OCI || Oracle Cloud Infrastructure Architect Associate Syllabus

Instructor Information

Instructor	Email	Duration
ExaGuru	support@exaguru.com	50 Hours

Description

This course provides a comprehensive exploration of all technical aspects related to the Oracle Cloud Infrastructure technical stack offered by Oracle Corporation. The content is custom-designed by ExaGuru Architects, incorporating practical implementations and referencing multiple live scenarios based on global customer implementations.

Expectations and Goals

After completing this course, one should be proficient in handling Exadata Cloud at Customer and Exadata Cloud Service offerings by Oracle. This course comes with complete theoretical and practical Scenarios learned and constructed by Experts working on the Concerned Subject.

Course Materials

- Laptop with 2/4 Gb Ram

- Internet Access for Accessing Cloud Services and Live/Recorded training

Bonuses Provided with the Course

- Hands-on lab Exercises prepared by Experts.
- High-quality video access through a dedicated LMS Portal.
- Interview questions and strategy sessions with Experts.
- Latest Questions and Answers for Clearing Certification Exams.
- FREE Lifetime private community Access for discussing problems related to concerned subject.

Course Schedule

Module	Topic
Overview of Oracle Cloud and Related Deployment Models	**Cloud Overview & Concepts** • Traditional Data Centers vs Cloud Computing • Oracle Cloud Deployment Models: Public vs Private & Hybrid • Oracle Cloud IaaS Offerings • OCI vs OCI Classic vs EXACS vs EXACC • Understanding Tenancy, Region, Compartments, AD • Understanding Compute, Network, Storage • Understanding IAM • Create your Account on Oracle Cloud
OCI & Identity and Access Management Service	**IAM Service Overview** • IAM Users and Instance Principals • Authentication and Authorization • Policies • Federation • Tagging
Hands-on Lab IAM	**Hands-on Lab IAM** • Set up Account • Walkthrough IAM Dashboard • Create Compartments • Create Users, Groups, Policies • Assign Users to Groups and Apply Related Policies

Module	Topic
Networking	**Networking** • Networking, VCN & CIDR • Subnet & Routing • Internet Gateway (IGW), Dynamic Routing (DRG) and Security • Stateful vs Stateless Security List, VPN & Fast Connect • DNS & Scope of Network Service
Hands-on Lab VCN	**Hands-on Lab VCN** • Practice 01: Create a Virtual Cloud Network • Practice 02: Create Internet Gateway • Practice 03: Create Route Table • Practice 04: Create a Security List
Beginner-OCI Compute	**Beginner-OCI Compute: Bare Metal & Virtual Machine** • Overview Compute: Bare Metal & Virtual Machine • Compute Shapes: Standard, HighIO, DenseIO, GPU • Compute Lifecycle, Billing Images • Boot Block Volume, Compute Scope • Provision Compute Instance

Module	Topic
Hands-on Lab Compute	**Hands-on Lab Compute** • Practice 01: Generate SSH Keys • Practice 02: Creating a Web Server on a Compute Instance
Block, Object, File Service	**Block, Object, File Service** • OCI Storage Services • Block Storage Overview, Volume Attachment • Boot Volume, Block Volume Overview • Block Volume Characteristics, Performance, Security • Create, Attach, Detach, Manage Block Volume • Backup, Restore, Clone Block Volume • Object Storage Overview • Create, Manage Tiers, Pre-Authenticated • File Storage Service • Use Cases, Features, Paths, Security
Load Balancer Service	**Load Balancer Service** • Load Balancer Concept • OCI Load Balancing Service • Public vs Private Load Balancer • Load Balancing Policies, Health Check • Traffic Distribution, Load Balancer Shape

Module	Topic

Hands-on Lab Load Balancer

Hands-on Lab Load Balancer

- Create VCN, Public Subnets, and Instances with Web Servers
- Create a Load Balancer, Route Table, and Security List
- Create Public Subnets for Load Balancer
- Create Backend Set, Add Servers to Backend Set
- Add Rules and Create a Listener
- Allow Traffic

Advanced-OCI Compute, Bare Metal, Virtual Machine

Advanced-OCI Compute, Bare Metal, Virtual Machine

- Describe the OCI Compute Service
- Compute Bare Metal, Virtual Machines
- High Availability, Disaster Recovery
- Avoid Single Point of Failure, Fault Domains
- Instance Configuration Pool
- Instance Console Connections
- Custom Images, X5, X7 Compatibility for Custom Images
- Image Import, Export, Custom Image, Boot Volume Backup
- Bring Your Own Hypervisor - OVM, KVM, and Hyper-V
- Cloud-Init Metadata, Instance Metadata

Module	Topic
Managing Databases on OCI	**Managing Databases on OCI** • OCI Database Service • VM DB Systems, Bare Metal DB Systems, Exadata DB Systems • Shapes for Bare Metal Database Systems • Exadata DB X7 Systems, Database Editions, Versions • Managing DB Systems, Patching, Backup/Restore • Automatic Backups, Data Guard Standby Database • Migration - Lift Shift to Cloud • Pricing - Bare Metal X7, Bring Your Own License (BYOL)
Exadata Patching Overview and Practice Cell CLI on Cracked Machine (Bonus)	**Overview of Exadata Patching** • Practice Cell CLI on Cracked Machine (Bonus) • Cracked VM provided for practice (supports 70% of cell CLI commands) • Cell CLI Command Cheat Sheet provided for practice

Hands-On Lab Overview

- Creating Compartments in OCI
- Creating VCN, Subnets in OCI
- Creating Route Rules in OCI
- Creating a Security List, Firewall Rules
- Creating Security Groups
- Creating Virtual Gateways, IGW, NAT, DRG, Service Gateway
- Creating VM, analyzing the Shapes Available in OCI
- Connecting to Instances from Windows, Linux Machines
- Managing Private Keys, Passwords
- Stop, Start Compute via Console, API
- Moving Compute Across Compartments in OCI
- Moving Compute Across Regions in OCI
- Block Storage, Creating Block Volumes, Volume Backups
- Object Storage, Creating Object Storage, Uploading, Downloading from Object Storage
- Backing up a Volume, Restoring
- Overview of Creating Policies, Users, Group

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