

FLEXCUBE UBS Oracle GL Adapter Data Source Creation  
Installation

Oracle FLEXCUBE Universal Banking

Release 12.87.06.0.0

[May] [2020]



---

# Table of Contents

<b>DATASOURCE CREATION STEPS .....</b>	<b>3</b>
1.1    PASSWORD ENCRYPTION.....	3
1.2    CONNECTION POOL CREATION.....	11
1.3    DATA SOURCE CREATION .....	17

### 1.1 Password Encryption

#### A. Stop the application server.

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

✓ For WINDOWS

- Set JAVA\_HOME and ORACLE\_HOME with the paths in your machine

e.g.

```
set ORACLE_HOME=D:\Oracle10gAS
```

```
set JAVA_HOME=%ORACLE_HOME%\jdk
```

- Go to the <APP\_SERVER\_HOME>/bin directory in the command prompt

e.g. `cd %APP_SERVER_HOME%\bin`

- Type **oc4j -shutdown -port 23791 -password <admin\_password>**

e.g. `oc4j -shutdown -port 23791 -password oc4jadmin`

This will stop the server.

✓ For UNIX

- Set JAVA\_HOME and ORACLE\_HOME with the paths in your machine

e.g.

```
export ORACLE_HOME=/home/Oracle10gAS
```

```
export JAVA_HOME=${ORACLE_HOME}/jdk
```

- Go to the <APP\_SERVER\_HOME>/bin directory in the command prompt

e.g. `cd ${APP_SERVER_HOME}/bin`

- Type **oc4j –shutdown –port 23791 –password <admin\_password>**

e.g. `oc4j –shutdown –port 23791 –password oc4jadmin`

This will stop the server.

## B. Start the application server.

- ✓ For WINDOWS

- Set JAVA\_HOME and ORACLE\_HOME with the paths in your machine

e.g.

```
set ORACLE_HOME=D:\Oracle10gAS
```

```
set JAVA_HOME=%ORACLE_HOME%\jdk
```

- Go to the <APP\_SERVER\_HOME>/bin directory in the command prompt

e.g. `cd %ORACLE_HOME%\bin`

- Type `oc4j –start`

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.

✓ For UNIX

- Set JAVA\_HOME and ORACLE\_HOME with the paths in your machine.

e.g.

```
export ORACLE_HOME=/home/Oracle10gAS
```

```
export JAVA_HOME=${ORACLE_HOME}/jdk
```

- Go to the <APP\_SERVER\_HOME>/bin directory in the command prompt

E.g. `cd ${APP_SERVER_HOME}/bin`

- Type **oc4j –start**

This will start the server. Ensure that you get no error during start up.

### C. Open the Administrative Console of Oracle Enterprise Manager

- ✓ Open an internet browser and type the OC4J Admin Console URL Address of the server.

e.g. <http://10.80.4.116:8888/em>

Where, 10.80.4.116 is the machine IP Address on which OC4J is running.

- ✓ Login to Administrative Console

Enter OC4J administrator username/password and press **Login**.

## Login

\* User Name

\* Password

Login

**The database password needs to be encrypted for security reasons. Given below are the steps to encrypt the DB password:**














1. Navigate to the OC4J Home Page.

✓ Click “**Administration**”.

✓ Click the Go to Task icon  in the **Security Providers** row of the Administration Task table.

OC4J: home

Page Refreshed Jul 11, 2006 5:01:50 PM IST

Home Applications Web Services Performance Administration		
Expand All   Collapse All		
Task Name	Go to Task	Description
▼ Administration Tasks		
▼ Properties		
EJB Compiler Settings		Configure the EJB Compiler.
J2EE Websites		Manage the J2EE websites in this OC4J instance.
JSP Properties		Set JSP container properties.
Logger Configuration		Set log levels for all Loggers.
Thread Pool Configuration		Configure the thread pools of this OC4J instance.
Shared Libraries		Manage the shared libraries of this OC4J instance.
▼ Services		
JDBC Resources		Create/delete/view data sources and connection pools.
JMS Providers		Configure the OracleAS JMS Provider.
JNDI Browser		Browse the JNDI bindings of this OC4J instance.
Transaction Manager (JTA)		Configure and monitor transaction management capabilities.
▼ Security		
Security Providers		Configure security providers, create/delete/view users and roles.
Identity Management		Configure or change the Oracle Internet Directory associated with this OC4J instance.
Instance Keystore		Configure the keystore and keys to be used for this OC4J instance.

