Oracle GL Adapter Data Source Creation
Oracle FLEXCUBE Universal Banking
Release 12.2.0.0.0
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Table of Contents

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
```

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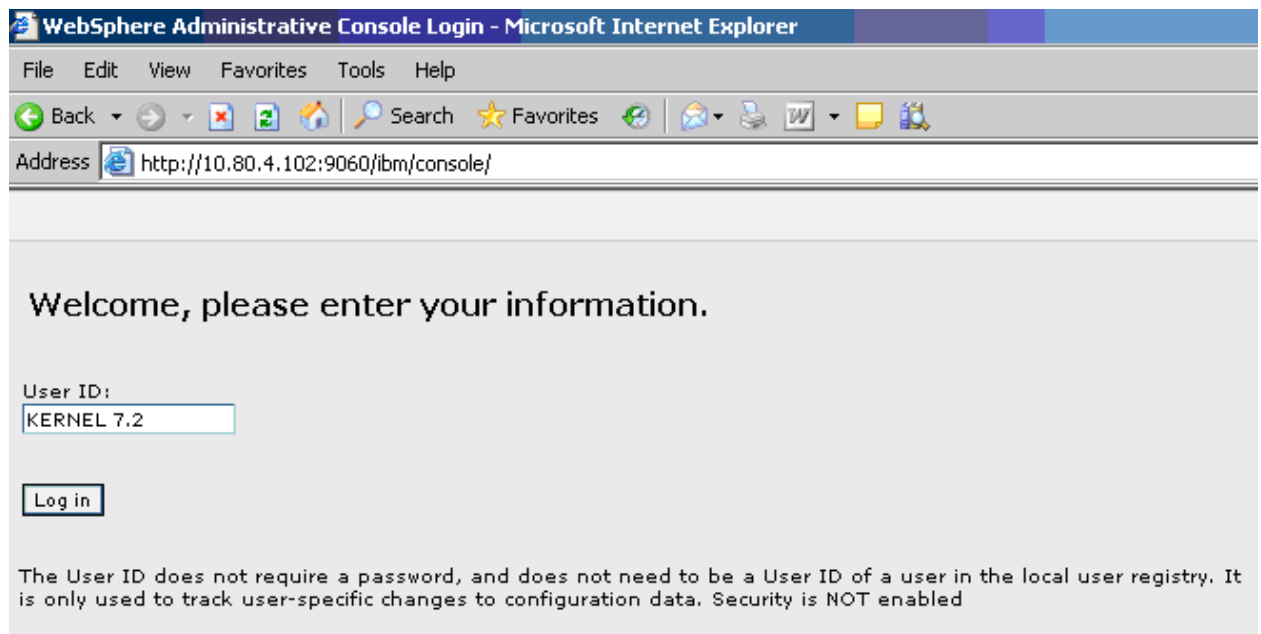**3. Open the administrative console of the application server**

✓ 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.

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

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Global security   ? _

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
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)

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

User registries

▪ Custom
▪ LDAP
▪ Local OS

Authentication

⊞ Authentication mechanisms

⊞ Authentication protocol

