

Oracle GL Adapter Data Source Creation
Oracle FLEXCUBE Universal Banking
Release 12.1.0.0.0
[October] [2015]

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1. Installation Steps

1.1 Prerequisite

- ✓ Ensure that the basic KERNEL Oracle GL Adapter Environment Setup is done.

[Please refer [ADOGL_Installation.doc.](#)]

1.2 Steps

1. Stop the application server.

If the application server is already running, then stop the application server as follows:

- ✓ For Windows
 - Go to the <APP_SERVER_HOME>/bin directory in the command prompt, type **stopServer.bat server1** and press enter.

2. Start the application server.

- ✓ For Windows
 - Go to the <APP_SERVER_HOME>/bin .i.e the application server installation directory in the command prompt, type **startServer.bat server1** and press enter.
 - This will start the server. Ensure that you get no error during start up. If the server start up is proper we shall get the following screen.

```
C:\Program Files\IBM\WebSphere\AppServer\bin>startServer.bat server1
ADMU0116I: Tool information is being logged in file C:\Program
Files\IBM\WebSphere\AppServer\profiles\default\logs\server1\startServer.log
ADMU0128I: Starting tool with the default profile
ADMU3100I: Reading configuration for server: server1
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server server1 open for e-business; process id is 1852
```

3. Open the administrative console of the application server

- ✓ Open an internet browser and type the WAS Admin Console URL Address of the server.

e.g. <http://10.80.4.102:9060/ibm/console>

Where, 10.80.4.102 is the machine IP Address on which WAS is running.

- ✓ Enter a user id for launching the WAS Admin Console window.

The user id can be any name e.g.: KERNEL 7.2



4. Configure Security settings

Click on the Security option, expand the selection and click on Global security as shown in the screen shot below.

The screenshot displays the 'Global security' configuration page. On the left, a navigation pane shows a tree structure with 'Security' expanded to 'Global security'. The main content area is titled 'Global security' and includes a description: 'Specifies the global security configuration for a managed domain. The following steps are required to turn on security: 1. Configure the desired user registry listed under User registries and set its properties. 2. Select the Enable global security option on this panel. 3. Select the configured user registry type from the Active user registry option on this panel.' Below this is a 'Configuration' section with several settings:

- General Properties:**
 - Enable global security
 - Enforce Java 2 security
 - Enforce fine-grained JCA security
 - Use domain-qualified user IDs
 - Cache timeout: 600 seconds
 - Issue permission warning
 - Active protocol: CSI and SAS
 - Active authentication mechanism: Simple WebSphere Authentication Mechanism (SWAM)
 - Active user registry: Local OS (single, stand-alone server or sysplex and root administrator only)
 - Use the Federal Information Processing Standard (FIPS)
- User registries:**
 - [Custom](#)
 - [LDAP](#)
 - [Local OS](#)
- Authentication:**
 - Authentication mechanisms
 - Authentication protocol
 - JAAS Configuration
- Authorization:**
 - [Authorization providers](#)
- Additional Properties:**
 - [Custom properties](#)

Buttons at the bottom include 'Apply', 'OK', 'Reset', and 'Cancel'.

5. Following screen will be displayed. Expand JAAS Configuration and click on J2C Authentication data.

Global security

Specifies the global security configuration for a managed domain. The following steps are required to turn on security: 1. Configure the desired user registry listed under User registries and set its properties. 2. Select the Enable global security option on this panel. 3. Select the configured user registry type from the Active user registry option on this panel.

Configuration

General Properties

- Enable global security
- Enforce Java 2 security
- Enforce fine-grained JCA security
- Use domain-qualified user IDs
- * Cache timeout: seconds
- Issue permission warning
- Active protocol:
- Active authentication mechanism:
- Active user registry:
- Use the Federal Information Processing Standard (FIPS)

User registries

- [Custom](#)
- [LDAP](#)
- [Local OS](#)

Authentication

- Authentication mechanisms
- Authentication protocol
- JAAS Configuration
 - [Application logins](#)
 - [System logins](#)
 - J2C Authentication data