2. The following screen is displayed.

- ✓ To configure roles and users for the default application, click **Instance Level Security**.

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control interface. The breadcrumb trail is "OC4J: home > Security Providers". The page title is "Security Providers". The page was refreshed on Jul 11, 2006 5:06:02 PM IST. There are three sections: "Instance Level Security" with a button labeled "Instance Level Security", "Application Server Control Security" with a button labeled "Application Server Control Security", and "Application Level Security" which contains a table listing applications and their security providers.

3. The following screen is displayed.

- ✓ Click **Realms** to display the Realms page.

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control interface for the "Instance Level Security" page. The breadcrumb trail is "OC4J: home > Security Providers > Instance Level Security". The page title is "Instance Level Security". The page was refreshed on Jul 11, 2006 5:09:43 PM IST. The "Security Provider Type" is "File-Based Security Provider". The "Security Provider Attributes: File-Based Security Provider" section has two tabs: "General" and "Realms". The "Realms" tab is selected. The "Security Provider Type" is "File-Based Security Provider". The "XML File Location" is "system-jazn-data.xml". The "Default Realm" is "jazn.com". A tip states: "TIP File location path is displayed relative to application deployment directory." The "Realms" tab is selected. The page footer includes "Copyright © 1996, 2005, Oracle. All rights reserved." and "Setup | Logs | Help | Logout".

4. The following screen is displayed.

The Realms page includes a table containing the defined realms for the selected security provider. The table contains a column that shows the number of users and roles defined for each realm.

- ✓ To configure the users for a realm, click the number in the **Users** column.

ORACLE Enterprise Manager 10g  
Application Server Control

OC4J: home > Security Providers > Instance Level Security

Page Refreshed Jul 11, 2006 5:12:45 PM IST

Security Provider Type **File-Based Security Provider**

**Security Provider Attributes: File-Based Security Provider**

General Realms

Search  
Name  Go

Results  
Create

Realm Name	Roles	Users	Delete
jazn.com	3	5	

General Realms

Setup | Logs | Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

5. The following screen is displayed.

- ✓ Click **Realms** to display the Realms page.

ORACLE Enterprise Manager 10g  
Application Server Control

OC4J: home > Security Providers > Instance Level Security >

**Confirmation**  
User fxgjqqa has been deleted.

**Users**

Page Refreshed Jul 11, 2006 5:15:17 PM IST

Security Provider Type **File-Based Security Provider**  
Realm Name **jazn.com**

Search  
Name  Go

Results  
Create

User Name	Assigned Roles	Delete
anonymous		
jtaAdmin	oc4j-administrators*	
oc4jadmin	oc4j-administrators*	

**TIP** Asterisk denotes a role which is directly granted to the user.

Setup | Logs | Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.



6. The following screen is displayed.

- ✓ Enter the actual Database user name.
- ✓ Enter the actual Database password.
- ✓ Confirm the DB password.
- ✓ Click “Move All” to move all the Available Roles to the Selected Roles box.
- ✓ Click OK.

ORACLE Enterprise Manager 10g  
Application Server Control

OC4J: home > Security Providers > Instance Level Security > Users >

[Add User](#)

Cancel OK

Realm Name **jazzn.com**

Name

Password

Confirm Password

[Assign Roles](#)

**Available Roles**

**Selected Roles**

oc4j-administrators  
oc4j-app-administrators  
users

Move  
Move All  
Remove  
Remove All

Cancel OK

Setup | Logs | Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

7. The following screen displays the User names:

[OC4J home](#) > [Security Providers](#) > [Instance Level Security](#) >

### Confirmation

User fxgiga has been created.

### Jsers

Page Refreshed Jul 11, 2006 5:32:05 PM IST

Security Provider Type **File-Based Security Provider**  
Realm Name **jazn.com**

### Search

Name

### Results

<input type="button" value="Create"/>		
User Name ▲	Assigned Roles	Delete
<a href="#">anonymous</a>		
<a href="#">fcciga</a>	oc4j-administrators*, users*, oc4j-app-administrators*	
<a href="#">fxgiga</a>	oc4j-administrators*, users*, oc4j-app-administrators*	
<a href="#">JtaAdmin</a>	oc4j-administrators*	
<a href="#">oc4jadmin</a>	oc4j-administrators*	

