

ORACLE CLOUD INFRASTRUCTURE FOUNDATIONS

DESCRIPTION

This course will help you in developing a strong foundation in cloud computing, core concepts and features of Oracle Cloud Infrastructure (OCI).

BENEFITS

- Describe the key features and components of OCI.
- Identify the core OCI service offerings.
- Understand OCI security model.
- Get to know the OCI compliance structure.
- Understand OCI pricing, support model and operations.

1: Course Introduction

2: OCI Introduction

- OCI Overview
- OCI Architecture
- Distributed Cloud
- Demo: Console Walkthrough
- Skill Check: OCI Introduction

3: Expert Tips for Exam

4: Identity and Access Management

- IAM Introduction
- Compartments
- Demo: Compartments and Identity Domains
- AuthN and AuthZ
- Demo: AuthN and AuthZ
- Tenancy Setup
- Lab: IAM - Create IAM Components (with Identity Domains)
- Lab: IAM - Create IAM Components (without Identity Domains)
- Skill Check: Identity and Access Management

5: Networking

- VCN Introduction
- Demo: Create VCN using VCN Wizard
- VCN Routing and VCN Security
- Load Balancer and Demo: Load Balancer
- Lab: Networking - Create and Configure VCN
- Lab: Networking - OCI Load Balancer
- Skill Check: Networking

6: Compute

- Compute Introduction
- Instance Basics
- Demo: Cloud Shell
- Demo: Compute Instance creation and Scaling
- Oracle Container Engine for Kubernetes intro
- Container Instances
- Functions
- Lab: Create a Web Server on OCI Compute Instance
- Skill Check: Compute

7: Storage

- Storage Introduction
- Object Storage
- Demo: Object Storage
- Block Volume
- Demo: Block Volumes
- File Storage
- Lab: Object Storage - Create and Manage OCI Object Storage
- Lab: Block Storage - Create and Attach Block Volume
- Skill Check: Storage

8: Database

- Database Services Introduction
- Autonomous DB
- Demo: Autonomous Database
- MySQL
- NoSQL
- Skill Check: Database

9: Security

- Security Introduction
- Cloud Guard
- Security Zones and Security Advisor
- Demo: Security Zones
- Encryption Basics
- Vault
- Demo: Vault
- Lab: Security - Configure Security Zones Using Maximum Security Zones
- Skill Check: Security

10: Governance and Administration

- Pricing
- Cost Management
- Demo: Cost Management
- Demo: Cloud Advisor
- Tagging
- Oracle Support Rewards
- Skill Check: Governance and Administration

ORACLE CLOUD DATA MANAGEMENT FOUNDATIONS

DESCRIPTION

Learn how Oracle's cloud data platform extends and complements its core databases. Understand how to architect data management platforms that work together to simplify and maximize productivity, while reducing cost and improving performance, reliability, and security.

BENEFITS TO YOU

- Learn data management strategies for a complete solution
- Learn how to manage Autonomous Database and important data management tools
- Understand Oracle Databases on different platforms, Exadata, Database Cloud Service
- Learn low-code development on Oracle Databases
- Understand the power of Autonomous Databases to support multiple workloads and data types
- Understand data lake house and data mesh architectures
- Learn how to manage the environment with security, availability, upgrades and migrations

1: Data Management Introduction

- Oracle's Data Management Strategy
- Oracle Database Offerings
- Multi-cloud and Hybrid Cloud
- OCI Overview
- Demo: OCI Console walk-through
- Skill Check: Data Management Introduction

2: Autonomous Database (ADB)

- Getting Started with ADB & Provisioning
- Start and Stop an ADB & Auto Scaling
- Autonomous Database Tools
- Skill Check: Autonomous Database (ADB)

3: Exadata & Database Cloud Service (DBCS)

- Exadata deployment options
- Exadata Lifecycle Management
- DBCS offerings
- Skill Check: Exadata and DBCS

4: MySQL & NoSQL

- MySQL Data Service & Heatwave: Overview
- MySQL Data Service Architecture
- Manage MySQL Data Service
- Create, Manage, and Use Heatwave
- Oracle NoSQL Database Cloud Service Overview
- Skill Check: MySQL & NoSQL

5: Converged Database

- How to Simplify Application Development?
- Oracle Autonomous JSON Database
- Developing on Oracle Autonomous Database - Using Graph
- Developing on Oracle Autonomous Database - Using Spatial
- Skill Check: Converged Database

6: Resiliency

- Database Maximum Security Architecture
- Oracle's Maximum Availability Architecture
- Skill Check: Resiliency

7: Developing on Oracle Database

- Managing Oracle Database with REST APIs
- Autonomous Database Built In Tools
- Data Transforms
- Business Models
- Data Insights
- Catalog
- Enterprise Class Low Code
- CI/CD for APEX and Oracle Database Developers
- Skill Check: Developing in Oracle Database

8: Data Lake, Data Warehouse & Machine Learning

- Data Lakehouse on OCI
- Oracle Machine Learning
- Data Mesh Architecture
- Skill Check: Data Lake, Data Warehouse & Machine Learning

9: Upgrades & Migrations

- Migration Use Cases and Solutions Overview
- Database Upgrade Best Practices
- Skill Check: Upgrades & Migrations