⊟ JAAS Configuration

▪ Application logins
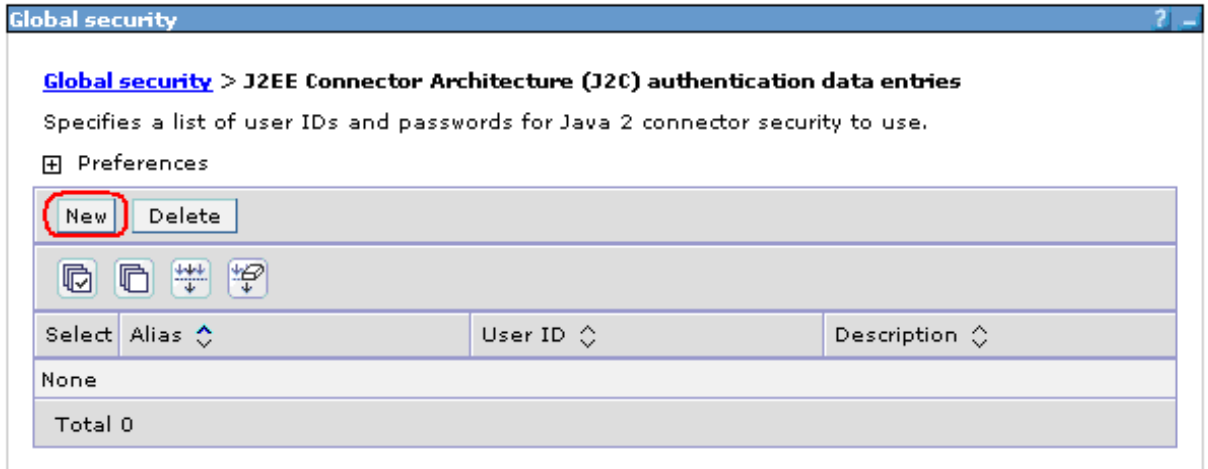
▪ System logins

▪ J2C Authentication data
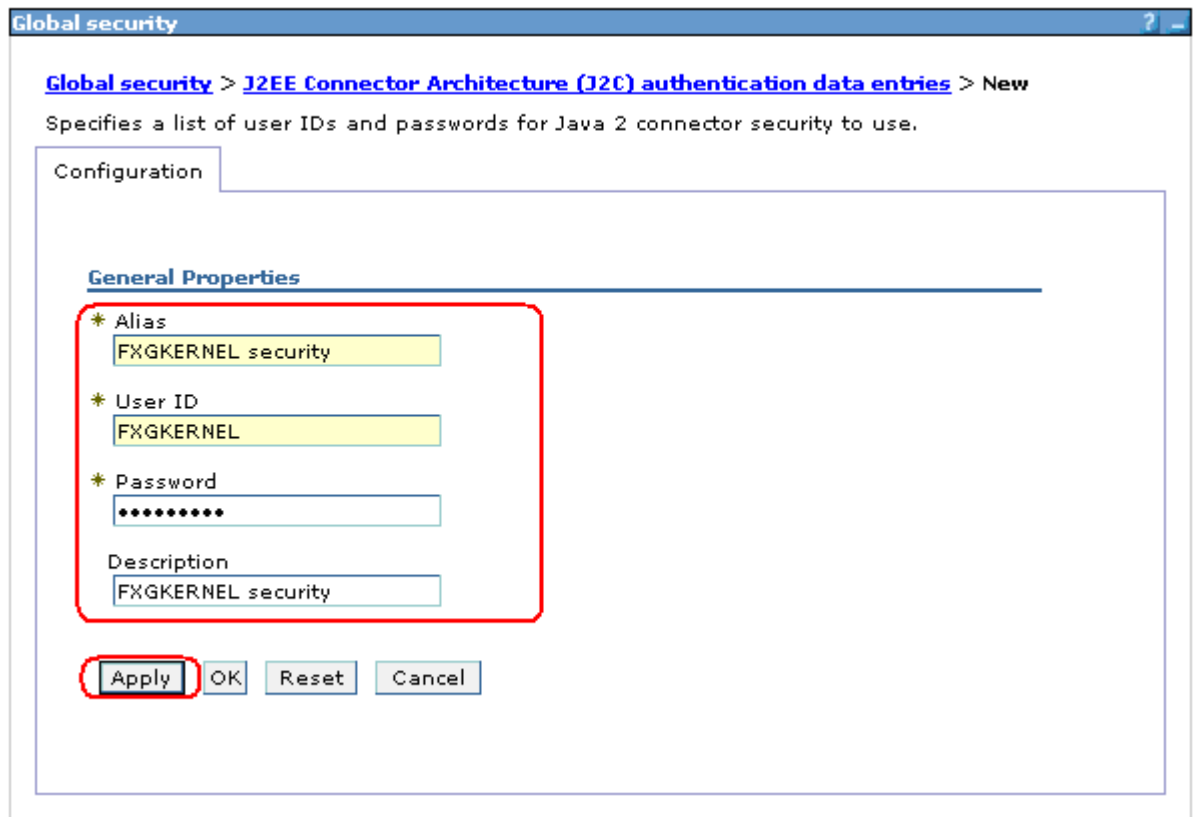
Authorization

▪ Authorization providers

Additional Properties

▪ Custom properties

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

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Global security

Global security   ? _

Global security > J2EE Connector Architecture (J2C) authentication data entries

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

⊞ Preferences

[New] [Delete]

[⊡] [⊡] [⊹] [⊹]

Select	Alias ◇	User ID ◇	Description ◇
None			
Total 0			

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

Global security

Global security   ? _

Global security > J2EE Connector Architecture (J2C) authentication data entries > New

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