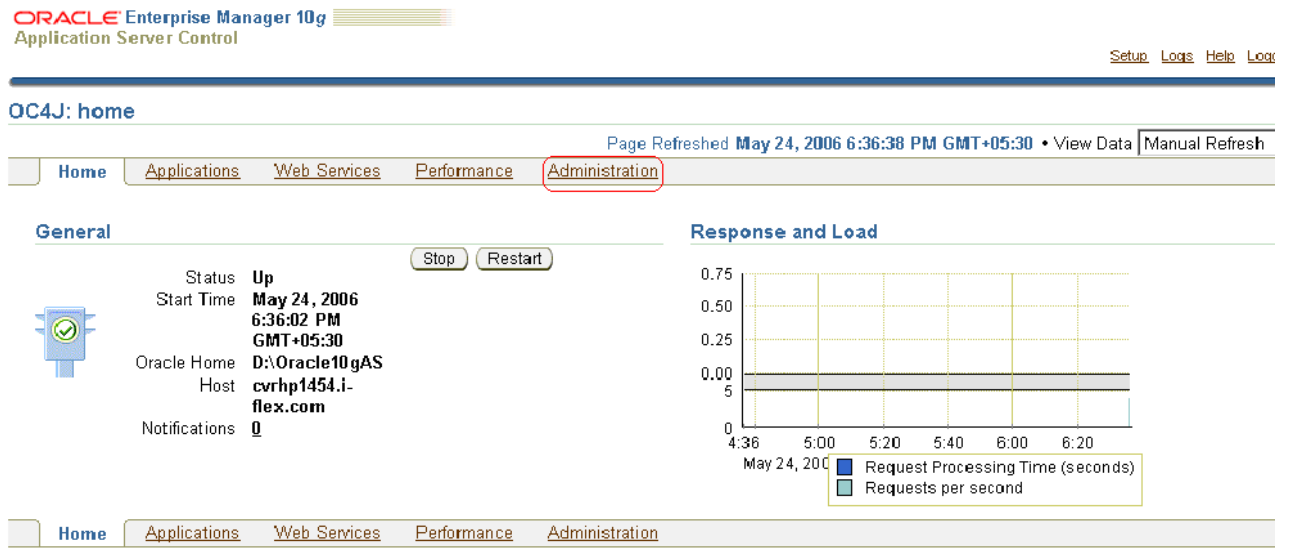
**TIP** Asterisk denotes a role which is directly granted to the user.

[Setup](#) | [Logs](#) | [Help](#) | [Logout](#)

Copyright © 1996, 2005, Oracle. All rights reserved.

## 1.2 Connection Pool Creation

1. Navigate to the “**Administration screen**” as shown below.



2. The following screen is displayed.

- ✓ Go to “**JDBC Resources**” Task.

Page Refreshed May 24, 2006 6:38:39 PM GMT+0

Home Applications Web Services Performance Administration

Expand All | Collapse All

Task Name	Go to Task	Description
<b>Administration Tasks</b>		
<b>Properties</b>		
EJB Compiler Settings		Configure the EJB Compiler.
J2EE Websites		Manage the J2EE websites in this OC4J instance.
JSP Properties		Set JSP container properties.
Logger Configuration		Set log levels for all Loggers.
Task Manager and Thread Pool Configuration		Configure the task manager and thread pools of this OC4J instance.
Shared Libraries		Manage the shared libraries of this OC4J instance.
<b>Services</b>		
JDBC Resources		Create/delete/view data sources and connection pools.
JMS Providers		Configure the OracleAS JMS Provider.
JNDI Browser		Browse the JNDI bindings of this OC4J instance.
Transaction Manager (JTA)		Configure and monitor transaction management capabilities.
<b>Security</b>		
Security Providers		Configure security providers, create/delete/view users and roles.
Identity Management		Configure or change the Oracle Internet Directory associated with this OC4J instance.
Trusted SAML Authorities		Configure trusted SAML assertion issuer names and keys to be used to secure webservices.
Connected Users		View the users connected to this OC4J instance.
<b>JMX</b>		
System MBean Browser		Browse the system MBeans exposed by this OC4J instance.
Notification Subscriptions		View/change subscriptions for notifications for all MBeans.

http://localhost:8888/em/console/jas/oc4j/admin/jdbc Local intranet

### 3. The following screen is displayed: Create a Connection Pool

✓ Click on "Create".