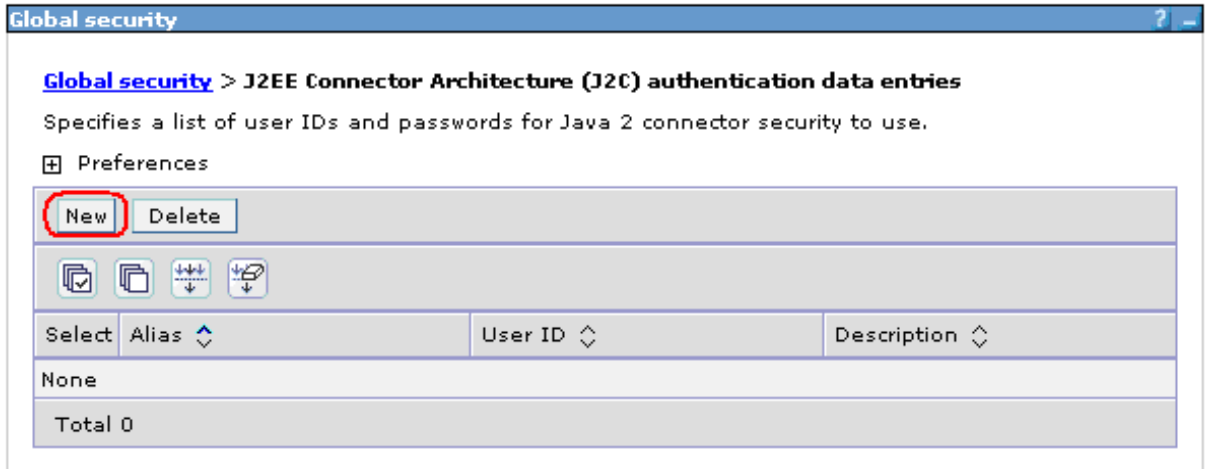
Authorization

- [Authorization providers](#)

