploy.

| | | Tomcat Web Appli | ration Manag | er | | | | |
|-----------------------------|-----------------------------|---|--------------|-------------|------------|--------|----------|--------------|
| | | | cation Manag | | | | | |
| Message: | | | | | | | | |
| Manager | | | | | | | | |
| List Applications | | HTML Manager Help | | Manager Hel | p | | | Server Statu |
| | | | | | | | | |
| Applications | | | | | | | | |
| Path | Display Name | | Running | Sessions | | | Commands | |
| | Welcome to Tomcat | | true | 0 | Start Stor | Reload | Undeploy | |
| <u>idmin</u> | Tomcat Administration Appli | cation | true | <u>0</u> | Start Stor | Reload | Undeploy | |
| alancer | Tomcat Simple Load Balance | er Example App | true | 0 | Start Stor | Reload | Undeploy | |
| nost-manager | Tomcat Manager Application | | | 0 | Start Stop | Reload | Undeploy | |
| sp-examples | JSP 2.0 Examples | | taise | <u>v</u> | Start Stop | Reload | Undeploy | |
| manager | Tomcat Manager Application | | true | <u>v</u> | Start Stop | Reload | Undeploy | |
| serviets-examples | Serviet 2.4 Examples | | taise | <u>U</u> | Start Stop | Reload | Undeploy | |
| tomcat-docs | Tomcat Documentation | | true | <u>U</u> | Start Stop | Reload | Undeploy | |
| webday | vvebdav Content Managemer | 11 | true | <u>U</u> | Start Stop | Reload | Undeploy | |
| Deploy | | | | | | | | |
| Deploy directory or WAR fil | le located on server | | | | | | | |
| | Conte | xt Path (optional): | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| WAR or Directory URL: | | | | | | | | |
| | | Deploy | | | | | | |
| | | | | | | | | |
| NAR file to deploy | | | | | | | | |
| | Select WAR file to uplo | d C:\Documents and Settings\bosco\Desktop\ter | Browse | | | | | |
| | | | | | | | | |

3. Select the **oaam_rm_offline.war** of the Adaptive Risk Manager Offline Application and click **Open**; then, in the Tomcat Web Application Manager page, click **Deploy**. 4. Find the deployed application under the **Applications** section of the Tomcat Web Application Manager Web page.

| Tomcat Web Application Manager | | | | | | | <u>^</u> |
|--------------------------------|---------------------------|----------------------|----------|------------|-----------------|-----------------|--------------|
| Message: | | | | | | | |
| Manager | | | | | | | |
| List Applications | | HTML Manager Help | | Manager He | elp | <u>S</u> | erver Status |
| a 1 1 | | | | | | | 1 |
| Applications | | | | | | <u> </u> | |
| Path | Display Name | | Running | Sessions | | Commands | |
| L | Welcome to To | mcat | true | <u>0</u> | Start Stop | Reload Undeploy | |
| <u>/admin</u> | Tomcat Admini | stration Application | true | <u>0</u> | Start Stop | Reload Undeploy | |
| /balancer | Tomcat Simple | true | <u>0</u> | Start Stop | Reload Undeploy | | |
| /fabharosa | Bharosa Tracke | er Admin | true | <u>0</u> | Start Stop | Reload Undeploy | |
| /host-manager | Tomcat Manag | er Application | true | <u>0</u> | Start Stop | Reload Undeploy | |
| /jsp-examples | JSP 2.0 Examp | bles | false | <u>0</u> | Start Stop | Reload Undeploy | |
| /manager | Tomcat Manag | er Application | true | <u>0</u> | Start Stop | Reload Undeploy | |
| /servlets-examples | Servlet 2.4 Examples | | false | <u>0</u> | Start Stop | Reload Undeploy | |
| /tomcat-docs | Tomcat Documentation | | true | <u>0</u> | Start Stop | Reload Undeploy | |
| /webdav | Webdav Content Management | | | <u>0</u> | Start Stop | Reload Undeploy | |
| | | | | | | | |
| Deploy | | | | | | | ~ |
| | | | | | | 🕘 Internet | 🔍 100% 🔻 💡 |

- Edit the files log4j.xml, sessions.xml, and bharosa_server.properties from TOMCAT_HOME/webapps/oaam_rm_offline/WEB-INF/classes/ for appropriate values as mentioned in log4j configuration, TopLink Configuration Reference, and Server Properties Configuration sections of this document.
- 6. Download any third party jars like sqljdbc.jar into **TOMCAT_HOME/webapps/oaam_rm_offline/WEB-INF/lib** directory.
- 7. Restart the Tomcat Application Server from Services or from the command prompt.

IBM WebSphere Application Server 6.1

Using the Launchpad to Start the Installation

- 1. Go to http://www.ibm.com/developerworks/downloads/ws/was/.
- 2. Click the **System requirements** link to check that the minimum operating system and hardware requirements are met on the server to support the basic installation and use of the WebSphere Application Server.
- 3. Register for a universal IBM user ID if you have not already done so. You will need an IBM ID to proceed with the WebSphere Application Server download.
- 4. Navigate to the download page and select the WebSphere Application Server Base option. Then, click **Download now**.
- 5. Use a file extracting utility to unpack the WebSphere Application Server files into a single, temporary directory on your system.
- 6. Double-click launchpad.exe, which is located in the temporary directory, to start the install process.