ORACLE Enterprise Manager 10g  
Application Server Control

Setup Logs Help Logout

OC4J: home >

**Information**  
Connection Pool "ADOGL Connection Pool" was removed.

**JDBC Resources**

Page Refreshed May 24, 2006 6:45:02 PM GMT+05:30

Application: All

**Data Sources**

Name	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection	Delete
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓		

Create

**Connection Pools**

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource				

Create

Setup | Logs | Help | Logout

4. **We get the following screen.**

- ✓ **Select “default” Application**
- ✓ **Click “Continue”.**

ORACLE® Enterprise Manager 10g  
Application Server Control

Setup Logs Help Logout

OC4J: home > JDBC Resources >  
Create Connection Pool - Application

Cancel Continue

Select the application to which this new connection pool is to be added.

Application default  
ascontrol  
default

Cancel Continue

Setup | Logs | Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

5. **The following screen is displayed.**

- ✓ **Enter the connection Pool name: ADOGL Connection Pool**
- ✓ **Enter the Connection factory Class :** oracle.jdbc.xa.client.OracleXADataSource
- ✓ **Enter the URL : e.g.: jdbc:oracle:thin:@10.80.50.218:1522:FLEXTEST**
- ✓ **Enter the Username to** the database instance we need to connect
- ✓ **Select “Use Indirect Password” .Enter the username again as the password.**
- ✓ **Select Finish**

[Home](#)
[Attributes](#)
[Proxy Interfaces](#)

\* Name

ADOGL Connection Pool

\* Connection Factory Class

oracle.jdbc.xa.client.OracleXADataSource

Class must be available to the application's class loader.

URL

You can either specify a URL directly or have it generated from connection information. When you test a connection, the connection factory class and credential specified on this page will be used to perform the test.

☒ JDBC URL

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

Test Connection

☐ Generate URL from Connection Information

Test Connection

Driver Type

Thin

DB Host Name

DB Listener Port

DB Identifier Type

Service Name

SID/Service Name

TNS Alias

Credentials

**TIP** For OracleDataSources, credentials must be entered if not already specified in the URL.

Username

fxgiga

☐ Use Cleartext Password

Password

☒ Use Indirect Password

Indirect Password

fxgiga

example: Scott, customers/Scott

## 8. Test the Database Connection

(i)After creating the ADOGL Connection Pool.

- ✓ Go to Administration -> **JDBC Resources**
- ✓ Click on "Test Connection" in the ADOGL Connection Pool row.

OC4J: home >

## JDBC Resources

Page Refreshed Jul 25, 2006 2:47:17 I

Application

### Data Sources

Create					
Attributes					
Name ▲	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection
"ADOGL_DS"	default	ADOGL_DS	"ADOGL Connection Pool"	✓	
"FLEXTEST_WORLD"	default	FLEXTEST_WORLD	"FCUBS Gateway Connection Pool"	✓	
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓	

### Connection Pools

Create					
Name ▲	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool
"ADOGL Connection Pool"	default	oracle.jdbc.pool.OracleDataSource			
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource			
"FCUBS Gateway Connection Pool"	default	oracle.jdbc.pool.OracleDataSource			

Setup | Logs | Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

(ii) The following screen is displayed.

✓ Click Test.

OC4J: home > JDBC Resources >

### Test Connection: "ADOGL Connection Pool"

Test OK

Username **fxgiqa**  
 Password **fxgiqa**  
 URL **jdbc:oracle:thin:@//10.80.50.218:1522/FLEXTEST**  
 \* SQL Statement

**TIP** Certain JDBC drivers require restarting the OC4J instance before a change to the URL is reflected in the driver's cache.

Test OK

Setup | Logs | Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

(iii) The following screen is displayed.

✓ Ensure the connection is established successfully.

[OC4J: home](#) >

### Confirmation

Connection to "ADOGL Connection Pool" established successfully.

## JDBC Resources

Page Refreshed Jul 25, 2006 2:51:05 PM IST

Application

### Data Sources

Create						
Name	Application	Attributes		Managed by OC4J	Test Connection	Delete
		JNDI Location	Connection Pool			
"ADOGL_DS"	<a href="#">default</a>	ADOGL_DS	"ADOGL Connection Pool"	✓		
"FLEXTEST_WORLD"	<a href="#">default</a>	FLEXTEST_WORLD	"FCUBS Gateway Connection Pool"	✓		
"OracleDS"	<a href="#">default</a>	jdbc/OracleDS	"Example Connection Pool"	✓		

### Connection Pools

Create						
Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"ADOGL Connection Pool"	<a href="#">default</a>	oracle.jdbc.pool.OracleDataSource				
"Example Connection Pool"	<a href="#">default</a>	oracle.jdbc.pool.OracleDataSource				
"FCUBS Gateway Connection Pool"	<a href="#">default</a>	oracle.jdbc.pool.OracleDataSource				



## 1.3 Data Source Creation

### 1. Create Data Source

- ✓ Go to Administration -> **JDBC Resources**
- ✓ Click on "Create".