Configuration

General Properties

✱ Alias
[FXGKERNEL security]
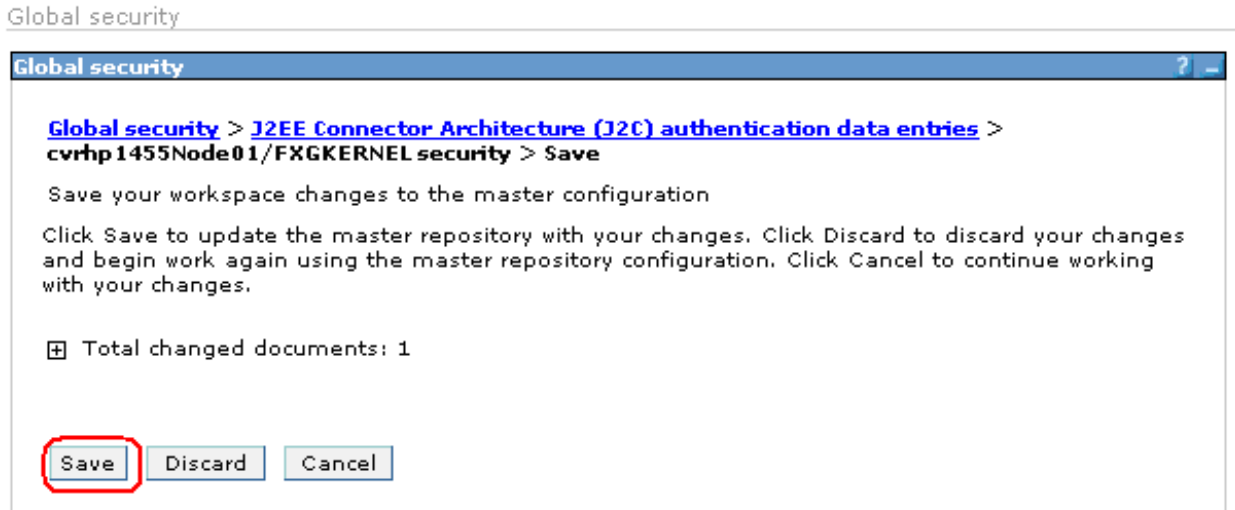
✱ User ID
[FXGKERNEL]

✱ Password
[••••••••]

Description
[FXGKERNEL security]

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

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

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9. **Following screen will be displayed. Click on "Save".**

Global security

Global security   ? _

Global security > J2EE Connector Architecture (J2C) authentication data entries > cvrhp1455Node01/FXGKERNEL security > Save

Save your workspace changes to the master configuration

Click Save to update the master repository with your changes. Click Discard to discard your changes and begin work again using the master repository configuration. Click Cancel to continue working with your changes.