The launchpad panel for the WebSphere Application Server - Express appears.

| 🙆 WebSphere Application Serve | r - Express Trial 📃 🗖 🔀 |
|---|---|
| WebSphere Application Server | Language selection: English |
| Welcome | Welcome to WebSphere Application Server - Express Trial |
| Installation Diagrams | ····· ···· ····· |
| WebSphere Application Server - Express Trial Installation | We recommend viewing the installation diagrams for illustrations of common application server environments. For full documentation visit the on-line WebSphere Information Center. |
| Exit | To begin, select an entry from the list below to initialize a product installation wizard. Alternatively, select a product on the navigation list to left to read descriptions of the products, and browse help documentation and support links before starting an installation wizard. |
| | WebSphere Application Server - Express Trial |
| | Launch the installation wizard for WebSphere Application Server - Express Trial. |
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| | |

- 7. Click **Install Diagrams** to view the diagrams for common installation configurations.
- 8. Launch the installation wizard by clicking the Launch the installation wizard for Websphere Application Server Express link in the launchpad panel.
- 9. In the Welcome to the IBM WebSphere Application Server Trial install wizard screen, click **Next** to continue.

- 10. When the **Software License Agreement** screen appears, accept the IBM and non-IBM terms and press **Next** to continue.
- 11. In the System prerequisite check screen, click Next to continue.
- 12. In the Install Sample Applications screen, deselect the Install the sample applications option, and press Next to continue.
- 13. When the **Product install location** screen appears, click **Next** to install to the default location or click **Browse** to install in another location.
- 14. When the **Enable Administrative Security** screen appears, select the **Enable** administrative security option and type in a username and password. Then, click **Next** to continue.

By enabling security, you protect your server from unauthorized users and are then able to provide application isolation and requirements for authenticating application users.

- 15. In the **Installation Summary** screen, click **Next** to continue.
- 16. Press the **Finish** button after the installation completes.

Verifying the WebSphere Installation

1. Launch the **First steps console** from the Start menu if it did not launch automatically after the installation.

Select IBM WebSphere > Application Server > Profiles > AppSrv01 > First steps.

The **First steps console** will enable you to verify the installation, start or stop the Application Server, access the administrative console, access the information center, and so on from a central location.

2. Click **Installation Verification** from the **First steps console** to ensure that your installation has been successful.

| 🕀 WebSphere Application Server - First steps - AppSrv01 | _ 🗆 🗙 |
|---|-------|
| WebSphere Application Server | IBM. |
| First steps | |
| Installation verification Confirm that your server is installed and that it can start properly. | |
| Stop the server Stop the server and its applications. | |
| Administrative console Install and administer applications. | |
| Profile management tool Work with profiles. | |
| Samples gallery See WebSphere Application Server in action. | |
| Information center for WebSphere Application Server Learn more about WebSphere Application Server. | |
| Migration wizard Migrate WebSphere Application Server V5 or V6 to V6.1. | |
| Exit | |
| | |

An example of an Installation verification screen is shown below.

| First steps output - Installation verification | _ 🗆 🛛 |
|---|-------|
| Server name is:server1 | |
| Profile name is:AppSrv01 | |
| Profile home is:C:\usr\IBMWebSphere\AppServer\profiles\AppSrv01 | |
| Profile type is: default | |
| Cell hame Is:PrakkyNodeUT Cell | |
| Nude name is PrakkyNudeun | |
| Concernent encouning is. Cp1 202 | |
| WTI 00211 The Installation Verification Tool cannot connect to WebSphere Application Server waiting for the server to start | |
| IVTL0010I: Connecting to the WebSphere Application Server Prakky on port 9080 | |
| IVTL0020I: The Installation Verification Tool cannot connect to WebSphere Application Server; waiting for the server to start. | |
| Start running the following command:cmd.exe /c "C:\usr\IBMWebSphere\AppServer\profiles\AppSrv01\bin\startServer.bat" server1 -profileName AppSrv01 | |
| >ADMU0116I: Tool information is being logged in file | |
| C:\usr\IBM\WebSphere\AppServer\profiles\AppSrv01\logs\server1\startServer.log | |
| >ADMU77011: Because server1 is registered to run as a Windows Service, the | |
| request to start this server will be completed by starting the | |
| associated windows Service. | |
| Addisor for roundom is being logged in the s | |
| C/ust/IBM/WebSphere/AppServer/appSi/U/appSserver1/startServer / app | |
| | |
| >ADMU0128I: Starting tool with the AppSrv01 profile | |
| > | |
| >ADMU31001: Reading configuration for server: server1 | |
| > | |
| >ADMU3200I: Server launched. Waiting for initialization status. | |
| > - DDMI 199001: Conversion and even for a husinesse interessed id is 2000 | |
| | |
| r IVTI 00151: WebSphere Application Server Prakty is running on port 9090 for profile AppSp01 | |
| Testing sever using the following URI: http://prakky/9080/info/sever?parm2=idsev/ef | |
| VTL0050I: Servet engine verification status: Passed | |
| Testing server using the following URL:http://Prakky:9080/ivt/ivtserver?parm2=ivtAddition.jsp | |
| IVTL00551: JavaServer Pages files verification status: Passed | |
| Testing server using the following URL:http://Prakky:9080/w/ivtserver?parm2=ivtejb | |
| IVTL0060I: Enterprise bean verification status: Passed | |
| IVTL00351: The Installation Verification Tool is scanning the file C:\usr\IBM\WebSphere\AppServer\profiles\AppSrv01\logs\server1\SystemOut.log for errors and warnings. | |
| [7/2307 18:52/43:593 PDT] 00000000 WSKeyStore W CWPKI0041W: One or more key stores are using the default password. | |
| [//230/18/5/3/04/812 PDT] 000000004 ThreadPointgr W - WSVR0526W; the ThreadPointsetting on the Objectedquesteroker service is deprecated. | |
| INT LOOPOL 2 endowmentings are detected in the me clusification sophieterwpporterupromeswpporterubgisterven toystemoutlog INTL 00201 The Installation Varification Tool verification successed | |
| VT LOORD: The installation verification is complete | |
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If there are errors during the verification that indicate that the Application Server did not start, you will have to manually start the server before continuing to the next step.

