S Oracle Database@Azure Deep-Dive

Oracle Cloud Infrastructure

DURATION	MODULES	COURSE CODE
1 Days	5 Lectures	—

Course Overview

In this course, you will learn: Oracle Database@Azure Architecture Oracle Database@Azure Use Case scenarios Onboarding an Azure environment with Oracle Database@Azure. Managing users and groups for Oracle Database@Azure after onboarding. Network Planning for Oracle Database@Azure Provisioning and Managing Oracle Database@Azure Fundamentals of Oracle Exadata X9M Microsoft Entra, Azure Subscription and Azure Virtual Network

What You Will Learn

Module 1: Introduction to Oracle Database@Azure

- Multicloud Overview
- OCI-Azure Interoperability
- Oracle Database@Azure Overview
- Service Overview
- Easy Adoption
- Operational Responsibilities
- Use Case Scenarios
- Migration of Workloads
- From On-Premises
- From Non-Oracle Cloud
- Oracle Database@Azure Architecture
- Physical Data Center Level Architecture
- Onboarding Oracle Database@Azure
- Subscription & Resource Onboarding
- Identity Management
- Azure Roles
- Groups and Roles in Azure
- Groups and Roles in OCI
- Networking Requirements
- Client & Backup Subnet IP Requirements

- Usable IPs by CIDR Size
- Subnet Delegation in Azure VNet & Benefits
- Topologies: Local VNet, VNet Peering, Hub-Spoke Peering
- Connect OCI Application or Service in same VCN

Module 2: Oracle Database@Azure Provisioning and Operations

- Provisioning Oracle Database@Azure
- Provision Oracle Database Resources
- Provision Oracle Exadata Infrastructure
- Provision Oracle Exadata VM Cluster
- Provision Oracle Exadata Database
- High Availability & Disaster Recovery
- Objectives
- Automatic Backup to OCI Object Storage
- Configuring Automatic Backup in OCI Console
- Configuring Local & Remote Standby
- Automated Data Guard Deployment
- Hybrid Data Guard with Oracle Database@Azure
- Operations & Monitoring
- Operational Resources
- Monitoring in Azure

Module 3: Exadata X9 Overview

- Exadata X9M: Extreme Performance Scale-Out Database Platform
- Storage & Performance
- Flash Bottlenecks & Memory-Speed Flash
- Persistent Memory (PMem) & Accelerators
- Internal Network Fabric: RDMA over Converged Ethernet (RoCE)
- Maximum Availability Architecture (MAA)
- Full-Stack Security Highlights
- Exadata System Software 21.2 Highlights
- Persistent Storage Index, Columnar Cache, Smart Scan, ACFS IO Caching
- IORM Cluster Plan & Smart Scan Decryption
- Smarter System Management
- Exadata Advantages & Summary

Module 4: Exadata Database Service

- Exadata Database Service Overview
- Service Details
- Dedicated Infrastructure
- Cloud@Customer
- High Availability Features
- Oracle Exadata Database Service Cloud Architecture
- Database Server Architecture

- Hybrid Cloud: Public Cloud Simplicity Behind Firewall
- Cloud@Customer Architecture
- Elastic OCPU Scaling & Pay-Per-Use Model

Module 5: Microsoft Entra ID & Azure Essentials

- Microsoft Entra ID Overview
- Azure Subscription
- Azure Resource Groups
- Microsoft Entra Roles vs Azure Roles
- Microsoft Entra Roles
- Azure Roles
- Azure Virtual Network
- Creation Basics
- IP Address Management
- Routing: System & Custom Routes
- Security: Network Security Groups & Default Rules
- How Network Security Groups Filter Traffic