Unogeeks

Oracle Cloud Infrastructure (OCI) Course Content

Course Duration - 35-40 Hrs., 5-6 Weeks

Course Information

Course Duration

Weekday Batch
Mon – Fri – 1.5 Hr./Day

Duration – 5-6 Weeks

About the Trainer

OCI Architect with 15+ Years of Real Time Work Experience at Top US Based Product and Consulting Firms

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Introduction To Oracle Cloud Infrastructure Training

Oracle Cloud Infrastructure

Oracle Cloud Infrastructure (OCI) is a Next-gen IaaS that delivers on-premises, high-performance computing power to run cloud native and enterprise company's IT workloads. OCI provides real-time elasticity for enterprise applications by combining Oracle's autonomous services, integrated security, and serverless compute.

What you'll learn

➢ Most OCI concepts required for OCI Architect Associate & Professional Certification Exams.

➢ Learn Cloud Computing Concepts and OCI Architecture Hands on from OCI Industry Expert.

➢ Master OCI key services like Identity and Access Management (IAM), Compute, Storage etc.

➢ Build expertise in OCI Core Services Networking, Database, Load Balancer, Security etc.

➢ Configure OCI Core Services for Real Time Use Cases

➢ Hands on deployment of wide variety of applications in OCI

➢ Deploy HA Application using Load Balancers

➢ EBS Cloud Manager in OCI

➢ OCI Messaging/Notification Service, Tagging, and Cost Management

➢ Provide guidance for OCI Architect Associate and Professional Certification Exams

➢ Provide support in Resume and Interview Preparation

Course Content

Module 1: Introduction to Cloud Computing

➢ What is Cloud Computing

➢ Service Models

➢ High Availability

➢ Disaster Recovery

➢ Cloud Terminology

➢ How Cloud Computing converts CAPITAL EXPENDITURE to OPERATIONAL EXPENDITURE?

Module 2: Oracle Cloud Infrastructure Architecture

➢ Why OCI?

➢ OCI Global Footprint

➢ OCI Architecture – Regions, Availability Domains (AD) and Fault Domains (FD)

➢ OCI Regions with one AD regions

➢ What factors to consider while choosing a region?

➢ How to avoid single points of failure?

➢ How to design High Availability, Scale and Performance Network with in AD

➢ OCI Services Overview

➢ High level overview of the course content

Module 3: Oracle Cloud Account Sign Up Process & OCI Console Overview

- ➢ Oracle Cloud Account Sign Up Process for Free Tier Account
- ➢ Oracle Cloud Infrastructure Console Overview

Module 4: Identity and Access Management (IAM)

- ➢ Identity and Access Management Principals, Users and Groups
- ➢ Authentication and Authorization in IAM
- ➢ IAM Policies, Policy Syntax and Verbs & Permissions
- ➢ IAM Common Policies, Advanced IAM Policies & Advanced Policy Syntax
- ➢ IAM Compartments, Policy Inheritance and Attachment for Compartments
- ➢ Moving Compartments and Policy Implications to consider while moving Compartments
- ➢ Understand how to use Tags and Audit Service effectively

Module 5: Virtual Cloud Network (VCN)

- ➢ Introduction to Networking Concepts
- ➢ CIDR Basics
- ➢ Introduction to Virtual Cloud Network
- ➢ IP Address range for VCN, Public and Private IP Addresses
- ➢ Subnets, Gateways and Route Tables
- ➢ Internet, NAT, Service, Dynamic Gateways
- ➢ Peering, Local and Remote Peering
- ➢ Transit Routing, Hub and Spoke & private access
- ➢ Security List (SL) and Network Security Group (NSG)
- ➢ Stateful and Stateless Security Rules
- ➢ Virtual Cloud Network Summary

Module 6: OCI Compute Service

- Introduction to OCI Compute Service
- Bare Metal, VM and Dedicated Hosts
- Machine Images, Custom Images and Oracle Provided Images
- Image Import/Export, Bring your own Image (BYOI)
- Custom Boot Volume, Custom Image versus Boot Volume Backup
- Instance Configurations, Pools, Autoscaling
- Autoscaling Configurations
- Instance Lifecycle and Metadata
- OCI Compute Service Summary

Module 7: OCI Load Balancer

- Introduction to OCI Load Balancing Service
- Public and Private Load Balancer
- Regional Subnets and AD Specific Subnets
- Load Balancing Policies and Health Checks

Module 8: Object Storage

- Introduction to OCI Storage Services
- Use cases for Object Storage usage
- Object Naming, Object Storage Tiers and Capabilities
- Object Storage Access and Authentication
- Object lifecycle management

Module 9: Block & Boot Volumes

- ➢ Introduction to OCI Storage Services
- ➢ Block Volume Service
- ➢ Creating and Attaching Block Volumes
- ➢ Detaching and Deleting Block Volumes
- ➢ Block Volume Resize, Back Up and Restoration
- ➢ Clone, Volume Groups & Boot Volumes