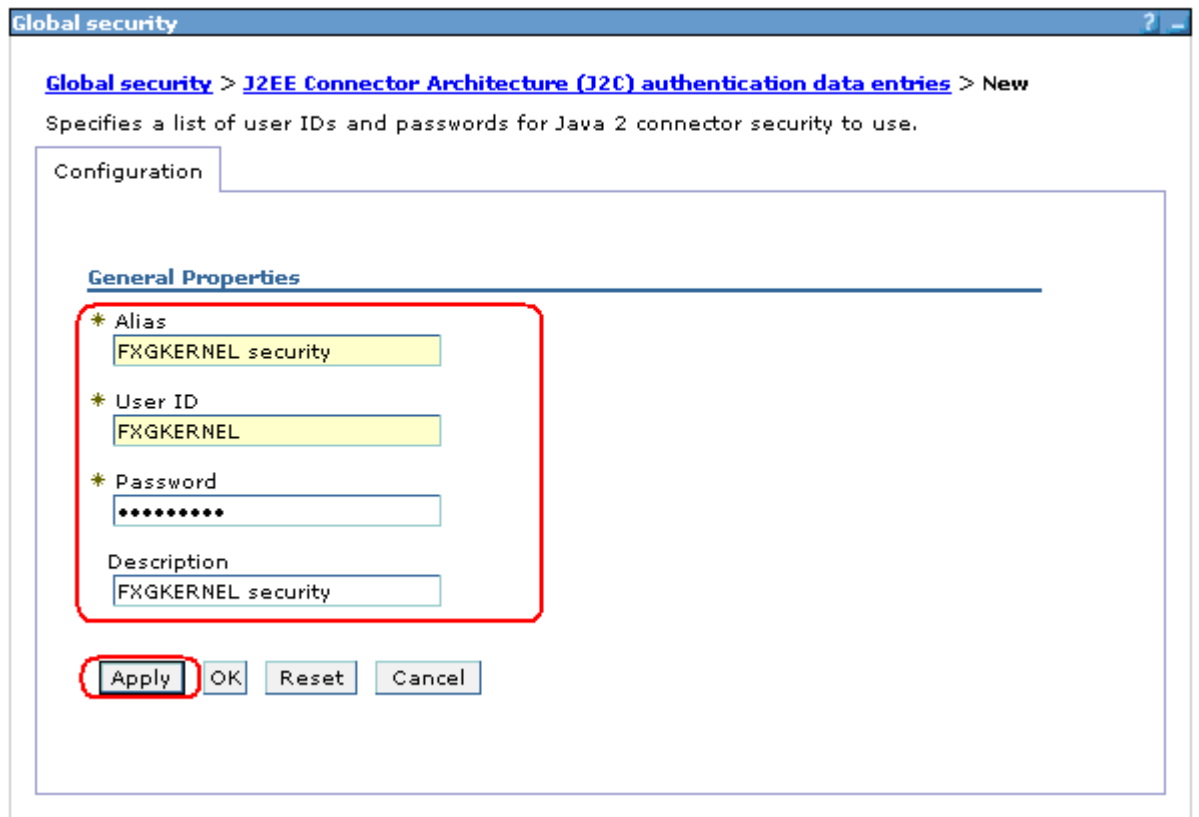
Additional Properties

- [Custom properties](#)

6. After clicking on J2C Authentication data following screen will be displayed. Click on New.



7. Following screen will be displayed. Enter the values as explained below and click on “Apply”.




Alias:	FXGKERNEL Security (It can be any name)
User ID:	FXGKERNEL (The database instance User Id)
Password:	FXGKERNEL (The password for this database instance)
Description:	(Its an optional field)


8. Following screen will be displayed. Click on “Save”.

Global security

Global security ? -

Messages

 Changes have been made to your local configuration. Click **Save** to apply changes to the master configuration.

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

[Global security](#) > [J2EE Connector Architecture \(J2C\) authentication data entries](#) > [cvrhp1455Node01/FXGKERNEL security](#)

Specifies a list of user IDs and passwords for Java 2 connector security to use.

