

Oracle GL Adapter Data Source Creation  
Oracle FLEXCUBE Universal Banking  
Release 12.87.06.0.0  
[May] [2020]

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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

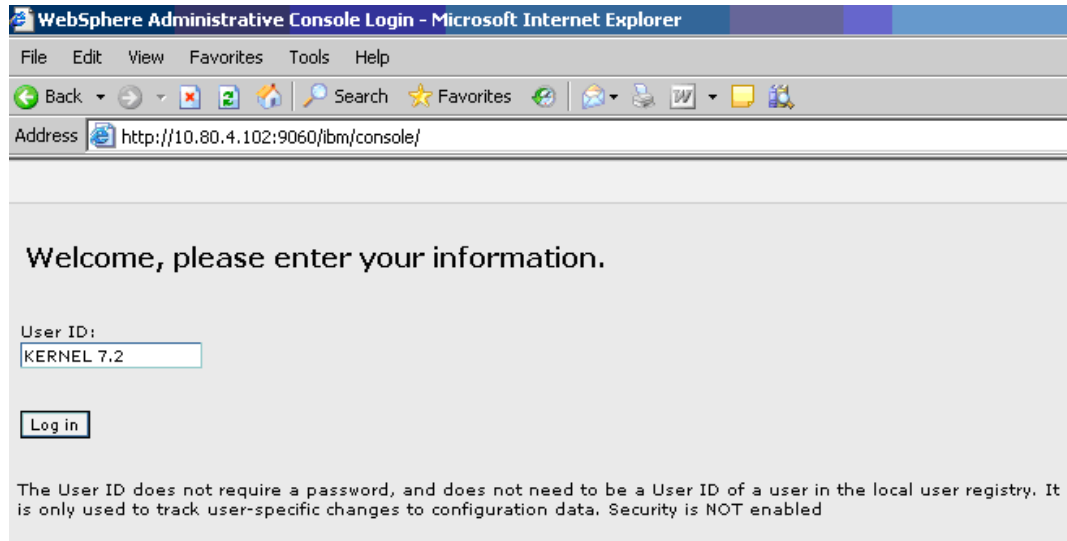
- ✓ Open an internet browser and type the WAS Admin Console URL Address of the server.

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.

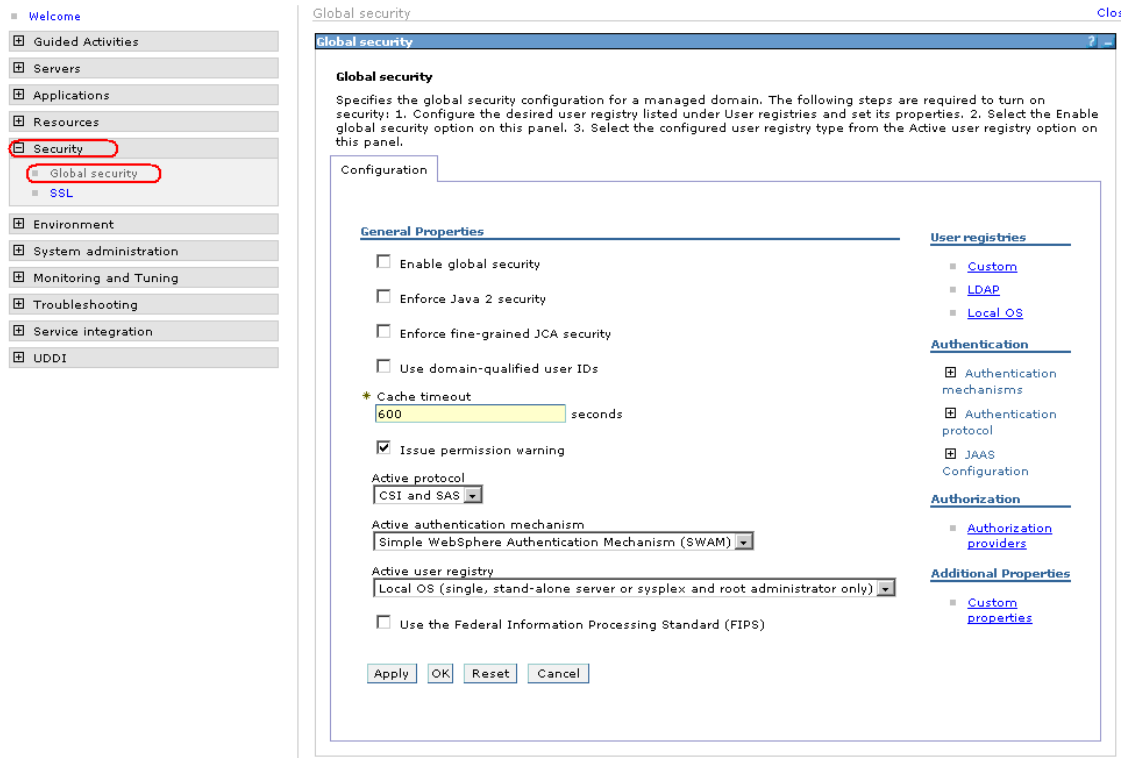
- ✓ Enter a user id for launching the WAS Admin Console window.

