# Lab: Uninstalling Oracle 19c and Installing Oracle 21c Using wget

## **Objective:**

To find and terminate all running Oracle instances and listeners, uninstall Oracle 19c, download and install Oracle 21c, create a new CDB and PDB, and verify the installation using SQL Developer.

## **Prerequisites:**

- Root or sudo privileges on the server.
- Internet access to download the Oracle binaries.

#### Steps:

## 1. Find and Terminate All Running Oracle Instances and Listeners

Explanation: Before uninstalling Oracle, it's crucial to terminate all running Oracle instances and listeners.

#### 1. Find All Running Oracle Instances and Listeners:

• Use the following commands to identify all running Oracle processes.

```
ps -ef | grep pmon
ps -ef | grep lsnrctl
```

## 2. Terminate All Running Oracle Instances and Listeners:

• Use kill -9 to terminate all identified Oracle processes.

## 3. Verify Termination:

• Ensure that no Oracle processes are running.

```
ps -ef | grep pmon
ps -ef | grep lsnrctl
```

## 2. Uninstall Existing Oracle 19c Installation

Explanation: Before installing a new copy of Oracle, it's essential to remove the existing installation completely.

#### 1. Stop Oracle Services:

• Switch to the Oracle user and stop any remaining Oracle services.

```
su - oracle
sqlplus / as sysdba
SHUTDOWN IMMEDIATE;
exit
lsnrctl stop
```

#### 2. Remove Oracle Directories:

• Remove the Oracle installation directories. Ensure you have the correct paths.

```
su - root
rm -rf /u01/app/oracle
rm -rf /u01/app/oraInventory
rm -rf /etc/oratab
```

## 3. Remove Oracle User and Groups:

• Remove the Oracle user and groups.

```
userdel -r oracle
groupdel oinstall
groupdel dba
```

#### 3. Download Oracle 21c Installation Files

**Explanation:** Use wget to download the Oracle binaries from the Oracle website.

## 1. Create Download Directory:

• Create a directory to store the Oracle installation files.

```
mkdir -p /opt/oracle/install
cd /opt/oracle/install
```

## 2. Download Oracle Binaries Using wget:

Download the Oracle binaries. Note that you may need to accept the Oracle license agreement
and use the appropriate wget command with cookies. Replace <URL> with the actual download
link obtained from the Oracle website.

```
wget --no-cookies --no-check-certificate --header "Cookie:
oraclelicense=accept-securebackup-cookie" -O oracle-database-xe-21c-1.0-
1.o17.x86_64.rpm https://download.oracle.com/otn-
pub/otn_software/database/oracle-database-xe-21c-1.0-1.o17.x86_64.rpm
```

## 4. Install Oracle Database

**Explanation:** Follow the steps to install Oracle Database using the downloaded binary.

#### 1. Install Prerequisites:

• Install any required prerequisites for Oracle.

```
sudo yum install -y oracle-database-preinstall-21c
```

#### 2. Install Oracle Database:

• Install the Oracle Database RPM package.

```
sudo yum localinstall -y oracle-database-xe-21c-1.0-1.ol7.x86_64.rpm
```

#### 3. Configure Oracle Database:

• Run the configuration script to set up Oracle Database.

```
sudo /etc/init.d/oracle-xe-21c configure
```

#### 5. Create a New CDB and PDB

Explanation: Use DBCA to create a new CDB named CDBLAB2 and a PDB named PDBLAB1 CDBLAB2.

1. Run DBCA to Create a New CDB and PDB:

```
dbca -silent -createDatabase -gdbname CDBLAB2 -sid CDBLAB2 -
createAsContainerDatabase true -numberOfPDBs 1 -pdbName PDBLAB1_CDBLAB2 -
pdbAdminPassword PDBAdminPassword1 -templateName General_Purpose.dbc -
responseFile NO_VALUE -characterSet AL32UTF8 -sysPassword SysPassword1 -
systemPassword SystemPassword1 -createListener -emConfiguration LOCAL
```

#### 2. Verify the Database Creation:

• Connect to the new CDB and PDB using SQL\*Plus to verify.

```
sqlplus / as sysdba
SELECT NAME, OPEN_MODE FROM V$PDBS;
```

## 6. Verify Installation and Connectivity with SQL Developer

**Explanation:** Verify the new Oracle installation and connectivity using SQL Developer.

- 1. Download and Install SQL Developer:
  - o If not already installed, download and install SQL Developer from the Oracle website.
- 2. Create a Connection to CDBLAB2:
  - Open SQL Developer and create a new connection:
    - Connection Name: CDBLAB2
    - Username: sys
    - Password: SysPassword1
    - Connection Type: Basic
    - Role: SYSDBA
    - Hostname: localhost
    - Port: 1521
    - Service Name: CDBLAB2

#### 3. Create a Connection to PDBLAB1\_CDBLAB2:

• Create another connection:

■ Connection Name: PDBLAB1 CDBLAB2

■ Username: pdbadmin

■ Password: PDBAdminPassword1

Connection Type: BasicHostname: localhost

■ Port: 1521

■ Service Name: PDBLAB1\_CDBLAB2

## 4. Test and Verify Connections:

 ${\bf \circ}$  Click the  ${\tt Test}$  button for each connection to verify connectivity.

• Once verified, click Connect to open the connection.

## **Summary:**

By following these steps, you will have successfully uninstalled the existing Oracle 19c installation, downloaded and installed Oracle 21c, created a new CDB named <code>CDBLAB2</code> with a PDB named <code>PDBLAB1\_CDBLAB2</code>, and verified the installation and connectivity using SQL Developer. This lab provides a comprehensive guide to managing Oracle installations, ensuring you have a clean and up-to-date Oracle environment.