Configuration

General Properties

* Alias
cvrhp1455Node01/FXGKERNEL security

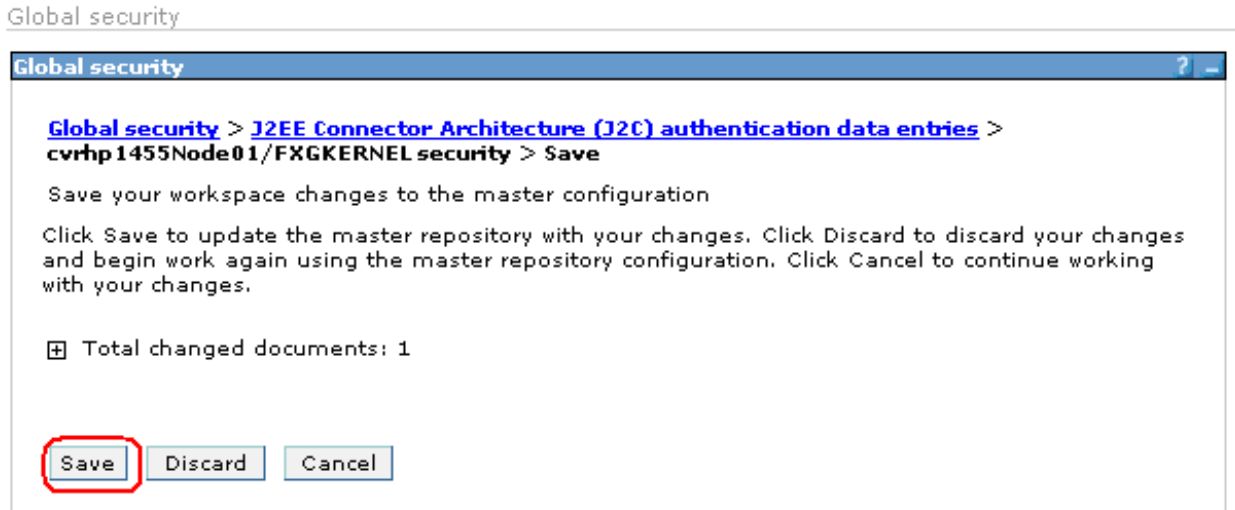
* User ID
FXGKERNEL

* Password

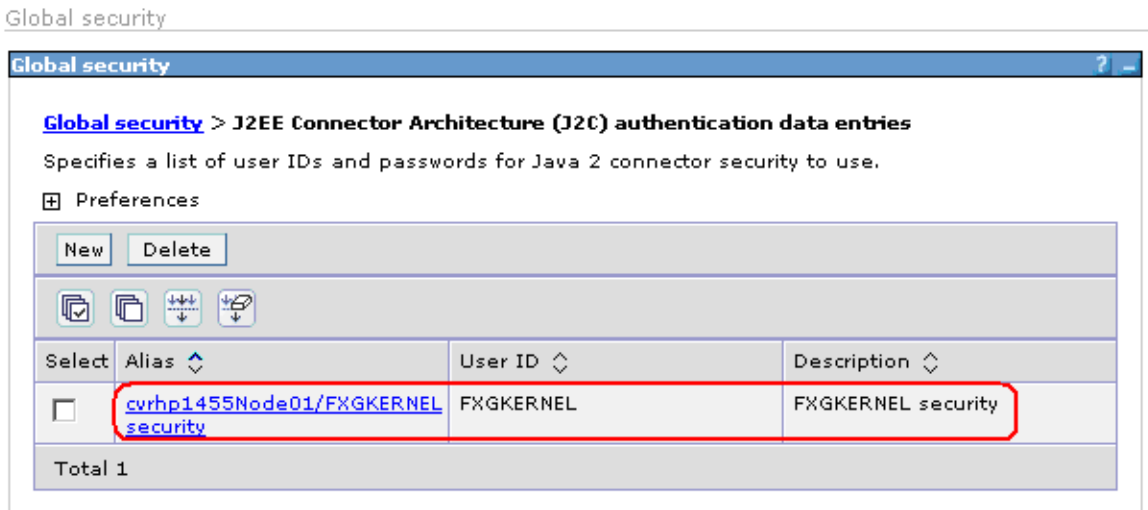
Description
FXGKERNEL security

Apply OK Reset Cancel

9. Following screen will be displayed. Click on “Save”.



10. Following screen will be displayed showing the J2C Authentication data as created in the above steps.



11. Click on the Resources tab to expand the selection and click on “JDBC Providers”

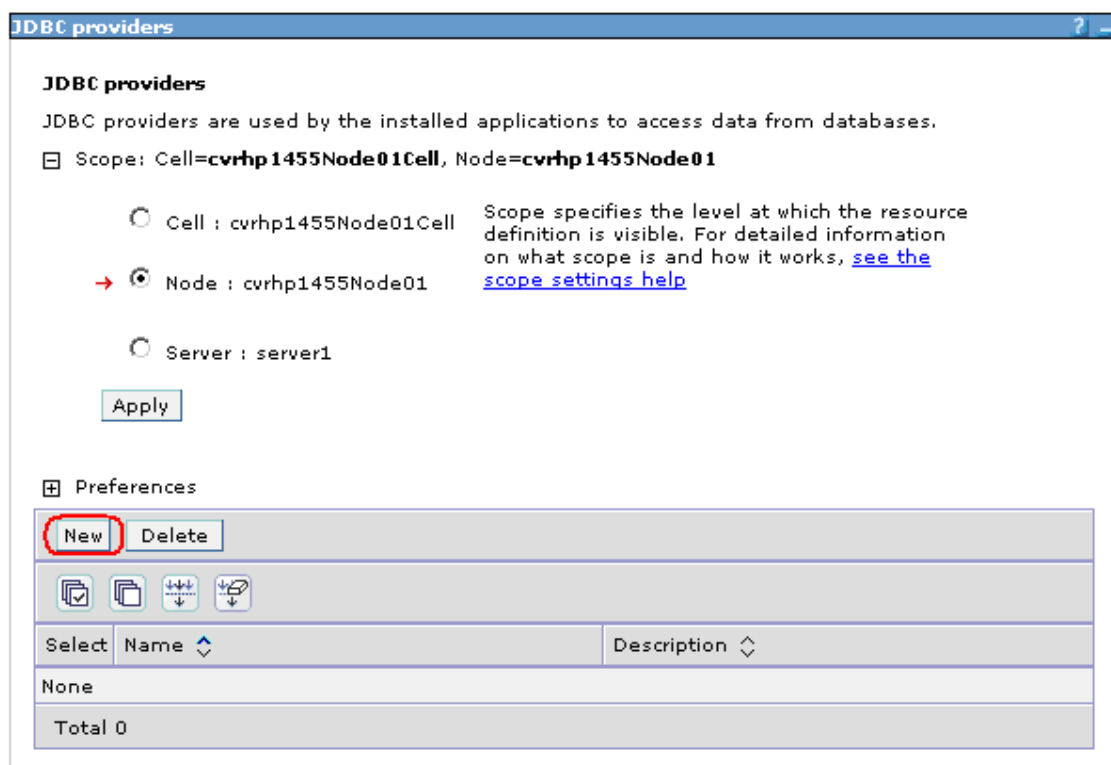
- ✓ Select Node option button and click on **Apply**