⊞ Total changed documents: 1

[Save]   [Discard]   [Cancel]

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

Global security

Global security   ? _

Global security > J2EE Connector Architecture (J2C) authentication data entries

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

⊞ Preferences

[New]   [Delete]

Select	Alias ◇	User ID ◇	Description ◇
☐	cvrhp1455Node01/FXGKERNEL security	FXGKERNEL	FXGKERNEL security
Total 1			
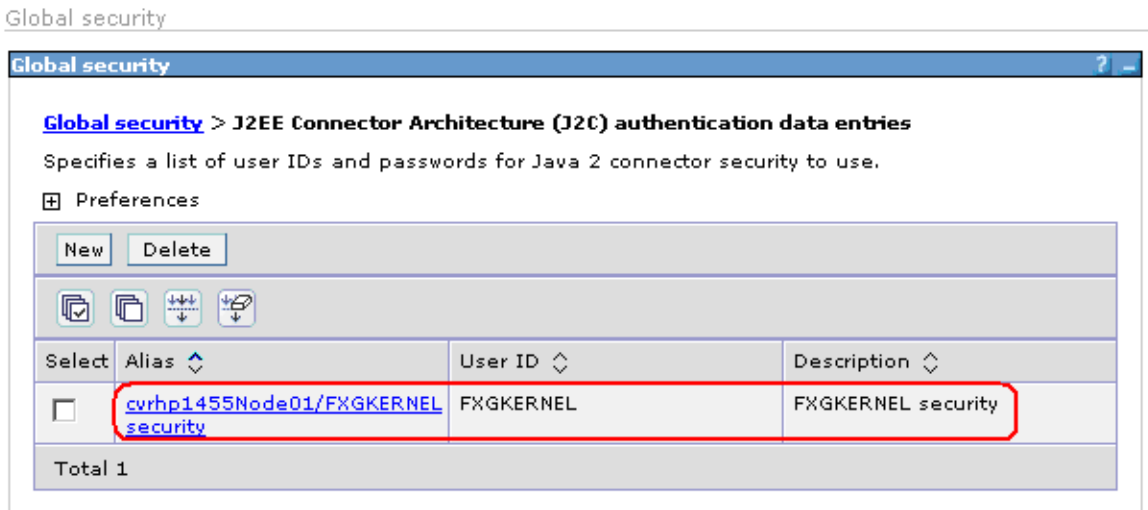
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11. Click on the Resources tab to expand the selection and click on "JDBC Providers"

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

12. Click on "New" as shown to create a new JDBC provider
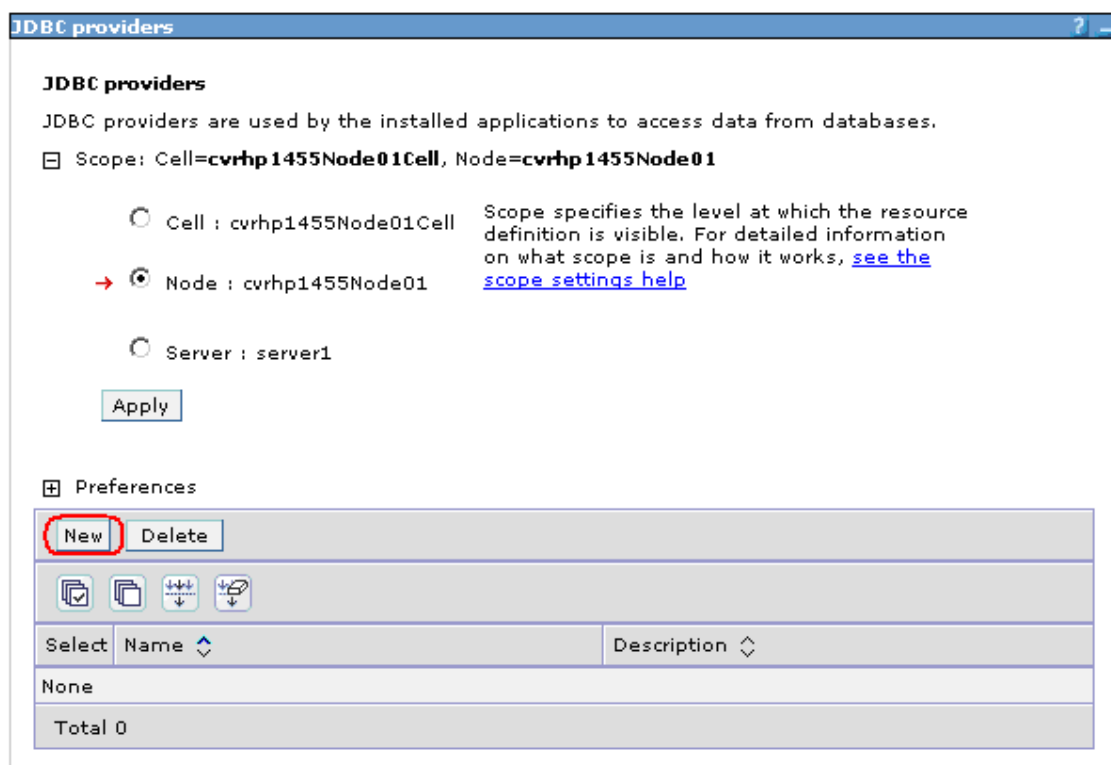
JDBC providers

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.
