
Implement Database High Availability & Disaster Recovery on OCI

This course teaches you how to design and implement a database maximum availability architecture on Oracle Cloud. You'll learn the techniques involving design and implement a database HA & DR solution on Oracle Cloud Infrastructure (OCI).

Objectives

- Describe the Building Blocks for High Availability in Oracle Cloud Infrastructure
- Get familiar with Oracle Cloud Infrastructure for Oracle Maximum Availability Architecture
- Review Oracle Cloud Infrastructure: Database Service
- Learn to deploy a 2 Node RAC Virtual Machine DB System on OCI
- Explore High Availability Features
- Demonstrate Transparent Application Failover on a 2 Node RAC
- Review Database Disaster Recovery Solution on OCI
- Learn to Enable and Validate DR for a 2 Node RAC Virtual Machine DB System on OCI
- Perform Data Guard Operations - Switchover, Failover, and Reinstat

Topics

- Building Blocks for High Availability in Oracle Cloud Infrastructure
 - High Availability Building Blocks
 - Architecting High Availability Solutions
 - Floating IP Addresses
 - HA with Public & Private Load Balancer
 - Fast Connect Redundancy
 - Using Both IPSec VPN and FastConnect
 - 2-Node RAC DB System to Support High Availability of a Two-Tier Web Application
 - Using Data Guard for a High Availability Database Design
 - Oracle Cloud Infrastructure for MAA
 - Bronze, Silver, Gold & Platinum Reference Architecture
 - RTO and RPO Service-Level Requirements
- Oracle Cloud Infrastructure: Database Service Overview
 - Database Service: Use Cases
 - Virtual Machine DB Systems
 - VM DB Systems Storage Architecture
 - Bare Metal DB Systems
 - Shapes for Bare Metal Database Systems
 - BM DB Systems Storage Architecture

- Exadata DB Systems
- Exadata DB X7 Systems
- Exadata DB Systems Storage Architecture
- Scaling Exadata DB Systems
- OCI DB Systems - VM, BM, Exadata
- Database Editions and Versions
- Database Editions and Options
- High Availability and Scalability
- Data Guard
- Available DB Systems for Implementing Database High Availability in OCI
 - Compute: Bare Metal and Virtual Machines
 - Bare Metal
 - Database Editions and Versions
 - Database Editions and Options
 - Shapes for Bare Metal Database Systems
 - Bare Metal Database Storage Options
 - Shapes for Virtual Machine Database Systems
 - Storage Options for Virtual Machine DB Systems
 - VM DB Systems Storage Architecture
 - BM DB Systems Storage Architecture
- Deploying a 2 Node RAC Virtual Machine DB System on OCI
 - Creating a Virtual Cloud Network (VCN) for a DB System
 - Using the Console to Launch a 2 Node RAC Virtual Machine DB System
 - Using Console to Check the Status of a DB System
 - Setting Up DNS for a DB System
 - Special Considerations for Creating DB Systems
- Working with 2 Node RAC Virtual Machine DB System on OCI
 - Connecting to a Database on a Multi-Node DB System
 - Create TNS Entry for PDBs
 - Connecting to a 2 Node RAC DB System with SSH
 - Connecting to a Database with Oracle SQL Developer
 - Troubleshooting Connection Issues
- Introduction to Database Disaster Recovery on OCI
 - Why You Need Disaster Recovery Plan?
 - Challenges with Disaster Recovery Deployment
 - Disaster Recovery to Oracle Cloud Infrastructure: Strategies
 - Hybrid: Disaster Recovery to Cloud
 - Benefits of Using Oracle Active Data Guard
 - Benefits of Using Golden Gate
 - Disaster Recovery to Cloud: Networking Considerations
- Database Disaster Recovery Solutions on OCI
 - Database Strategies for Disaster Recovery
 - Benefits of Data Guard on OCI
 - Data Guard Configuration Modes
 - Architecture for Data Guard on OCI
 - Benefits of Using Golden Gate on OCI
 - Best Practices for Golden Gate Configuration
 - Architecture for Golden Gate on OCI
 - Using Both Active Data Guard and Golden Gate on OCI

- Enabling a Validating DR for a 2 Node RAC Virtual Machine DB System on OCI
 - Using Oracle Data Guard on OCI
 - Security List for Primary & Standby DB System Subnet
 - Working with Data Guard on OCI
 - Enable Data Guard on a Bare Metal DB System
 - Enable Data Guard on a Virtual Machine DB System