Codar

Software version: 1.80

For Microsoft Windows® and Linux operating systems

Configuring Codar to Work with Oracle RAC

Document release date: January 2017

Software release date: January 2017

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Scope and purpose of this document

Enterprise applications such as HPE Codar are usually deployed in high-availability database environments. This document describes Oracle Real Application Clusters (Oracle RAC) configuration for Codar. This document does not cover how to install Codar nor how to install and configure Oracle RAC.

Note: In this document, path names begin with the CSA home directory, CSA_HOME, referring to the directory in which Codar is installed. Even though path names appear in Linux format, they apply to both Windows and Linux.

Oracle RAC

Oracle RAC provides clustering and high availability for Oracle database environments. In an Oracle RAC environment, two or more database instances concurrently access a single database. A typical Oracle RAC environment includes the instances running on different physical machines with a Single Client Access Name (SCAN) that allows clients to access the database using a single hostname/IP address, instead of specifying the hostnames/IP addresses for each of the instances in the connection URL.

Codar database configuration for Oracle RAC

Note: Settings described in this chapter 'Codar database configuration for Oracle RAC' are optional. Using Single Client Access Name (SCAN) described in the above chapter Oracle RAC could be commonly sufficient.

To configure Codar to work with Oracle RAC:

1. Install Codar. In the screen that asks for database information, for the database hostname, enter the SCAN or hostname/IP address of one of the nodes allocated for the SCAN.

   If this information is not correct, the installer is not able to connect to the database and installation cannot proceed until this issue is resolved.

2. After installing Codar, navigate to the configuration file. This file is located at:

   ```
   CSA_HOME/jboss-as/standalone/configuration/standalone.xml
   ```

   Note: Changing the URL style is not mandatory and the user should use it to fine-tune the database connection.

3. Before modifying the `standalone.xml` file, back up the file by making a copy of it.

4. Find the section that configures the Codar datasource. An example is shown below:

   ```
   <!-- idm datasource setup -->
   <datasource jndi-name="java:jboss/datasources/idmDS" pool-name="OracleDS">
   <connection-url>jdbc:oracle:thin:@ //<SCAN_hostname>:1521/<servicename></connection-url>

   <!-- csa datasource setup -->
   <datasource jndi-name="java:jboss/datasources/csaDS" pool-name="OracleDS">
   <connection-url>jdbc:oracle:thin:@//<SCAN_hostname>:1521/<servicename></connection-url>
   ```

5. To fine-tune the connection parameters, replace the <connection-url> element with your desired value for both csaDS and idmDS datasources. For example, you can use following connection-url (replace the highlighted text with appropriate values).:

   Note: The replacement is optional and this connection string is only an example, so you can reformulate the description.

   ```
   <connection-url>
   jdbc:oracle:thin:@(DESCRIPTION=(LOAD_BALANCE=on)(ADDRESS=(PROTOCOL=TCP)
   (HOST=<SCAN_hostname>)(PORT=<port>))(CONNECT_DATA=(SERVICE_NAME=<servicename>)
   (FAILOVER_MODE=(TYPE=SELECT)(METHOD=BASIC)(RETRIES=10)(DELAY=5))))
   </connection-url>
   ```

6. Restart Codar.

Upgrading a Codar database configuration for Oracle RAC

After upgrading Codar to version 1.80, you can manually reconfigure Codar to work with Oracle RAC by completing the tasks described in the Codar database configuration for Oracle RAC section.

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