Installing the Oracle Adaptive Risk Manager Offline Web Applications

1. Log in to the WebSphere Administration Console by pointing your browser to http://server.name:9060/admin.

The default URL uses the default port.

- 2. Enter your credentials in the login.
- 3. From console's left pane, select **Applications** and click **Install New Application**.
- 4. Upload the WAR file and specify the Context root parameter.

For example, specify "/oaam_rm_offline" for the oaam_rm_offline.war file.

| View: WebSphere Application Server | Enterprise Applications | Close page |
|---|--|--|
| Welcome | Preparing for the application installation ? | Help |
| Guided Activities Guided Activi | | |
| | Specify the EAR, WAR, JAR, or SAR module to upload and install. | For field help information, |
| Applications | Path to the new application | select a field label or list marker when the help |
| Enterprise Applications Install New Application | Local file system Full path | cursor appears. |
| • Resources | Browse | More information about this page |
| | C Remote file system | |
| Environment | Full path | |
| | Browse | |
| 🕑 Users and Groups | Context root | |
| Monitoring and Tuning | Used only for standalone Web modules (.war files) and SIP modules (.sar | |
| 🖂 Troubleshooting | Here do non monteto la stallato condicativa. | |
| Logs and Trace Configuration Problems Class Loader Viewer Configuration Validation Diagnostic Provider Runtime Messages Runtime Error Runtime Error Runtime Information | Prompt me only when additional information is required. Show me all installation options and parameters. Next Cancel | |
| Burger | | |
| Web services JAX-RPC Handlers JAX-RPC Handler Lits WS-Security bindings WS-Security configurations UDDI References WS-Notification services UDDI UDDI UDDI UDDI | | |
| 📴 Find: war 🕹 Next 🎓 Pr | - evious 📄 Highlight all 🔲 Match case | |
| Done | | |

5. In the Select installation options section, select the Distribute application and Create MBeans for resources options as shown in the screen below. Ensure that the default settings for the other options are kept. Then, click Next.



- 6. When the **Map modules to server** screen appears, select the Oracle Adaptive Access Manager module and click **Next**.
- 7. When the **Map virtual hosts for Web modules** screen appears, select the Oracle Adaptive Access Manager module and click **Next**.
- 8. Click **Finish** when the **Summary** screen appears.

The Installation trace similar to the one shown below is run.

Installing... If there are enterprise beans in the application, the EJB deployment process can take several minutes. Please 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 oaam rm offline war started. ADMA5067I: Resource validation for application oaam rm offline war completed successfully. ADMA5058I: Application and module versions are validated with versions of deployment targets. ADMA5005I: The application oaam rm offline war is configured in the WebSphere Application Server repository. ADMA5053I: The library references for the installed optional package are created. ADMA50051: The application oaam rm offline war is configured in the WebSphere Application Server repository. ADMA5001I: The application binaries are saved in C:\usr\IBM\WebSphere\AppServer\profiles\AppSrv01\wstemp\-148432730\workspace\cells\PrakkyNode01Cell\applications\ oaam rm offline war.ear\oaam rm offline war.ear ADMA5005I: The application oaam rm offline war is configured in the WebSphere Application Server repository. SECJ0400I: Successfuly updated the application oaam rm offline war with the appContextIDForSecurity information. ADMA5011I: The cleanup of the temp directory for application oaam rm offline war is complete. ADMA5013I: Application oaam rm offline war installed successfully. Application oaam rm offline war 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" button.

Manage Applications

9. Click the **Save** link in the Install trace file.

Save directly to the master configuration.

Review changes before saving or discarding. To work with installed applications, click the "Manage Applications" button. 10. From the Console's left pane, select **Applications**, and then, click **Enterprise Applications** to view a list of the installed applications.

The Enterprise Applications page appears, as shown below.