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.



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  
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
- J2C 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.





**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** > **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

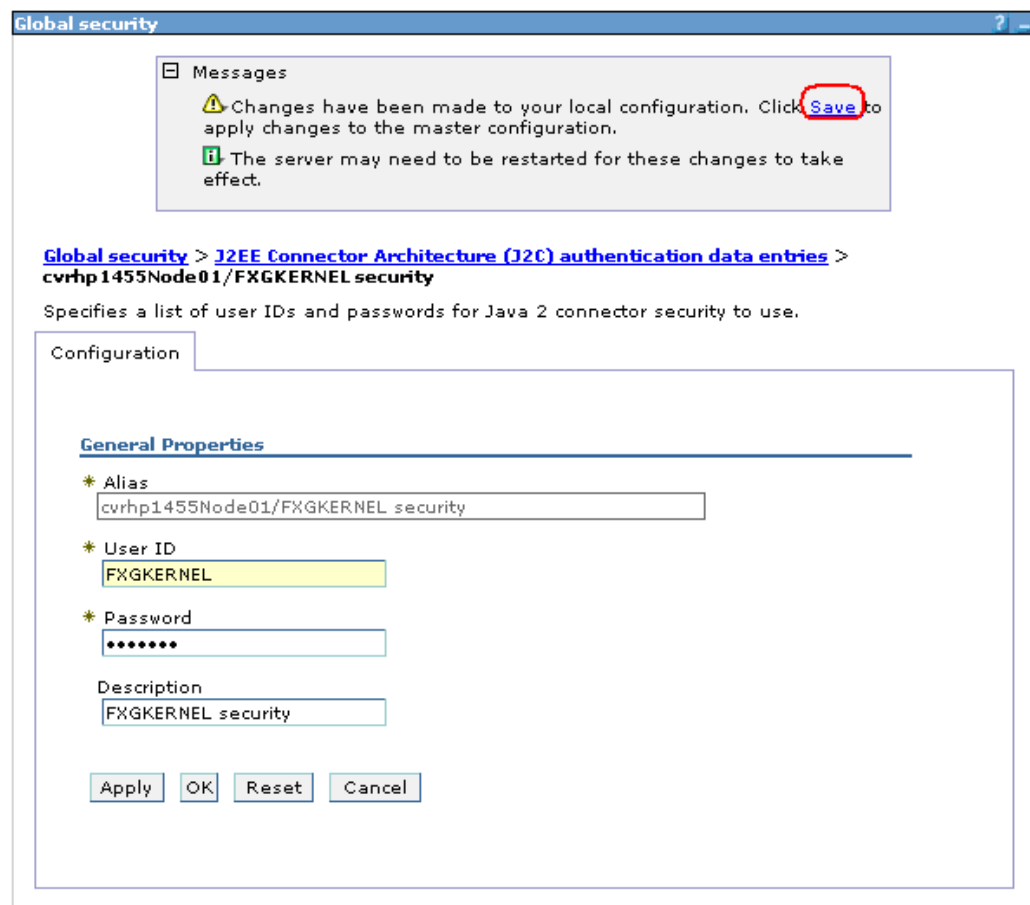
\* Password  
\*\*\*\*\*

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”.



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.

