# Practices for Lesson 10: Configuring a Shared Server Architecture

Practices for Lesson 10: Overview

Overview

In these practices, you will configure shared server mode. Then you will configure a network service to connect to the database using a shared server.

Practice 10-1: Configuring Shared Server Mode

Overview

In this practice, you configure shared server mode.

Tasks

Open a terminal window and use oraenv to set the environment variables for the orclcdb

database.

Log in to SQL\*Plus as a user with SYSDBA privileges.

Determine whether the shared server architecture is implemented in your database.

Check the value of the SHARED\_SERVER initialization parameter

Check the value of the DISPATCHERS initialization parameter.

Question: Why is there a shared server and dispatcher?

Answer: If you create your Oracle database with Database Configuration Assistant (DBCA), DBCA configures a dispatcher for Oracle XML DB (XDB). This is because XDB protocols like HTTP and FTP require shared server. This results in a SHARED\_SERVER value of 1. Although shared server is enabled, this configuration

permits only sessions that connect to the XDB service to use shared server. To enable shared server for regular database sessions (for submitting SQL statements), you must add an additional dispatcher configuration or replace the existing configuration with one that is not specific to XDB.

Enable three shared servers in your database.

Determine whether you need to configure any additional dispatchers to support TCP connections.

Check the value of the DISPATCHERS initialization parameter.

Question: Do you need to configure any additional dispatchers?

Answer: Yes. When shared server mode is enabled, a dispatcher is started automatically on the TCP/IP protocol even if the DISPATCHERS parameter has not been set. But a dispatcher with a specified service will connect only to that service.

Change the dispatcher service so it can connect to any service using TCP/IP.

Confirm change:

Exit SQL\*Plus.

Close all terminals.

Practice 10-2: Configuring Clients to Use a Shared Server

Overview

In this practice, you configure a network service that uses shared server.

Tasks

Open a terminal window and use oraenv to set the environment variables for the orclcdb

database.

Configure a network service that uses a shared server connection.

Change the directory to $ORACLE\_HOME/network/admin and then list your current working directory.

Make a copy of tnsnames.ora.

Use an editor such as vi or gedit to edit the tnsnames.ora file, this example uses

vi . Add a new service named test\_ss that uses a dispatcher.

**Hint:** Copy the ORCLCDB entry and change the necessary fields

Invoke SQL\*Plus and connect to the database using a dispatcher. See *Course Practice Environment: Security Credentials* for passwords.

Note: call this **Terminal 1**

Open another terminal window and use oraenv to set the environment variables for the

orclcdb database. Call this **Terminal 2**

In **Terminal 2**, log in to SQL\*Plus as a user with SYSDBA privileges.

In **Terminal 2**, view information about all shared server connections by querying

V$CIRCUIT.

In **Terminal 1**, log out of the SQL\*Plus session that uses the test\_ss service.

In **Terminal 2**, view information about the shared server connection by querying

V$CIRCUIT.

Log out of SQL\*Plus and close both terminal windows.