The screenshot displays the Oracle JMS console interface. On the left, a navigation tree is visible with the following items: Welcome, Guided Activities, Servers, Applications, Resources (highlighted), JMS Providers (with sub-items: JDBC Providers (highlighted), Resource Adapters, Asynchronous beans, Schedulers), Cache instances (with sub-items: Object pool managers, Mail Providers, URL Providers, Resource Environment Providers), Security, Environment, System administration, Monitoring and Tuning, Troubleshooting, and Service integration.

The main content area is titled "JDBC providers" and contains the following information:

- JDBC providers**
- JDBC providers are used by the installed applications to access data from databases.
- Scope: Cell=**cvrhp1455Node01Cell**, Node=**cvrhp1455Node01**
- Radio button options for scope:
 - Cell : cvrhp1455Node01Cell
 - Node : cvrhp1455Node01** (selected and highlighted with a red box)
 - Server : server1
- An **Apply** button (highlighted with a red box) is located below the radio buttons.
- A "Preferences" section with "New" and "Delete" buttons.
- A table with columns "Select", "Name", and "Description". The table is currently empty, showing "None" and "Total 0".

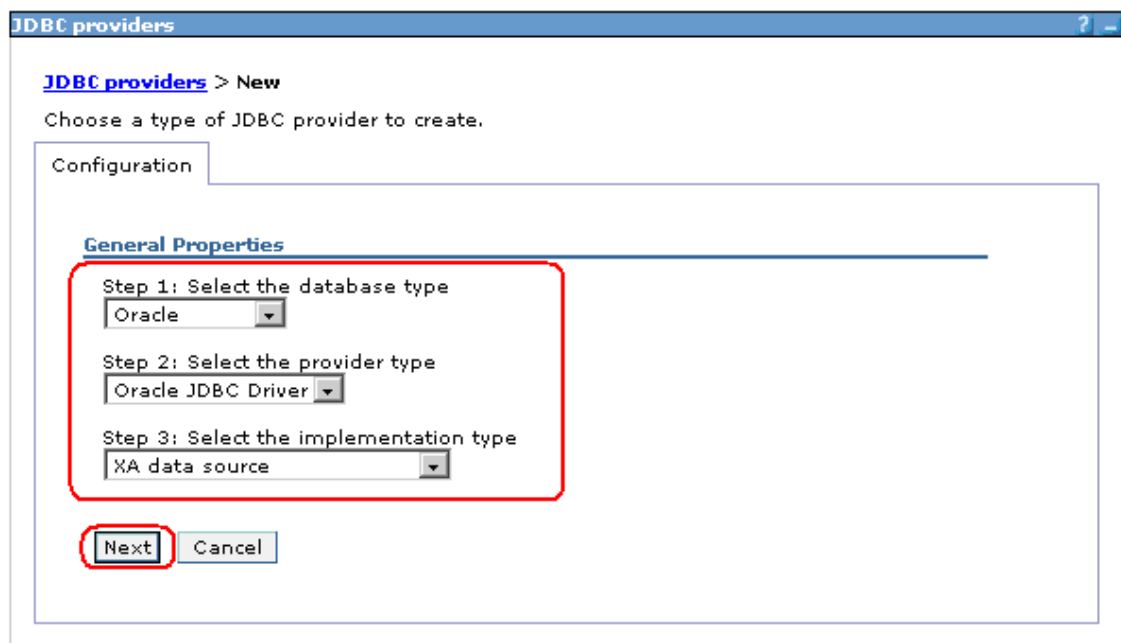
12. Click on “New” as shown to create a new JDBC provider



13. Following screen will be displayed.

- ✓ Select Oracle for database type
- ✓ Select Oracle JDBC Driver for the provider type
- ✓ Select XA data source for the implementation type.