| | Enterprise App | lications | | Close page | | | |
|--|-------------------------|---|--------------------------------------|-----------------------------|--|--|--|
| View: WebSphere Application Server 💌 | Enterprise And | lications | 2 - | Help | | | |
| Welcome | | | | | | | |
| Guided Activities | Enterprise Applications | | | | | | |
| | Use this pag | Use this page to manage installed applications. A single application can be deployed onto multiple servers. | | | | | |
| Applications | Preferen | ces | | cursor appears | | | |
| Enterprise Applications Install New Application | Maxim 20 | num rows | | Page help More informati | | | |
| | Re | tain filter criteria. | | this page | | | |
| E Security | Apply | Reset | | Command Ass | | | |
| Environment | | | | scripting comm | | | |
| System administration | Start | Stop Install Uninstall Update Rollout | Update Remove File Export Export DDL | action | | | |
| | | H 40 | | | | | |
| Monitoring and Tuning | | | | | | | |
| Troubleshooting | Select | Name 🗘 | Application Status 🖸 | | | | |
| Logs and Trace | | DefaultApplication | ⇒ | | | | |
| Configuration Problems | | Dynamic Cache Monitor | • | | | | |
| Configuration Validation | | PlantsByWebSphere | • | | | | |
| 🗈 Diagnostic Provider | | SamplesGallery | A | | | | |
| 🖃 Runtime Messages | | | • | | | | |
| Runtime Error | | bharosa war | * | | | | |
| Runtime Information | | ivtApp_ | • | | | | |
| Service integration | | guery_ | \$ | | | | |
| Buses | Total 7 | | | | | | |
| 🖃 Web services | | | | | | | |
| JAX-RPC Handlers | | | | | | | |
| SMARKPC Handler Lists WS-Security bindings | | | | | | | |
| WS-Security configurations | | | | | | | |
| UDDI References | | | | | | | |
| WS-Notification services | | | | | | | |
| | | | | | | | |
| UDDI Nodes | | | | | | | |
| | | | | | | | |
| Mext I Pre | evious 📺 Highlight | ali 🛄 maton case | | | | | |
| http://localhost:9060/ibm/console/navigatorCmd.do?for | /wardName=Applicat | ionDeployment.content.main | | | | | |

Creating Users and User Groups

1. Launch the Administrative Console from the Start menu.

Start > IBM WebSphere > Application Server V6.1 > Profiles > AppSrv01 > Administrative console).

2. Login to the WebSphere Application Server Administrative Console.

| Welcome, enter your information. | |
|---|--|
| User ID: | |
| bharosa | F |
| Log in | |
| Note: After some time of inactivity, the system will log you out automatically and ask you to log in again. | 7520- |
| <] | > |
| 🔀 Find: 🖉 Next 🏠 | Previous 🔄 Highlight <u>a</u> ll 🔲 Mat <u>c</u> h case |
| Done | |

- 3. From the Console's left pane, select **Security**, and then, click **Secure** administration, applications, and infrastructure.
- 4. In the Secure administration, applications, and infrastructure page, select Apply.

| Hamil All As also | Secure administration, applications, and infrastructure | Close page |
|---|---|---|
| Viewi Ali tasks | Secure administration, applications, and infrastructure | Help - |
| - Welcome | | Field belo |
| Guided Activities | Secure administration, applications, and infrastructure | Enables administrative |
| E Servers | The application serving environment is completely secured when administration is restricted. The applications and the infrastructure that supports the administration and applications also are secured. | security for this application server domain. |
| Applications | Configuration | Dave hale |
| Resources | | More information about |
| Conservation C | Security Configuration Wizard Security Configuration Report Administrative security Administrative Adminis | Hore information about this page |
| C Find: | t al 🗌 Maldy case | |

- 5. From the left pane, select **Users and Groups,** and then, click **Manage Groups**.
- 6. In the Manage Groups page, click Create.

| View: All tasks | Manage | e Groups | | | | | | |
|---|--------|--------------------|--------|------------------|---------|-------------------------|-------|---------------------|
| - Welcome | Manage | e Groups | | | | | | 2_0 |
| Guided Activities Guided Activi | Sea | rch for Groups | | | | | | |
| Servers | Sear | rch by*Sear | ch for | *Maximum result: | 5 | | | |
| | Gro | oup name 💌 💌 | | 100 | | | | |
| Resources | Sea | arch | | | | | | |
| | | | | | | | | |
| Environment | C | reate Delete | Select | an action | - | | | |
| E System administration | | | | | | | | |
| Users and Groups | | | | | | | | |
| Administrative User Roles Administrative Group Roles Manage Users Manage Groups | | Page 1 of 1 | | Tota | l: 0 | | | |
| Honitoring and Tuning | | | | | | | | |
| Troubleshooting | | | | | | | | |
| | | | | | | | | |
| 1 UDDI | | | | | | | | |
| | | | | | | | | |
| Done | 1 | | | | | | | localhost:9043 🛅 |
| | | | | | | | | |
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The page for creating a group appears.

| View: All tasks | Manage Groups | | | |
|--|--------------------|------------------------|-------------------------|---------------------|
| Welcome | Manage Groups | | | 2 - 0 |
| Guided Activities Guided Activities Guided Activities Subscript Activities Guided Activities Subscript Activities Subscrite Subscript | | | | |
| + Servers | Create a Group | | | |
| | *Group name | | | |
| | CSRManagerGroup | | | |
| | Description | | | |
| Environment | | | | |
| | | | | |
| 🖃 Users and Groups | | | | |
| Administrative User Roles Administrative Group Roles Manage Users Manage Groups | | | | |
| Monitoring and Tuning | freate fancel | | | |
| Troubleshooting | treate tuncer | | | |
| Service integration | | | | |
| 1 UDDI | | | | |
| | | | | |
| Done | | | | localhost:9043 🚊 |
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- 7. Create following groups:
 - CSRManagerGroup
 - CSRGroup
 - RuleAdministratorsGroup
 - AuditorsGroup