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
<input type="checkbox"/>	<a href="#">cvrhp1455Node01/FXGKERNEL security</a>	FXGKERNEL	FXGKERNEL security
Total 1			

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

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

■ Welcome

⊞ Guided Activities

⊞ Servers

⊞ Applications

⊞ **Resources**

⊞ JMS Providers

⊞ **JDBC Providers**

⊞ Resource Adapters

⊞ Asynchronous beans

⊞ Schedulers

⊞ Cache instances

⊞ Object pool managers

⊞ Mail Providers

⊞ URL Providers

⊞ Resource Environment Providers

⊞ Security

⊞ Environment

⊞ System administration

⊞ Monitoring and Tuning

⊞ Troubleshooting

⊞ Service integration

JDBC providers

**JDBC providers**

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

⊞ Scope: Cell=**cvrhp1455Node01Cell**, Node=**cvrhp1455Node01**

☐ Cell : cvrhp1455Node01Cell

→ ☒ **Node : cvrhp1455Node01**

☐ Server : server1

**Apply**

⊞ Preferences

New Delete

⊞ ⊞ ⊞ ⊞

Select	Name	Description
None		
Total 0		

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

**JDBC providers**

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

☐ Scope: Cell=cvrhp1455Node01Cell, Node=cvrhp1455Node01

☐ Cell : cvrhp1455Node01Cell
 ☒ Node : cvrhp1455Node01
 ☐ Server : server1

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

Apply

Preferences

New Delete

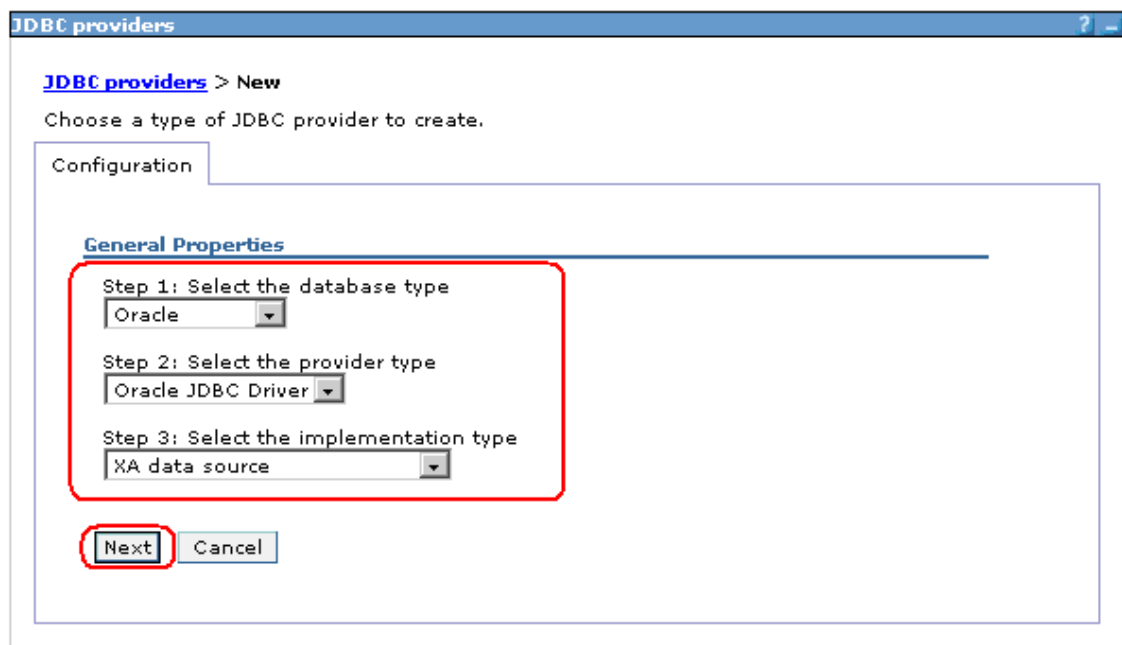
☐
☐
☐
☐

Select	Name	Description
None		
Total 0		

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

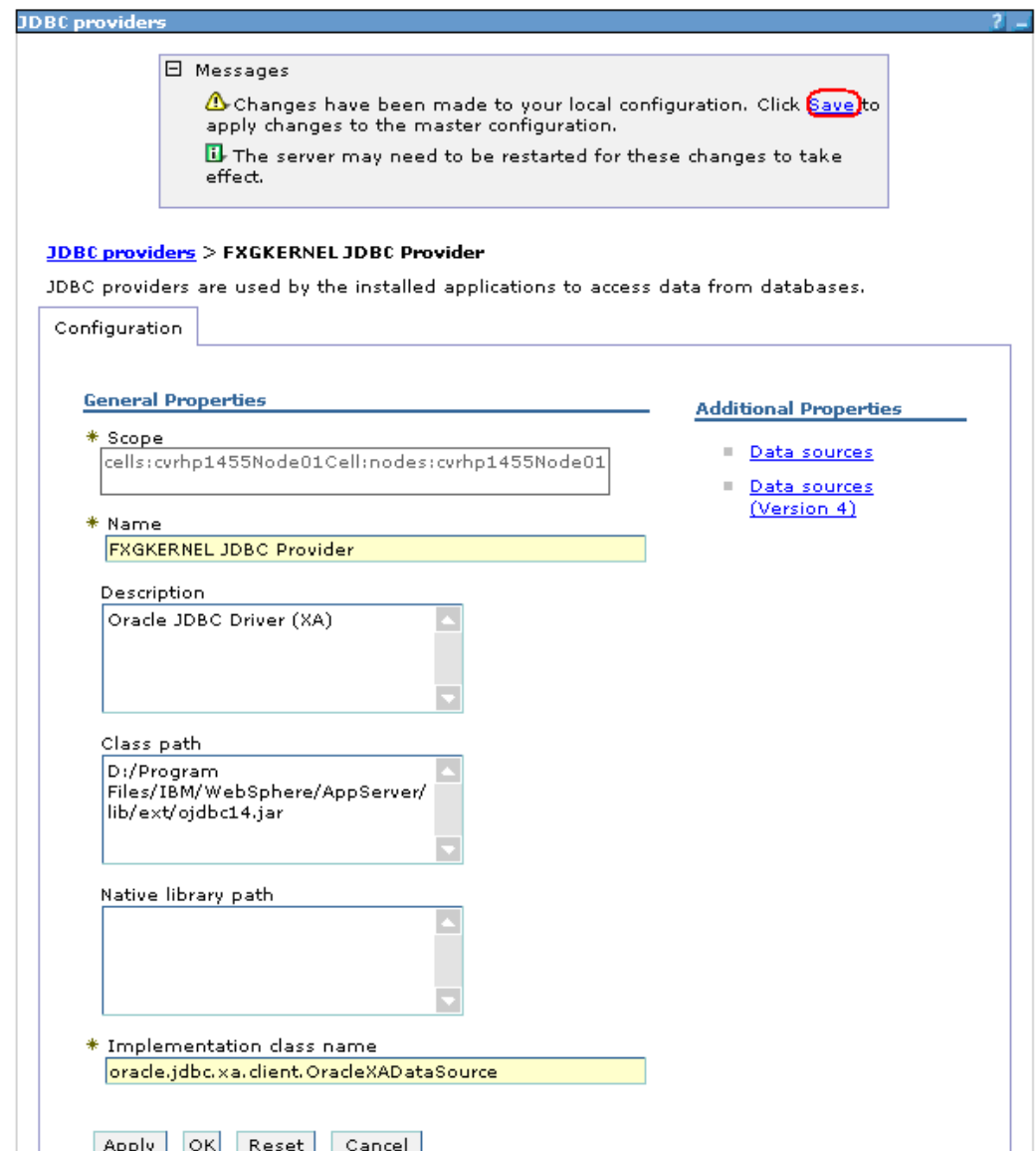
Apply OK Reset Cancel

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

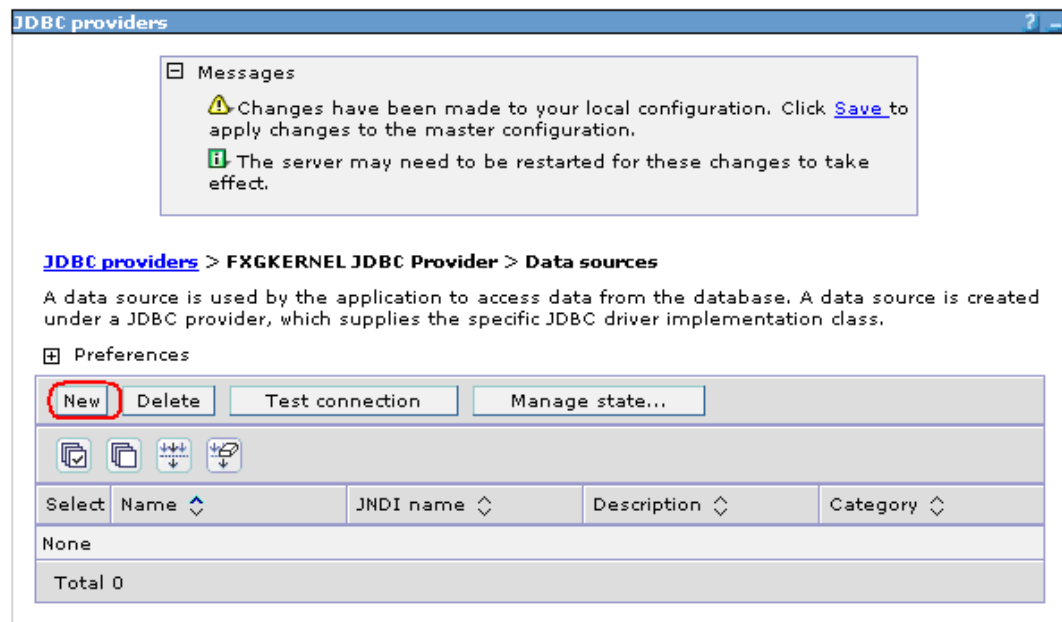
### Additional Properties

- Data sources
- Data sources (Version 4)