Click **Next** after this is done.



14. Following screen will be displayed.

- ✓ Specify the classpath for ojdbc14.jar

e.g.: D:/Program Files/IBM/WebSphere/AppServer/lib/ext/ojdbc14.jar

- ✓ Click on **Apply**.

[JDBC providers](#) > New

JDBC providers are used by the installed applications to access data from databases.

Configuration

General Properties

* Scope
cells:cvrhp1455Node01Cell:nodes:cvrhp1455Node01

* Name
FXGKERNEL JDBC Provider

Description
Oracle JDBC Driver (XA)

Class path
D:/Program Files/IBM/WebSphere/AppServer/lib/ext/ojdbc14.jar

Native library path

* Implementation class name
oracle.jdbc.xa.client.OracleXADataSource

Apply OK Reset Cancel

The additional properties will not be available until the general properties for this item are saved.

Additional Properties

- Data sources
- Data sources (Version 4)

15. Following screen will be displayed. Click on “Data sources”

JDBC providers

Messages

⚠ Changes have been made to your local configuration. Click **Save** to apply changes to the master configuration.

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

JDBC providers > **FXGKERNEl JDBC Provider**

JDBC providers are used by the installed applications to access data from databases.

Configuration

General Properties

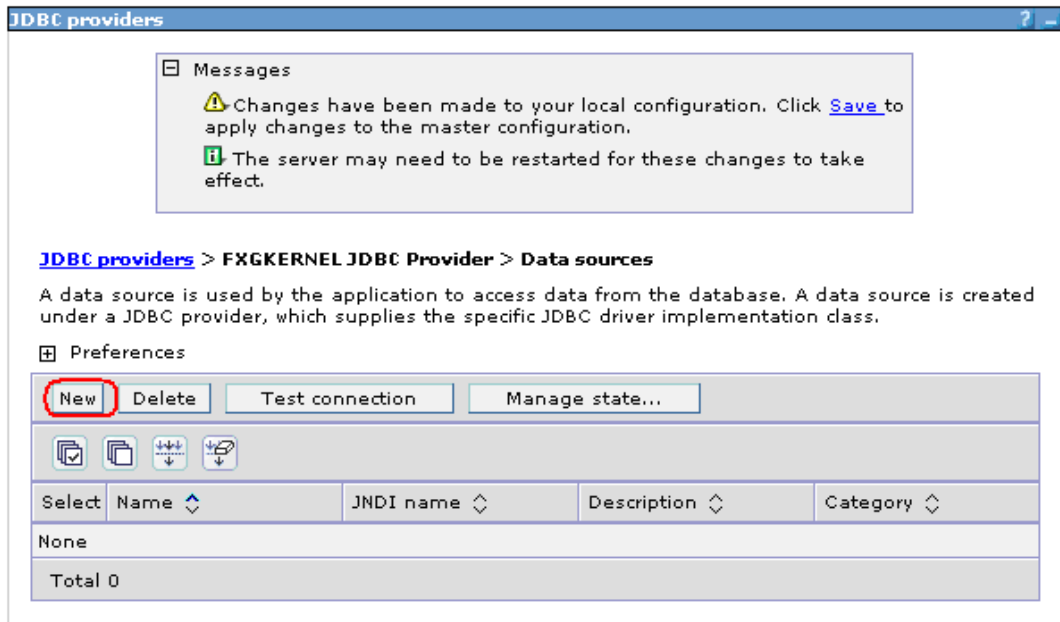
- * Scope: cells:cvrhp1455Node01Cell:nodes:cvrhp1455Node01
- * Name: FXGKERNEl JDBC Provider
- Description: Oracle JDBC Driver (XA)
- Class path: D:/Program Files/IBM/WebSphere/AppServer/lib/ext/ojdbc14.jar
- Native library path:
- * Implementation class name: oracle.jdbc.xa.client.OracleXADataSource

Additional Properties

- Data sources
- Data sources (Version 4)

Apply OK Reset Cancel

16. Following screen will be displayed. Click on “New”



17. Following screen will be displayed. Click on “New”

- ✓ Enter data as explained below

Name:	ADOGL_DS
JNDI Name:	ADOGL_DS
Data store Helper class name	Choose Oracle 10g Data store Helper
Component-managed authentication alias	cvrhp1455Node01/FXGKERNEL Security (Select the J2C authentication data we had created in step 8)
URL	jdbc:oracle:thin:@10.80.50.218:1522:FLEXTTEST (Here we are connecting to FLEXTTEST.WORLD)

Note: The name of Datasource must be same as the database instance messaging schema nam. In case where distributed business schema is different from messaging schema we have to create another datasource for business schem.