| | | | | | | the second se |
|--|----------|--------------------------|-------------|----------------------------------|-------------------------|---|
| View: All tasks | Manage G | roups | | | | |
| Welcome | Manage G | roups | | | | 2. |
| Guided Activities Guided Activities Guided Activities Subscript Activities Guided Activities Subscript Activities Subscrite Subscript | | | | | | |
| | Search | for Groups | | | | |
| | Group | name 💌 * Search for * | Maximum re | esults | | |
| | Searc | h | | | | |
| | | | | | | |
| Environment | Crea | te Delete Select a | an action | * | DC ず 🖤 | |
| | Select | Group name | Description | Unique Nan | ne | |
| 🖃 Users and Groups | | AuditorsGroup | | cn=AuditorsGroup,o=defaultWIMFil | eBasedRealm | |
| Administrative User Roles | | CSRGroup | | cn=CSRGroup,o=defaultWIMFileBa | sedRealm | |
| Administrative Group Roles Manage Users | | CSRManagerGroup | | cn=CSRManagerGroup,o=defaultW | IMFileBasedRealm | |
| Manage Groups | | RulesAdministratorsGroup | | cn=RulesAdministratorsGroup.o=de | afaultWIMFileBasedRealm | |
| Monitoring and Tuning | | | | | | |
| | Pag | je 1 of 1 | | Total: 4 | | |
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8. **Optional:** Create users using the **Manage Users** option and assign these users (or existing users) to the groups previously created.

For example, create:

- csrm1
- csr
- ruleAdmin1
- auditor1

Then, assign:

- csrm1 to CSRManagerGroup
- csr to CSRGroup
- ruleAdmin1 to RuleAdministratorsGroup
- auditor1 to AuditorsGroup

For more information about groups, refer to the "Adaptive Risk Manager Offline User Groups Reference" section of this manual.

Configuring JNDI for Adaptive Risk Manager Offline on the WebSphere Application Server

- 1. From the Console's left pane, select **Resources**, and then, click **JDBC**.
- 2. Select JDBC Providers.
- 3. Enter the values as shown in the Enter basic data source information screen below and click **Next**.

Data source name: bharosaJNDI

JNDI name: bharosaJNDI

| Integrated Solutions Console Welcome | Help Logout | |
|--|--|-----------------------------|
| View: All tasks | Data sources | Close page |
| Welcome | Create a data source | Help - |
| Guided Activities | | Postal back |
| E Servers | Create a data source | For field help information, |
| Application servers | Step 1: Enter basic Enter basic data source information | marker when the help cursor |
| Web servers | data source information | appears. |
| WebSphere MQ servers | set the basic configuration values or a data source for association with your JDEC provider. A data source supplies the physical connections between the application server and the database. | |
| Applications | provider Requirement: Use the Data sources (WebSphere(R) Application Server V4) console pages if your | |
| Enterprise Applications Install Nev Application | Step 2.1: Create applications are based on the Enterprise JavaBeans(TM) (EJB) 1.0 specification or the Java(TM) Servlet 2.2 specification. | |
| Resources | Scope | |
| = Schedulers | database class path cells:PrakkyNode02Cellinodes:PrakkyNode02:servers:server1 | |
| Object pool managers | information + Data source name | |
| ⊞ JMS | Step 3: Enter bharosaJNDI | |
| E JDBC | database specific properties for the + JNDI name | |
| JDBC Providers | data source bharosaJNDI | |
| Data sources | Step 4: Summary Component-managed authentication alias and XA recovery authentication alias | |
| Paraurra Adapterr | Select a componentimenanced authentication aliar. The selected authentication aliar uill | |
| E Asunchronour hears | also be set as the XA recovery authentication alias if your JDBC Provider supports XA. If | |
| E Cache instances | you choose to create a new J2C authentication alias, the vizard vill be canceled. | |
| ⊞ Mail | (none) 💌 | |
| ⊞ URL | | |
| Resource Environment | | |
| E Security | Next Cancel | |
| Secure administration, applications, and infrastructure | | |
| SSL certificate and key management | | |
| Bus Security | | |
| Environment | | |
| Virtual Hosts | | |
| Update global Web server plug-in configuration Web Schere Variables | | |
| Shared Libraries | | |
| Replication domains | | |
| Naming | | |
| Name Space Bindings | | |
| CORBA Naming Service Users | | |
| CORBA Naming Service Groups | | |
| System administration | | |
| ■ Users and Groups | | |
| Monitoring and Tuning | | |
| Troubleshooting | | |
| Done | | |

4. In the Select JDBC provider screen, select Create new JDBC provider.

| Integrated Solutions Console Welcome | | Help Logout IBM. |
|---|--|---|
| View: All tasks | Data sources | Close page |
| = Welcome | freate a data source | - Help - |
| Guided Activities | | Field belo |
| Servers | Create a data source | For field help information, |
| Application servers Web servers WebSphere MQ servers | Step 11 Enter basic data source information Specify a JDBC provider to support this data source. | select a field label or list marker when the help cursor appears. |
| P Applications | → Step 2: Select JDBC | |
| Enterprise Applications Install New Application | provider Create new JDBC provider Step 2.11 Create new JDBC provider | |
| Preseverse Solution Sol | Step 2 2 Gate database database stormation Step 3 2 Gate database Step 4 Suprementation Step 4 Suprementation Suprementation Step 4 Suprementation Suprementation Step 4 Suprementation Sup | |
| Security Security Security Substitution, applications, and infrastructure Substitutions Substitution Substit | | |
| Environment Virtual Heat Vi | | |

