

S Oracle Cloud Infrastructure Multicloud Architect Professional

Oracle Cloud Infrastructure

DURATION

1 Days

MODULES

7 Lectures

COURSE CODE

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Course Overview

In this course, you will learn: Multicloud use cases and solutions Multicloud connection options How to Use Oracle's interconnect solution with Microsoft Azure? How to Use Oracle's interconnect solution with Google Cloud? Oracle Database@Azure Oracle Database@Google Cloud

What You Will Learn

Module 1: Introduction to Multicloud

- Multicloud – The New Normal
- Autonomous Database Overview
- Oracle Database Service for Azure
- Oracle Database@Azure
- OCI-Azure Interoperability
- Oracle Multicloud Announcements & Milestones
- Autonomous Database
- Oracle Database@Google Cloud
- OCI-GCP Interoperability
- OCI Multicloud Use Cases
- Split Stack Architecture
- Distributed Cloud
- SaaS Integration
- High Availability and Data Protection

Module 2: OCI Identity and Access Management (IAM)

- OCI IAM Basics
- What is OCI IAM?
- OCI Identity Concepts
- Authorization (AuthZ)
- Identity Domain

- Identity Domain Types
- Federation Concepts
- What is Identity Federation?
- How Identity Federation Works

Module 3: OCI Virtual Networks

- Getting Started with OCI Virtual Networks
- Virtual Cloud Network (VCN)
- IP Address Range & IPv6
- VCN Subnets
- VCN Security
- Security Lists: Stateful & Stateless Rules
- Network Security Groups (NSG)
- Security List + NSG
- VCN Gateways
- Internet Gateway, NAT Gateway, Service Gateway
- Local Peering Gateway, Dynamic Routing Gateway
- VCN Routing & Route Tables

Module 4: Multicloud Connectivity

- Multicloud Network Connectivity Options
- Site-to-Site VPN
- FastConnect & FastConnect Partners
- Site-to-Site VPN Setup
- Equipment on Customer Premises
- Tunnel Mode, NAT considerations
- Multicloud VPN
- AWS & Azure VPN Configurations
- Low-Latency Dedicated Connectivity
- Virtual Circuits
- FastConnect with IPv6
- Layer 2 & Layer 3 Options
- OCI-Azure Interconnect
- Regions, Architecture, Use Cases, Building Blocks
- OCI-Azure Interconnect Scenarios & Setup
- Oracle Interconnect for Google Cloud
- Overview, Benefits, Regions
- Common Architectures & Provisioning Workflow

Module 5: OCI Database Services Overview

- Database Services in Oracle Cloud
- Oracle Base Database Service
- License-Included Options
- VM DB Systems Storage Architecture

- Cloud Automation for Lifecycle Management
- High Availability & Disaster Recovery
- Integrated Security: Data to Identity
- Autonomous Databases
- Exadata Database Service
- OCPU Scaling Options
- Cost-Effective Licensing Models
- MySQL Database Service
- High Availability Configuration
- HeatWave Overview & Features

Module 6: Oracle Database@Azure

- OCI-Azure Interoperability
- Oracle Database@Azure Service Overview
- Easy Adoption
- Operational Responsibilities
- Use Case Scenarios
- Migrate Workloads from On-Premises & Non-Oracle Cloud
- Architecture: Physical Data Center Level
- Onboarding Oracle Database@Azure
- Subscription & Resource Onboarding
- Identity: Azure Roles & Groups, OCI Roles & Groups
- Networking
- Subnet IP Requirements, Delegation, Topologies (Local, Hub-Spoke, Peering)
- Provisioning Oracle Database@Azure
- Exadata Infrastructure, VM Cluster, Database
- Operations
- Monitoring, High Availability & Disaster Recovery
- Automatic Backup to OCI Object Storage
- Configuring Local & Remote Standby
- Automated Data Guard Deployment
- Hybrid Data Guard

Module 7: Oracle Database@Google Cloud

- Oracle & Google Cloud Partnership Overview
- Oracle Database@GCP
- Easy Adoption
- Operational Responsibilities
- Architecture & Deployment in GCP Zones
- User Journey & Onboarding
- Prerequisites, Purchase Options, Configuration
- Networking Topologies
- Single VPC, Multiple Subnets, VPC Peering
- Hub-and-Spoke Network Virtual Appliance (NVA)
- Provisioning

- Role-Based Access, Network Requirements

Provision Oracle ADB-S, ExaDB-D, Exadata Infrastructure, VM Cluster, Exadata Database

- Operations & Management
- Backup Configuration for Exadata & Autonomous Databases
- Monitoring Resources in GCP