- ✓ Click on Apply

JDBC providers

JDBC providers

Messages

- ⚠ Changes have been made to your local configuration. Click [Save](#) to apply changes to the master configuration.
- ℹ The server may need to be restarted for these changes to take effect.
- ℹ Additional Properties for this object will not be available to edit until its general properties are applied by clicking on either Apply or OK.

[JDBC providers](#) > [FXGKERNEL JDBC Provider](#) > [Data sources](#) > [New](#)

A data source is used by the application to access data from the database. A data source is created under a JDBC provider, which supplies the specific JDBC driver implementation class.

Configuration

General Properties

- * Scope
cells:cvrhp1455Node01Cell:nodes:cvrhp1455Node01
- * Name
ADOGL_DS
- JNDI name
ADOGL_DS
- Use this Data Source in container managed persistence (CMP)
- Description
New JDBC Datasource
- Category
- Data store helper class name**
 - Select a data store helper class
 - Data store helper classes provided by WebSphere Application Server
Oracle9i and prior data store helper

The additional properties will not be available until the general properties for this item are saved.

Additional Properties

- Connection pool properties
- WebSphere Application Server data source properties
- Custom properties

Related Items

- J2EE Connector Architecture (J2C) authentication data entries

Data store helper class name

Select a data store helper class

Data store helper classes provided by WebSphere Application Server

- Oracle9i and prior data store helper
(com.ibm.websphere.rsadapter.OracleDataStoreHelper)
- Oracle10g data store helper**
(com.ibm.websphere.rsadapter.Oracle10gDataStoreHelper)

Specify a user-defined data store helper

Enter a package-qualified data store helper class name

Component-managed authentication alias

Component-managed authentication alias

cvrhp1455Node01/FXGKERNEL security ▼

Authentication alias for XA recovery

Use component-managed authentication alias

Specify:

Container-managed authentication

Container-managed authentication alias (deprecated in V6.0, use resource reference authentication settings instead)

(none) ▼

Mapping-configuration alias (deprecated in V6.0, use resource reference authentication settings instead)

(none) ▼

Oracle data source properties

* URL

jdbc:oracle:thin:@10.80.50.218:1522:FLEXTEST

Apply

OK

Reset

Cancel

18. Following screen will be displayed. Click on “Save”.

JDBC providers

JDBC providers

Messages

⚠ Changes have been made to your local configuration. Click **Save** to apply changes to the master configuration.

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

[JDBC providers](#) > [FXGKERNEL JDBC Provider](#) > [Data sources](#) > [ADOGL_DS](#)

A data source is used by the application to access data from the database. A data source is created under a JDBC provider, which supplies the specific JDBC driver implementation class.

Configuration

Test connection

General Properties

* Scope
cells:cvrhp1455Node01Cell:nodes:cvrhp1455Node01

* Name
ADOGL_DS

JNDI name
ADOGL_DS

Use this Data Source in container managed persistence (CMP)