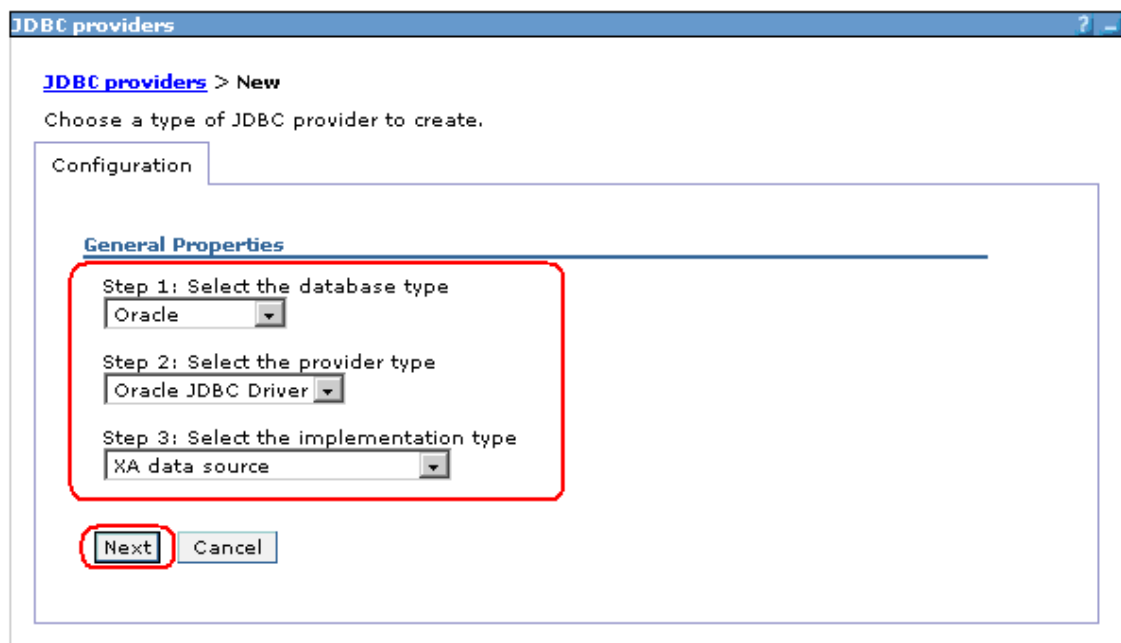
14. Following screen will be displayed.

✓   Specify the classpath for ojdbc14.jar

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

✓   Click on **Apply**.

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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
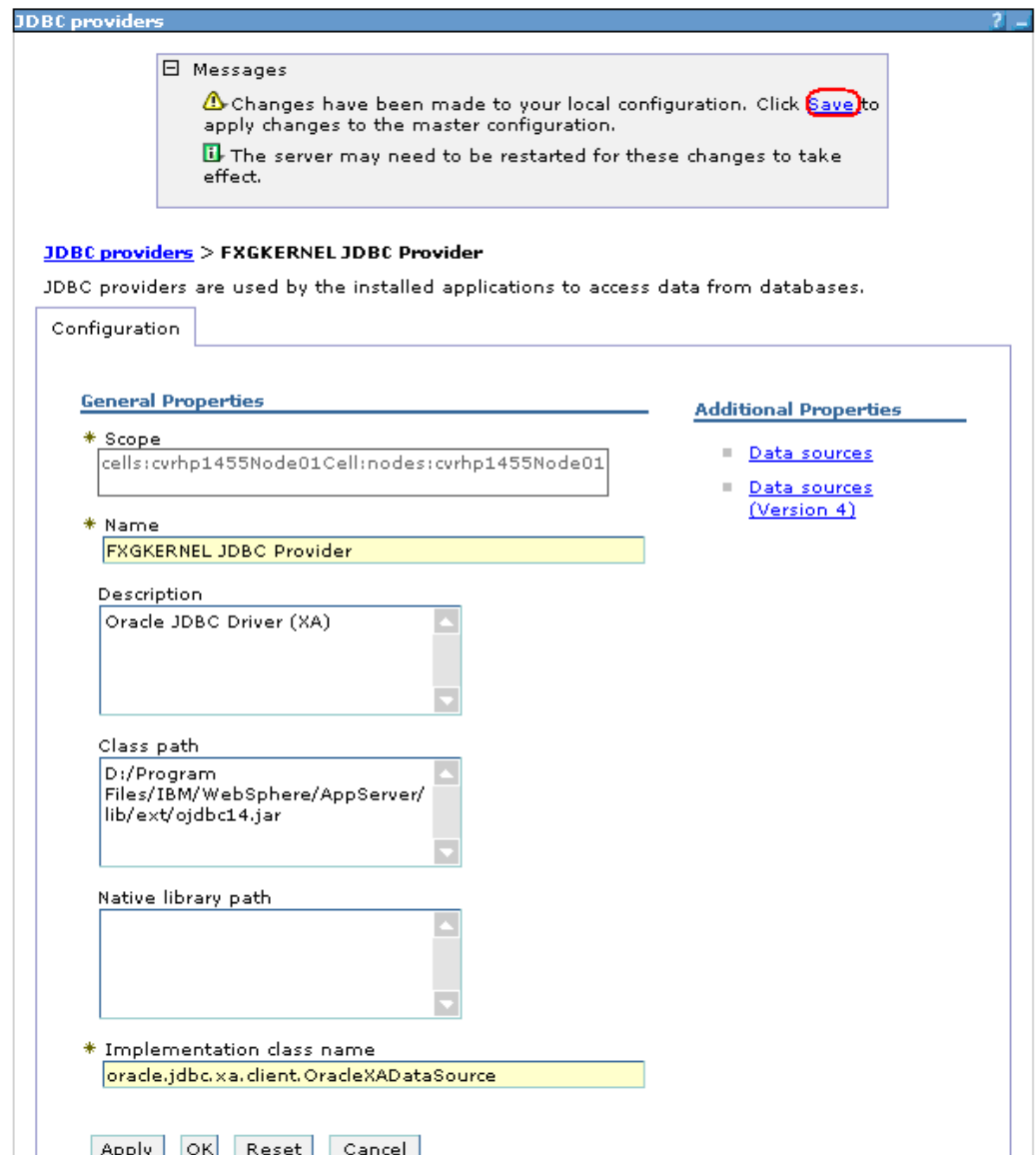
16. Following screen will be displayed. Click on "New"

