

Migrating RAC Database to Oracle Cloud Infrastructure

1) Course Overview

Prerequisites

Course Roadmap

2) Analyzing and Choosing Your Migration Strategy

Inventorizing the Source Environment

Deciding on the Best Migration Strategy

Plan Your Target RAC Setup on Oracle Cloud Infrastructure

Supported Database Editions and Versions in OCI

3) Prepare Source & Target Systems for Migration

Perform Prerequisites on the Source Oracle Database

Preparing the Source Oracle RAC Database for Migration

Creating Virtual Cloud Network (VCN) for DB System

Deploying 2-Node RAC Virtual Machine DB System on OCI

Setting Up DNS for a DB System

4) Migrating On-Prem 2-Node RAC Database to VM DB System on OCI Using Data Pump

Connecting to a Database on a Multi-Node DB System

Connecting Using SCAN IP Addresses & Public IP Addresses

Troubleshooting Connection Issues

Data Pump Migration Compatibility

Migrating an On-Premises 12c CDB Schema to OCI 12c CDB: Conventional Mode

Migrating an On-Premises 12c RAC PDB to 12c RAC PDB on OCI: Conventional Mode

Data Pump Transportable Tablespace (TTS) Mode

Migrating an On-Premises 12c Database Tablespace to OCI 12c CDB: Transportable Tablespace

Data Pump Full Transportable Mode

5) Migrating On-Prem 2-Node RAC Database to OCI by Creating a Backup in the Cloud

Migration Considerations and Compatibility

Overall Migration Approach

Migrating RAC Database from On-Premises to OCI VM DB System Using Cloud Backup Module

Installing the Oracle Database Backup Module

Example 1: Installing the Oracle Database Cloud Backup Module

Example 2: Creating a Tiering Container When Installing the Oracle Database Cloud Backup Module

Oracle Database Backups to Object Storage

Restoring Oracle Database from Object Storage in OCI

6) Migrating On-Prem 2-Node RAC Database to OCI by Using Data Guard

Architecture

Migration Milestones

Cloud Services and Roles Required

Planning the RAC Database Migration

Inventorizing the Source Environment

Deciding on the Best Migration Strategy

Preparing for Migration

Create a Standby Database for the Oracle Cloud Infrastructure System

Check for Connectivity and Bundle Patches

Configure the On-Prem-to-OCI Communication Settings in the OCI Console

Migrating the RAC Database

Configure the Standby (Target) Database

Configure the Database with Oracle Data Guard Broker

Validate Oracle Data Guard Broker on the Primary Database and the Standby Database

7) Migrating On-Prem 2 Node RAC Database to OCI Using Hybrid Data Guard

Hybrid: Disaster Recovery to Cloud by Using Backups & Standby

Enabling DR on Oracle Database Cloud: Overview

Prepare the On-Premises Primary Database

Set Initialization Parameters

Preparing and Creating the Disaster Recovery Database

Monitoring a Hybrid Data Guard Configuration

Performing Switchover to Physical Standby on OCI

8) Use Case: Migrating RAC Database to OCI VM DB System Using GoldenGate

Near-Zero Down Time Migration by Using GoldenGate

GoldenGate Setup Between On-Premises 2 Node RAC Database and 2 Node RAC Database in OCI for Migration

Use-Case: Migrating to Oracle Database Cloud Service by Using GoldenGate