Description
New JDBC Datasource

Category

Data store helper class name

Select a data store helper class

Data store helper classes provided by WebSphere Application Server

Oracle9i and prior data store helper

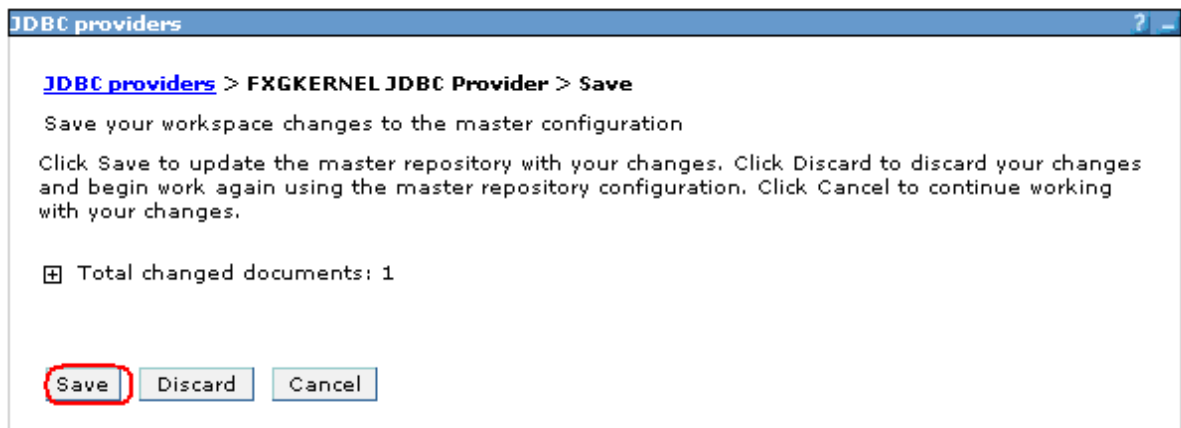
Additional Properties

- Connection pool properties
- WebSphere Application Server data source properties
- Custom properties

Related Items

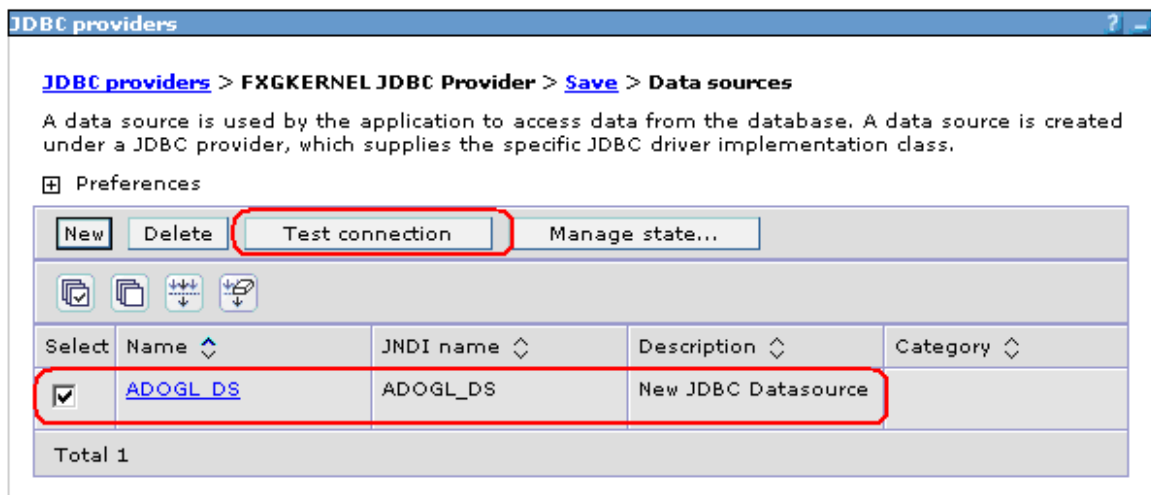
- J2EE Connector Architecture (J2C) authentication data entries

19. Following screen will be displayed. Click on “Save”.



20. Following screen will be displayed.

- ✓ Click on the checkbox against the Data Source as created in the above steps.
- ✓ Click on Test connection



21. Following screen will be displayed, indicating the status of Test Connection.

JDBC providers

JDBC providers

Messages

Test connection for data source ADOGL_DS on server server1 at node cvrhp1455Node01 was successful.

[JDBC providers](#) > [FXGKERNEL JDBC Provider](#) > [Save](#) > [Data sources](#)

A data source is used by the application to access data from the database. A data source is created under a JDBC provider, which supplies the specific JDBC driver implementation class.

Preferences

New Delete Test connection Manage state...

Icons: Copy, Paste, Refresh, Save

Select	Name	JNDI name	Description	Category
<input type="checkbox"/>	ADOGL_DS	ADOGL_DS	New JDBC Datasource	

Total 1



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