

# Configure CSA to work with Oracle RAC

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## Scope and purpose of this document

Enterprise applications such as HPE Cloud Service Automation (CSA) are usually deployed in high-availability database environments. This document describes Oracle Real Application Clusters (Oracle RAC) configuration for CSA. This document does not cover how to install CSA 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 CSA 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.

## CSA database configuration for Oracle RAC

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

To configure CSA to work with Oracle RAC:

1. Install CSA. 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 CSA, navigate to the configuration file. This file is located at:

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

**Note:** Changing URL style is not mandatory and user should use it to fine-tune 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 CSA 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 CSA.

## Upgrading a CSA database configuration for Oracle RAC

After upgrading CSA to version 4.80, you can manually reconfigure CSA to work with Oracle RAC by completing the tasks described in the [CSA database configuration for Oracle RAC](#) section.

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