 In the Create new JDBC provider screen, provide the following information: Database type: Oracle
 Provider type: Oracle JDBC Driver
 Implementation type: Connection pool data source
 Name: Oracle JDBC Driver
 Description: Oracle JDBC Driver

| Integrated Solutions Console Welcome | | Help 1 | .ogout IBM. |
|---|-------|--|---------------------------|
| View: All tasks | ^ | ata sources | Close page |
| = Welcome | ' I I | reate a data source | Help - |
| Guided Activities | | | Field help |
| E Servers | | Create a data source | The required display name |
| Application servers Web servers WebSphere MQ servers | | Step 1: Enter basic data source information Set the basic configuration values of a JDBC provider, which encapsulates the specific vendor JD | for the resource. |
| Applications | | Step 2: Select JDBC and the description classes that are required to access the database. The vizard tills in the n and the description fields, but you can type different values. | ame |
| Enterprise Applications Install New Application | | → Step 2.1: Create new 3DBC provider cells:PrakkyNode02Cell:nodes:PrakkyNode02:servers:server1 | |
| Resource Scholars Scholars Scholars Mit Charles Mit Charles Mit Charles Scholars Scho | н | Step 2.3 Grav datase species datases proces datases proces datases proces data source Step 4: Summary Step 4: Summary Consector pool data source (m) Consector pool data source (m) | |
| SSL certificate and key management Bus Security | | Previous Next Cancel | |
| | | | |
| The second | | | |
| H Iroubleshooting | × | | |
| Done | | | |

 In the database specific properties for the data source screen, specify the directory location for "ojdbc14.jar" which is saved as a WebSphere variable \${ORACLE_JDBC_DRIVER_PATH}



7. In the Summary screen, click Finish.



Setting Up Logging

Adaptive Risk Manager Offline uses log4j mechanism for logging. You can configure the log output for different levels through the log4j.xml properties. You will not need to restart the application server for changes to take effect.

Possible levels include

- DEBUG
- INFO
- WARN
- ERROR
- FATAL

The recommended default level is WARN.

For more information on the various parameters, refer to <sample.log4j.xml> in the Adaptive Risk Manager Offline's deployment directory.

Edits to Log4j.xml Parameters

To edit log4j.xml parameters,

- 1. Make a copy of <log4j.xml.sample>, which is located in the deployment directory of Adaptive Risk Manager Offline.
- 2. Update the log output path for each appender.
- 3. Search for <param name="File" value=" and change the file path for the logs appropriately.
- 4. Configure SMTP for emailing warnings and errors (optionally). Refer to the SMTP sample below.

Ensure that you make a backup copy of the log4j.xml file in the event that a patch is applied to the installation and you need to perform a restore.

Commonly Edited log4j.xml Parameters

A list of commonly edited log4j.xml parameters is shown below. If you want your log files to be created in a non-default location, please specify the path for log file location. Refer to the highlighted text below.

<appender name="FILE" class="org.apache.log4j.DailyRollingFileAppender">

<param name="File" value="c:/bharosa_server_package/bharosa_logs</pre>

/fahost_log.log " />

<param name="DatePattern" value="'.'yyyy-MM-dd-HH" />
<layout class="org.apache.log4j.PatternLayout">
<param name="ConversionPattern" value="%d %-5p
[app=%log4j.webapp.name%] [%t] %c - %m\n" />
</layout>

```
</appender>
```

```
<appender name="RulePerformance"</pre>
class="org.apache.log4j.DailyRollingFileAppender">
<param name="File" value="logs/Bharosa RulePerformance.log" />
<param name="DatePattern" value="'.'yyyy-MM-dd-HH" />
<layout class="org.apache.log4j.PatternLayout">
<param name="ConversionPattern" value="%d %-5p [%t] %c -</pre>
%m\n" />
</layout>
</appender>
<appender name="RulesLog"</pre>
class="org.apache.log4j.DailyRollingFileAppender">
<param name="File" value="c:/bharosa server package/bharosa logs</pre>
Bharosa RulesLog.log" />
<param name="DatePattern" value="'.'yyyy-MM-dd-HH" />
<layout class="org.apache.log4j.PatternLayout">
<param name="ConversionPattern" value="%d %-5p [%t] %c - %m\n" />
</layout>
</appender>
<logger name="SystemRulesTest_Performance">
<appender-ref ref=" RulePerformance " />
</logger>
```

```
<logger name="RuleLog">
<appender-ref ref="RulesLog" />
</logger>
```

To change the level of logging, update the value in <level value >. Refer to the example below:

```
<logger name="com.bharosa">
<level value="WARN" />
</logger>
```

SMTP sample

The SMTPHost can be an IP address or a hostname.

```
logs
```

```
Declare the SMTPAppender
Email appender commented
<appender name="EMAIL" class="org.apache.log4j.net.SMTPAppender">
     <param name="BufferSize" value="512" />
     <param name="SMTPHost" value="localhost" />
     <param name="From" value="support@bharosa.com" />
     <param name="To" value="support@bharosa.com" />
     <param name="Subject" value="[app=fauio]Log4j:Bharosa" />
     <layout class="org.apache.log4j.PatternLayout">
         <param name="ConversionPattern"</pre>
            value="[%d{ISO8601}]%n%n%-5p%n%n%c%n%n%n%n%n" />
     </layout>
     <filter class="org.apache.log4j.varia.LevelRangeFilter">
             <param name="LevelMin" value="WARN"/>
             <param name="LevelMax" value="FATAL"/>
     </filter>
</appender>
```

Fraud Detection

```
Email Appender for sending emails for alerts generated

Alert Email appender commented

<appender name="ALERT_EMAIL"

class="org.apache.log4j.net.SMTPAppender">

<param name="BufferSize" value="512" />

<param name="SMTPHost" value="localhost" />

<param name="SMTPHost" value="localhost" />

<param name="From" value="vadmin" />

<param name="To" value="lenny@localhost" />

<param name="Subject" value="[app=fauio]Log4j:Bharosa" />

<layout class="org.apache.log4j.PatternLayout">

<param name="ConversionPattern"</p>
value="[%d{ISO8601}]%n%n%-5p%n%n%c%n%n%m%n%n" />
```

Configuring TopLink

Configuring Toplink with JDBC

TopLink converts Java to SQL in order to connect to the database.