Module 10: File Storage Service

- ➢ Introduction to OCI Storage Services
- ➢ File Storage Service Use Cases
- ➢ File Storage service Features
- ➢ Mount Target
- ➢ File System, FSS Paths, Mounting an OCI File System
- ➢ File Storage Service Security
- ➢ Security Lists, Export Option and Snapshots

Module 11: Databases

- ➢ Introduction to OCI Database Service
- ➢ Virtual Machine (VM) Database (DB) Systems
- ➢ DB Systems – VM, BM, Exadata
- ➢ Database Editions, Versions and Options
- ➢ Managing & Patching DB Systems
- ➢ Automatic Backup and Restore
- ➢ High Availability and Scalability
- ➢ Oracle Data Guard

Module 12: Autonomous Databases

- Introduction to OCI Database Service
- Getting Started with Autonomous Database
- Autonomous Database Options
- Autonomous Database Cloud Deployment Options
- Autonomous Data Warehouse: Architecture
- Autonomous Transaction Processing: Architecture
- Auto Scaling & Securing Autonomous Database (ADB)
- Autonomous Database Cloud – Cloning

Module 13: High Availability and Disaster Recovery

- Introduction to High Availability Concepts
- Availability Domains & Fault Domains
- Avoid Single Points-of-Failure
- Regional and AD Specific Subnets
- High Availability for OCI: Connectivity
- Configure Load Balancer for High Availability

Module 14: Cost Management with Budgets and Quotas

- Create and Access OCI Budgets
- Set up Budgets Alert Emails
- Accessing Usage Reports
- Service Limits and Usage
- Compartment Quotas
- Quota Policies with Examples
- Cost Management Best Practices

Module 15: OCI API, SDK, & CLI

- Different Ways to Access OCI
- Developer Tools with OCI
- Command Line Interface (CLI)
- Software Development Tool Kits (SDKs)
- Installing & Configuring Oracle Cloud Infrastructure CLI
- Working with OCI Services with CLI - Check Connectivity
- Downloading and Configuring SDKs for OCI

Module 16: OCI Database Cloud Backup Service

- Introduction to OCI Database Cloud Backup Service
- Backups via Cloud Tooling (Automatic and Manual)
- Command Line Tools (dbcli / bkup_api / dbaascli)
- Manual RMAN Backups

Module 17: OCI Monitoring and Notification Service

- Introduction to OCI Monitoring Service
- Metrics, Metric Queries & Alarms
- Use cases for OCI Monitoring Service
- Introduction to OCI Notification Service
- OCI Notifications Use Cases

Module 18: Tagging in OCI

- Why do I need tags?
- Tags Details & Tag Namespace
- Searching and Securing Tags
- Automating Tag Application
- Working with Defined Tags and Policies

Module 19: Deploy Webserver in OCI

- ➢ Create VCN
- ➢ Launch Compute Instance
- ➢ Install Apache Web Server
- ➢ Launch and access web server

Module 20: Deploy HA Application using Load Balancers

- ➢ Create a Virtual Cloud Network
- ➢ Create Two Compute Instances and Install the Web Server
- ➢ Create Security List, Route table, and Additional Subnet
- ➢ Create Load Balancer and Update Security List
- ➢ Verify High Availability of HTTP Servers
- ➢ Delete the Resources

Module 21: OCI Configuring Auto Scaling

- ➢ Generate SSH Keys
- ➢ Create VCN
- ➢ Create Load Balancer and Update Security List
- ➢ Configure instance pool and auto scaling
- ➢ Test the Autoscaling setups

Module 22: Deploy EBS Cloud Manager in OCI

- ➢ Setup EBS Cloud Manager Authentication with Identity Cloud Service (IDCS)
- ➢ Create the EBS Cloud Manager Administrators group and user in IDCS
- ➢ Register Oracle E-Business Suite Cloud Manager as a Confidential Application in IDCS
- ➢ Deploy and Configure Oracle E-Business Suite Cloud Manager

Module 23: Provision EBS in OCI using Cloud Manager

➢ Provision an EBS Environment Using One-Click Provisioning

➢ Enable and Set Oracle E-Business Suite Account Passwords

➢ Open Firewall and Security List to Allow Connections to EBS Environment

➢ Configure Local Hosts File and Log in to Oracle E-Business Suite

Module 24: Security Best Practices in OCI

➢ Data Safe

➢ OCI Auditing in an Autonomous Database

➢ Oracle Active Data Guard

➢ OCI Audit Service

Module 25: Guidance on Certification and Resume Preparation, Interview and Job Assistance

➢ Explain certification options available in OCI

➢ Provide tips on how to clear for OCI Architect Associate & Professional Certification

➢ Help with Resume Preparation as OCI Infrastructure Specialist

➢ Discuss common interview questions in OCI