**ORACLE** Enterprise Manager 10g  
Application Server Control

[Setup](#) [Logs](#) [Help](#) [Logout](#)

OC4J: home >

**Information**  
Connection Pool ADOGL Connection Pool has been created.

**JDBC Resources**

Page Refreshed **May 24, 2006 6:49:35 PM GMT+05:30**

Application  oracle.jdbc.pool.OracleDataSource

**Data Sources** Create

Name	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection	Delete
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓		

**Connection Pools** Create

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource				
"FCUBS Gateway Connection Pool"	default	oracle.jdbc.xa.client.OracleXADataSource				
"ADOGL Connection Pool"	default	oracle.jdbc.xa.client.OracleXADataSource				

[Setup](#) | [Logs](#) | [Help](#) | [Logout](#)

Copyright © 1996, 2005, Oracle. All rights reserved.

### 2. The following screen is displayed.

- ✓ Select default Application.
- ✓ Click on "Continue".

[OC4J: home](#) > [JDBC Resources](#) >

## Create Data Source - Application & Type

[Cancel](#) [Continue](#)

### Application

Select the application to which this new data source is to be added.

Application **default**

### Data Source Type

☒ Managed Data Source

A managed data source is one where OC4J provides critical system infrastructure such as global transaction management, connection pooling, statement caching and error handling.

☐ Native Data Source

A native data source is one that implements the java.sql.DataSource interface and does not make use of OC4J's connection pooling or statement caching capabilities. A native data source can only participate in local transactions.

[Cancel](#) [Continue](#)

[Setup](#) | [Logs](#) | [Help](#) | [Logout](#)

Copyright © 1996, 2005, Oracle. All rights reserved.

3. The following screen is displayed.

- ✓ Enter the DataSource Name
- ✓ Enter the JNDI Location
- ✓ Enter the Transactional Level – Global & Local Transactions
- ✓ Select the corresponding Connection Pool Name
- ✓ Click Finish

[OC4J: home](#) > [JDBC Resources](#) >

## Create Data Source - Managed Data Source

[Cancel](#) [Back](#) [Finish](#)

Application **default**

\* Name **ADOGL\_DS**

\* JNDI Location **ADOGL\_DS**

Transaction Level **Global & Local Transactions**

Connection Pool **ADOGL Connection Pool**

\* Login Timeout (seconds) **0**

Maximum time to wait while attempting to connect to a database.

6. The following screen is displayed.

Ensure "ADOGL\_DS" has been created.

ORACLE Enterprise Manager 10g  
Application Server Control

Setup Logs Help Logout

OC4J: home >

**Information**  
Data Source ADOGL\_DS has been created.

**JDBC Resources**

Page Refreshed May 24, 2006 6:55:34 PM GMT+05:30

Application

**Data Sources**

Name	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection	Delete
ADOGL_DS	default	ADOGL_DS	"ADOGL Connection Pool"	✓		
"FLEXTEST.WORLD"	default	FLEXTEST.WORLD	"FCUBS Gateway Connection Pool"	✓		
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓		

**Connection Pools**

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource				
"FCUBS Gateway Connection Pool"	default	oracle.jdbc.xa.client.OracleXADataSource				
"ADOGL Connection Pool"	default	oracle.jdbc.xa.client.OracleXADataSource				

Setup | Logs | Help | Logout

All the data sources are created. Go to the home page.



**FLEXCUBE UBS Oracle GL Adapter Data Source Creation Installation**  
[May] [2020]  
Version 12.87.06.0.0

Oracle Financial Services Software Limited  
Oracle Park  
Off Western Express Highway  
Goregaon (East)  
Mumbai, Maharashtra 400 063  
India

Worldwide Inquiries:  
Phone: +91 22 6718 3000  
Fax: +91 22 6718 3001  
[www.oracle.com/financialservices/](http://www.oracle.com/financialservices/)

Copyright © [2007], [2020], Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

**U.S. GOVERNMENT END USERS:** Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.