To update the sessions.xml file located under its deployment directory.

- 1. Save a copy of the sessions.xml.sample reference file as sessions.xml and modify the following tags with the appropriate values for your platform.
 - <platform-class>
 - <driver-class>
 - <connection-url>
 - <user-name>

 - <connection-pools>

For performance reasons, make sure that the max-connections and the minconnections are set to the same value.

Note: The password must be a TopLink encrypted password.

2. Comment out all the reference to JDBC or database connectivity in the bharosa_server.properties file.

For information about the <platform-class> properties, refer to the "TopLink Reference" section.

Configuring TopLink with JNDI

To configure TopLink with JNDI,

- 1. Save a copy of the sessions.xml.sample reference file as sessions.xml and comment out the following tags:
 - <platform-class>
 - <driver-class>
 - <connection-url>
 - <user-name>
- 2. Then add the line, <datasource>jdbc/oarmDS</datasource>.

Configuring Server Properties

Database access, the scheduling of Adaptive Risk Manager Offline Reports, as well as other functions, can be configured for Adaptive Risk Manager Offline by updating the bharosa_server.properties file located under its deployment directory.

You do not need to restart the application for the changes to the bharosa_server.properties file to take effect.

- 1. Save a copy of the bharosa_server.properties.sample reference file as bharosa_server.properties and update the appropriate values for the following entries.
 - Adaptive Risk Manager Offline database access parameters
 - Adaptive Risk Manager Offline Reports directory
 - Adaptive Risk Manager Offline Scheduler
- 2. Comment out all the reference to JDBC or database connectivity in the bharosa_server.properties file.

For your reference, a sample is provided below.

```
# Database configuration
#Template start (Comment below lines if you are manually updating the
file) #
#bharosa.db.driver=oracle.jdbc.driver.OracleDriver
#bharosa.db.url=jdbc:oracle:thin:@localhost:1521:BRSADB
#bharosa.db.username=brsa_main
#bharosa.db.password=bharosa
#Template end#
```

where to save reports. Make sure the directory as been created. reports.save.dir=reports

```
# to activate the scheduler and set the fixed rate scan
vcrypt.reports.scheduler.activate=false
vcrypt.reports.scheduler.ratescan=60
```

Accessing Adaptive Risk Manager Offline

After the installation of Adaptive Risk Manager Offline and its components into your application server and configuring your property files, you are ready to launch Adaptive Risk Manager Offline.

 Log in to Adaptive Risk Manager Offline by accessing http://<localhost or IP>:<port>/<ARM_Offline_App_Name> using the credentials of an existing user.

In the example below, ruleAdmin1 was used to login.

| ORACLE' A | daptive Risk Manager | Offline |
|---|-------------------------------|------------|
| SINGLE SIGN ON > LOGIN | | |
| Login | | |
| lisername' | | |
| | | |
| Password: | | |
| | gin | |
| | | |
| 2. From the Queries r | nenu, select User . | |
| | 10110100010 | |
| ORACLE [®] Adaptiv | e Risk Manager <u>Offline</u> | |
| DASHBOARD QUERIES ADMIN MANAGE DATA HEI | LP LOGOUT | |
| | | |
| DEVICE | | |
| | Oracle Adaptive Acces | o Managor™ |
| SAVED REPORTS | Advanced security within | vour grasp |
| SAVED QUERIES | | Jeer Jierb |
| SCHEDULERS | | |
| 3. | | |
| Conner S | | |
| | | |
| _ | | |

3. In the left pane, click the **Run Query** button to get a report with zero or more records of all logins within the specified time range.

| QUERIES > USER > RECENT LOGINS |
|--|
| Query Types: Recent Logins Description: This report displays all logins within the specified time range. Instruction: Adjust the search criteria to find the desired logins. |
| Search Session 1d User 1d Login 1d Auth Status Auth Auth Auth Auth Login Time Promote Group Id Primary OS Provider Print Device 1d Location IP Ad Auth Auth Auth Auth Auth Auth Auth Auth |

Usage

Refer to the Adaptive Risk Manager Offline Administrator's Guide for instructions on

- The Standard Loading Process
- Creating a Load Configuration
- Defining a Session Set
- Starting the Load Process
- Risk Analysis

Customized Loading Process

Please refer to the Adaptive Risk Manager Offline Customized Loader Framework manual.

Appendix A - Adaptive Risk Manager Offline User Groups Reference

The Adaptive Risk Manager Offline users groups can access functionality in Adaptive Risk Manager Offline based on the roles they are assigned. The four main user groups are listed as:

- CSR
- CSR Manager
- Rule Administrators
- Auditors

The roles are used to set up user roles and groups in the Application Server container. This section summarizes the main user groups, their roles, functionalities and level of access in Adaptive Risk Manager Offline.