15. Following screen will be displayed. Click on "Data sources"



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



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

- ✓ Enter data as explained below

<b>Name:</b>	ADOGL_DS
<b>JNDI Name:</b>	ADOGL_DS
<b>Data store Helper class name</b>	Choose Oracle 10g Data store Helper
<b>Component-managed authentication alias</b>	cvrhp1455Node01/FXGKERNEL Security (Select the J2C authentication data we had created in step 8)
<b>URL</b>	jdbc:oracle:thin:@10.80.50.218:1521:FLEXTES  (Here we are connecting to FLEXTES.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.

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

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

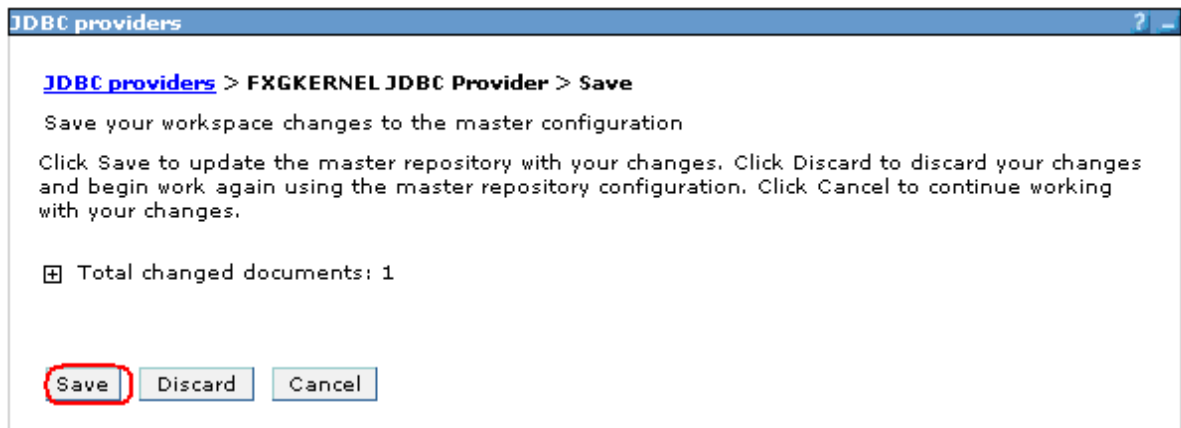
**Additional Properties**

- [Connection pool properties](#)
- [WebSphere Application Server data source properties](#)
- [Custom properties](#)

**Related Items**

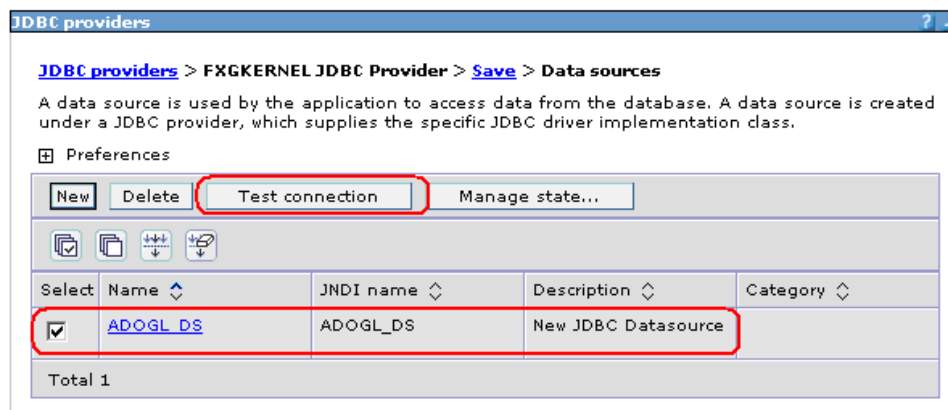
- [J2EE Connector Architecture \(J2C\) authentication data entries](#)

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

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

NewDeleteTest connectionManage state...

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

Total 1



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