Miscellaneous

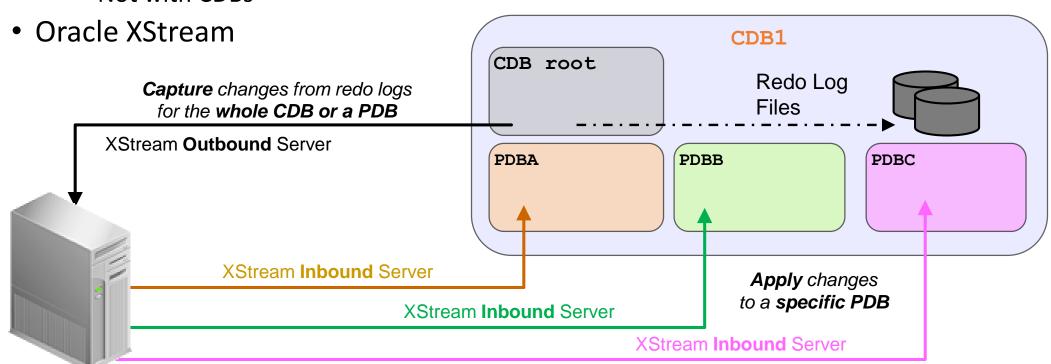
Objectives

- After completing this lesson, you should be able to:
 - Describe the limits of data replication
 - Describe XStreams usage with PDB and CDB
 - Describe Data Guard with CDB and PDB
 - Instantiate a PDB on a standby
 - Schedule operations in a PDB by using Oracle Scheduler
 - Mine PDB statements using LogMiner



Using Xstreams with a CDB and PDB

- Replicate data:
 - Oracle Streams supported in Oracle Database 12c
 - With non-CDBs
 - Not with CDBs



Creating a Standby of a CDB

- Oracle Data Guard at CDB level
 - Create a standby of a CDB as you create a standby of a primary non-CDB.
 - Create a PDB on a primary CDB.
 - From an XML file: Copy the datafiles specified in the XML file to the standby database.
 - As a clone from another PDB: Copy the datafiles belonging to the source PDB to the standby database.
 - Remove or rename PDBs in a primary CDB.
 - UNPLUG and DROP operations on the PDB: The PDB must be closed on the primary as well as all standby databases.
 - RENAME operation on the PDB: The PDB must be in open restricted mode on the primary and closed on all standby databases.

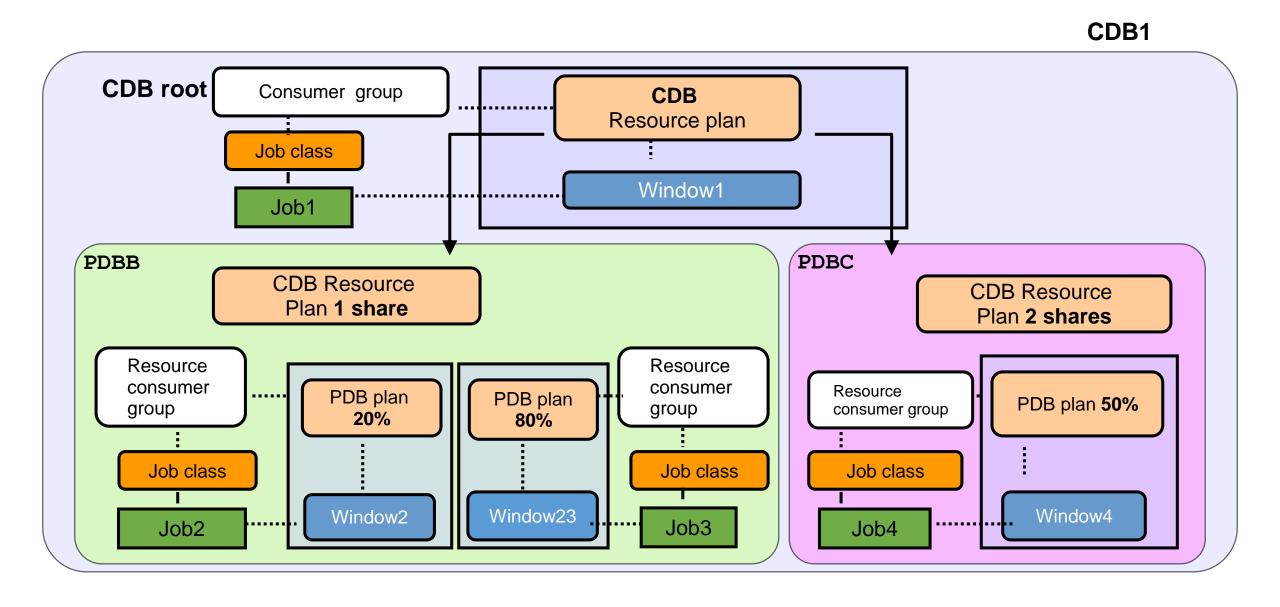
Instantiating a PDB on a Standby

- Creating a PDB on a primary CDB:
- From an XML file: Copy the datafiles specified in the XML file to the standby database.
 - Use the STANDBY_PDB_SOURCE_FILE_DIRECTORY parameter to specify a directory location on the standby where source datafiles for instantiating the PDB may be found → Datafiles are automatically copied.
- As a clone from another PDB: Copy the datafiles belonging to the source PDB to the standby database.
- Use the STANDBY_PDB_SOURCE_FILE_DBLINK parameter to specify the name of a database link that is used to copy the datafiles from the source PDB to which the database link points.
 - → The file copy is automatically done only if the database link points to the source PDB and the source PDB is open in read-only mode.

Scheduling Operations in a PDB

- A job defined in a PDB runs only if a PDB is open.
- User-created scheduler objects can be exported/imported into the PDB using Data Pump.
- Predefined scheduler objects are NOT exported.
 - Any changes made to these objects have to be made once again after the database has been imported into the PDB.

Jobs Coordinator and Resources



Mining Statements of a PDB Using LogMiner

- Mining the CDB redo log files
- V\$LOGMNR CONTENTS view
 - SRC CON NAME contains the pluggable database (PDB) name.
 - SRC CON ID contains the PDB ID.
 - SRC CON DBID contains the PDB identifier.
 - SRC CON GUID contains the GUID associated with the PDB.

Summary

- In this lesson, you should have learned how to:
 - Describe the limits of data replication
 - Describe XStreams usage with PDB and CDB
 - Describe Data Guard with CDB and PDB
 - Instantiate a PDB on a standby
 - Schedule operations in a PDB by using Oracle Scheduler
 - Mine PDB statements using LogMiner



Practice 14: Overview

No practices