CSR User Group

The CSR user group has limited access.

| Adaptive Risk Manager Offline Functionality | Notes |
|--|-------|
| Dashboard - No access | |
| Queries - No access | |
| Admin - No access | |
| Audit - No access | |
| Customer Care - Access to search, open and create cases. There are no outward facing hyperlinks in any of the screens. Access to a limited list of actions. | |
| Help - Customer Care Guide | |
| Logout - Full access | |

CSR Manager User Group

The **CSR Manager** user group has access privileges of CSR and some other limited functionality elsewhere.

| CSR Manager Functionality | Notes |
|---|---|
| Dashboard - Full access | |
| Queries - No location based queries are allowed. See list of recommended queries below. No access to save/schedule reports. | The recommended queries are listed below. Queries / User Recent Logins Multiple Devices First Login Frequent Logins Multiple Failures Queries / Device Recent Logins New Devices Devices by User Multiple Successful Logins Users by Device Multiple Failures Multiple Failures Frequent Logins Cueries / Security Full Access |
| Admin - No Access | |
| Audit - No access | |
| Customer Care - Full access. Access through hyperlinks to detailed information. Bulk close ability on search cases screen. | Change Status New Pending Closed Change Severity Low Medium High |
| Help – Customer Care Guide and Dashboard/Reporting Guide. | |
| Logout – Full access | |

Rule Administrators User Group

The Rule Administrator user group has almost unlimited access.

| Rule Administrator Functionality | Notes |
|---|-------|
| Dashboard - Full access | |
| Queries - Full access | |
| Admin - Full access | |
| Audit - No access | |
| Customer Care - Full access | |
| Help - Customer Care Guide, Administration Guide, and Dashboard/Reporting Guide. | |
| Logout - Full access | |

Auditors User Group

The Auditors user group only has access to Audit functionality.

| Auditors Functionality | Notes |
|---------------------------|-------|
| Dashboard - No access | |
| Queries - No access | |
| Admin - No access | |
| Audit - Full access | |
| Customer Care - No access | |
| Help - No access | |
| Logout - Full access | |

Appendix B -TopLink Reference

<platform-class>

Platform specific property that you modify the TopLink <platform-class> tag with are listed below.

Oracle

Oracle - generic oracle.toplink.platform.database.OraclePlatform

Oracle9i (9.2.0.4) oracle.toplink.platform.database.oracle.Oracle9Platform

Oracle10g (10.1.0.3)

oracle.toplink.platform.database.oracle.Oracle10Platform features

Oracle10g (10.2.0.1)

oracle.toplink.platform.database.oracle.Oracle10Platform features

Oracle Times Ten In-Memory Database (6.0.2) oracle.toplink.platform.database.TimesTenPlatform

Microsoft

SQL Server 2005 oracle.toplink.platform.database.SQLServerPlatform

Encrypt Password Command

To encrypt a given password, use the following command:

```
java -classpath "vcrypt.jar;toplink.jar"
com.bharosa.vcrypt.utility.cmdline.BharosaCmdLine -toplink-password-
encrypt mydbpassword
```

TopLink Configuration Sample Code (JDBC)

For your reference, a sessions.xml file is provided below.

<?xml version="1.0" encoding="UTF-8" ?>

```
- <toplink-sessions version="10g Release 3 (10.1.3.1.0)"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

- <session xsi:type="server-session">
- <name>default</name>
- <event-listener-classes />
- <primary-project xsi:type="xml">BharosaTLMappings.xml</primary-project>
- <login xsi:type="database-login">

<platform-class>oracle.toplink.platform.database.oracle.Oracle10Platform</platformclass>

- <user-name>OARMLOAD</user-name>
- <password>bharosa</password>
- <sequencing>
- <default-sequence xsi:type="native-sequence">
- <name>Native</name>
- <preallocation-size>1</preallocation-size>
- </default-sequence>
- </sequencing>
- <driver-class>oracle.jdbc.driver.OracleDriver</driver-class>

<connection-url>jdbc:oracle:thin:@golan.hyperion.com:1521:brsadb</connection-url> </login>

- <connection-pools>
- <read-connection-pool>
- <name>ReadConnectionPool</name>
- <max-connections>5</max-connections>
- <min-connections>5</min-connections>
- </read-connection-pool>
- <write-connection-pool>
- <name>default</name>

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- <max-connections>25</max-connections>
- <min-connections>25</min-connections>
- </write-connection-pool>
- </connection-pools>
- <connection-policy />
- </session>
- </toplink-sessions>

TopLink Configuration Sample Code (JNDI)

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
- <toplink-sessions version="10g Release 3 (10.1.3.1.0)"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

- <session xsi:type="server-session">

```
<name>default</name>
```

```
<event-listener-classes />
```

```
<primary-project xsi:type="xml">BharosaTLMappings.xml</primary-project>
```

- <login xsi:type="database-login">

```
<platform-
```

```
class>oracle.toplink.platform.database.oracle.Oracle10Platform</platf
orm-class>
```

- <sequencing>

```
- <default-sequence xsi:type="native-sequence">
```

```
<name>Native</name>
```

```
<preallocation-size>1</preallocation-size>
```

```
</default-sequence>
```

```
</sequencing>
```

<datasource>jdbc/oarmDS</datasource>

</login>

```
<connection-policy />
```

```
</session>
```

```
</toplink-sessions>
```