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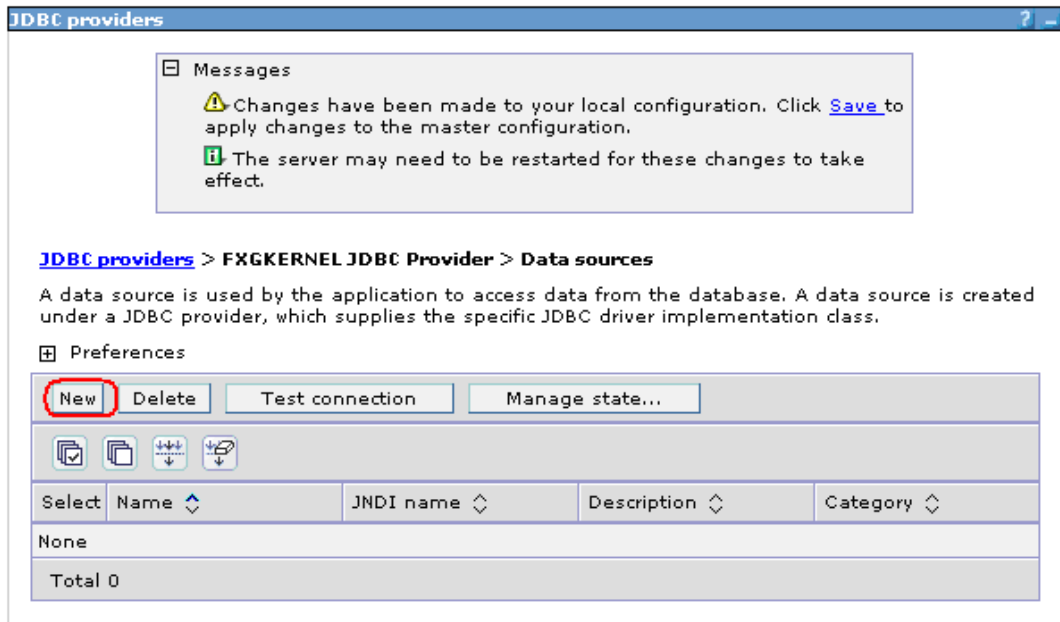
17. Following screen will be displayed. Click on "New"

✓ 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:FLEXTEST (Here we are connecting to FLEXTEST.WORLD)

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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

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".

