Oracle Cloud Infrastructure Architect Associate
Course Duration: 40 Hours (5 Days)

Overview

The Oracle Cloud Infrastructure (OCI) Architect Associate course is a comprehensive program designed to equip learners with the knowledge and skills needed to effectively architect and implement solutions on the OCI platform. It covers a wide range of topics, from the basics of OCI architecture to advanced features of storage, networking, and security. The course is structured into modules that introduce various OCI components and services, including Identity and Access Management, Networking, Compute, Block and Object Storage, File Storage, Database, Security, and Observability and Management. By completing this course, learners will be well-prepared to take the OCI Architect Associate certification exam. This certification is recognized in the industry and demonstrates an individual's expertise in architecting infrastructure solutions using Oracle Cloud Infrastructure services. Whether you're an IT professional looking to advance your career or an organization seeking to leverage cloud capabilities, this course provides the necessary foundation to build robust and scalable cloud solutions on Oracle's cloud platform.

Audience Profile

The Oracle Cloud Infrastructure Architect Associate course is designed for IT professionals aiming to gain expertise in OCI services and architecture. It is particularly suitable for:

- Cloud Architects
- Solutions Architects
- IT Infrastructure Managers
- System Administrators
- DevOps Engineers
- Software Engineers interested in cloud infrastructure
- Technical Consultants
- Oracle Cloud users and enthusiasts
- Technical Support Engineers
- Security Specialists
- Network Engineers
- Database Administrators and Architects
- Professionals preparing for the Oracle Cloud Infrastructure Architect certification exam

Course Syllabus

OCI Introduction

- Introduction
- OCI Architecture

Identity and Access Management

- Introduction

- Authentication (AuthN)
- Authorization (AuthZ)
- Common Policies
- Compartments
- Policy Inheritance and Attachment
- Conditional Policies
- Advanced Policies
- Tag-Based Access Control
- Dynamic Groups

Networking

- Introduction to Virtual Cloud Network (VCN)
- Virtual Cloud Network
- VCN Security
- VCN Connectivity
- Virtual Cloud Network – Gateways and Route Tables
- DNS Service
- Load Balancer
- DRG Enhancements (Transit Hub)
- Network Visualizer
- Inter-Region Latency

Compute

- Compute Choices
- Compute Image Options
- Instance Configurations, Pools, and Autoscaling
- OS Management with Oracle Cloud Infrastructure
- Preemptible Instances
- Burstable Instances
- Moving a Compute Instance to a New Host
- Capacity Reservation
- Dedicated Virtual Machine Hosts
- Run Command

Block Storage

- Block Storage
- Backup and Restoration
- Resizing a Block Volume
- Volume Groups
- Boot Volumes
- Cloning
- Cross-Region Volume Replication

- Attaching a Volume to Multiple Instances

Object Storage

- Object Storage
- Auto-Tiering
- Managing Access and Authentication
- Lifecycle Management
- Object Storage Replication and Cross-Region Copy
- Versioning
- Data Retention
- Logging

File Storage

- File Storage
- Security
- Snapshots and Cloning

Database

- Autonomous Database Concepts
- Autonomous Database Administration
- Database Systems – Concepts
- Database Systems – Administration
- MySQL Database Service – Concepts
- NoSQL Database Service – Concepts

Security

- Introduction
- Cloud Guard
- Security Zones and Security Advisor
- Vulnerability Scanning
- Vault
- Vault Deep Dive
- Vault Secrets
- Web Application Firewall
- Bastion

Observability and Management

- Introduction
- Monitoring
- Logging
- Logging Analytics
- Operations Insights

- Application Performance