19. Following screen will be displayed. Click on "Save".
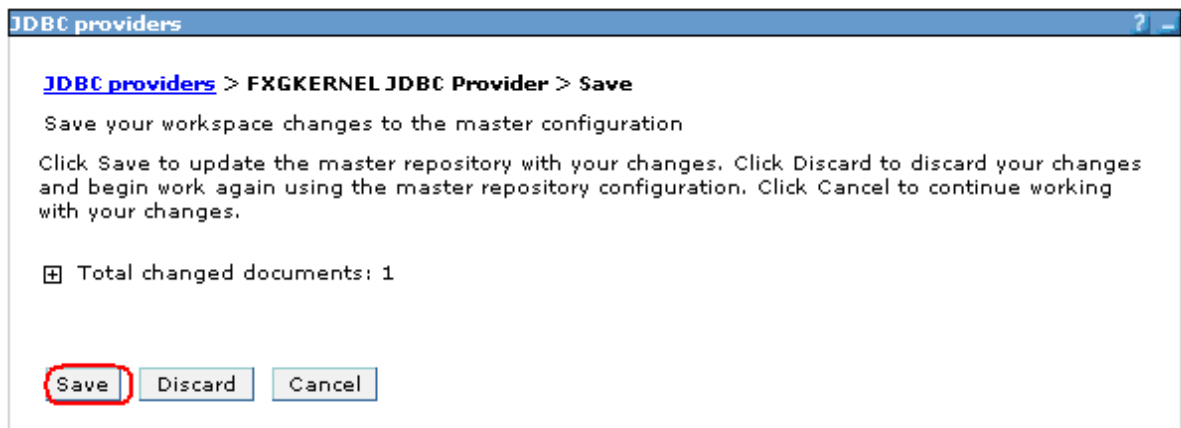
20. Following screen will be displayed.

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

✓ Click on Test connection

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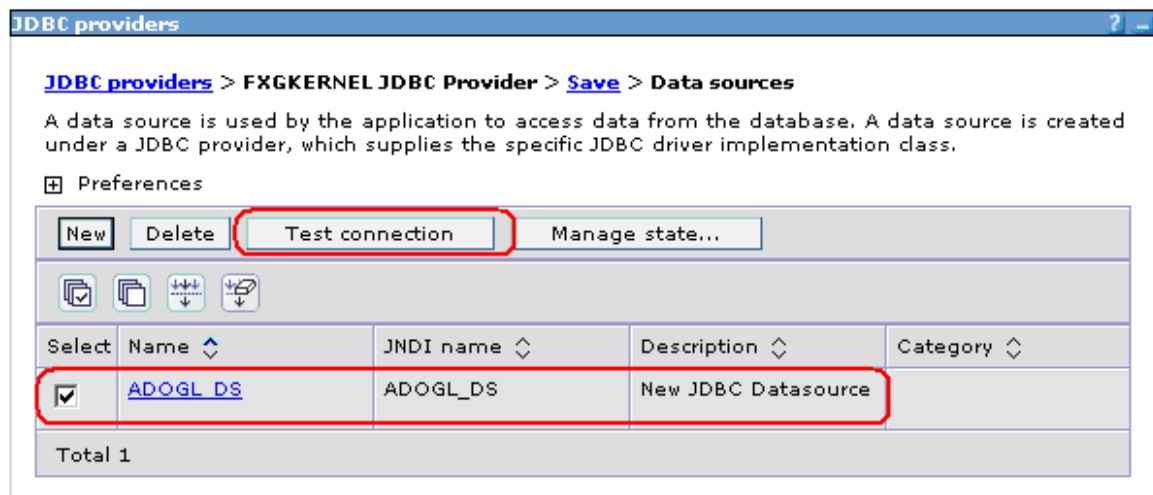
21. Following screen will be displayed, indicating the status of Test Connection.

JDBC providers

JDBC providers

⊟ Messages

    ℹ️ 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... |

Select	Name ⬍	JNDI name ⬍	Description ⬍	Category ⬍
☐	ADOGL_DS	ADOGL_DS	New JDBC Datasource	

Total 1

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