

ORACLE CLOUD INFRASTRUCTURE COURSE CONTENT

1. Introduction and Course Outline

- ✚ Who should take this course?
- ✚ Expected Outcome
- ✚ Course Prerequisites
- ✚ Required Infrastructure
- ✚ Course details

2. Overview of Cloud Computing

- ✚ What is Cloud Computing
- ✚ How does Cloud Computing Work?
- ✚ Traditional IT
- ✚ Cloud Model
- ✚ Enterprise Infrastructure and the Cloud
- ✚ Cloud Vs On-Premise
- ✚ What is Different?
- ✚ Who should learn Cloud?
- ✚ Benefits of Cloud Computing
- ✚ Type of Cloud Computing
 - Infrastructure-as-Service (IaaS)
 - Platform-as-Service (PaaS)
 - Software-as-Service (SaaS)
- ✚ Cloud Deployment Models
 - Public Cloud
 - Private Cloud
 - Hybrid Cloud

3. Overview of Oracle Cloud Services

- ✚ About Oracle Cloud
- ✚ Oracle Cloud Platform
- ✚ Oracle Cloud Infrastructure
- ✚ Data Regions and Availability Domains
- ✚ Oracle Cloud Infrastructure Architecture
- ✚ Overview of Oracle Cloud Subscription

- Trail & Paid Subscriptions
- ✚ Cloud Pricing Information
- ✚ Cost Estimator
- ✚ Payment Plans
 - Pay-As-You-Go
 - Monthly Flex
- ✚ Signing up for Oracle Cloud Account

4. Getting Started with Oracle Cloud Services

- ✚ Signing into Oracle Cloud Account
- ✚ About My Services Dashboard
- ✚ Customizing the Dashboard
- ✚ Setting Notification Preferences
- ✚ Modifying Language and Time Zone Preferences
- ✚ Viewing Service Details
- ✚ Monitoring your Cloud Service Usage

5. Introduction to Oracle Cloud Infrastructure (OCI)

- ✚ What is OCI?
- ✚ OCI Services
- ✚ OCO Architecture
- ✚ Accessing OCI Services
- ✚ Authentication and Authorization
- ✚ Security Credentials
- ✚ Service Limits

6. Getting Started with Oracle Cloud Infrastructure

- ✚ Signing into the Console
- ✚ Becoming familiar with Console
- ✚ Quick overview of OCI Services
- ✚ Understanding Service Limits

7. OCI Concepts and Terminology

- ✚ Regions
- ✚ Availability Domains
- ✚ Fault Domains
- ✚ Resource Availability - Global, Regional, AD

- ✚ Resource Identifiers - OCID, Name, Display Name

- ✚ Resource Tags

8. Identity and Access Management (IAM)

- ✚ What is IAM?

- ✚ IAM Components - Resource, Tenancy, Compartments, Users, Groups, Policies, Home Region

- ✚ Scope of IAM Resources

- ✚ Managing Regions

- ✚ Managing Tenancy

- ✚ Managing Compartments

- ✚ Managing Users

- ✚ Managing Groups

- ✚ Managing Policies

9. Virtual Cloud Network (VCN)

- ✚ Networking Concepts and Terminology

- ✚ Virtual Cloud Network (VCN)

- ✚ Subnets

- ✚ VNICs

- ✚ Internet Gateway, Dynamic Routing Gateway (DRG)

- ✚ Security Lists

- ✚ Stateful and Stateless rules

- ✚ Firewall Rules

- ✚ Route Tables and DHCP options

- ✚ Managing VCNs and Subnets

10. Compute Service

- ✚ Overview of Compute Service

- ✚ Instances

- ✚ Bare Metal Instances

- ✚ Virtual Machine Instances

- ✚ Images and Custom Images

- ✚ Compute Shapes and Key Pairs

- ✚ Boot Volumes, Block Volumes

- ✚ Creating and Managing Instances
- ✚ Managing Boot and Block Volumes
- ✚ Managing Key Pairs

11. Object Storage Service

- ✚ Overview of Object Storage Service
- ✚ Use cases for Object Storage
- ✚ Object Storage Features
- ✚ Object Storage Resources
- ✚ Object, Bucket, Namespace
- ✚ Storage Tiers – Standard, Archive
- ✚ Pre-Authenticated Requests
- ✚ Managing Buckets
- ✚ Managing Objects
- ✚ Data Transfer Service
- ✚ Data Transfer Disk
- ✚ Data Transfer Appliance

12. Load Balancing Service

- ✚ Overview of Load Balancing
- ✚ How Load Balancing works?
- ✚ Public and Private Load Balancers
- ✚ Load Balancing Concepts
- ✚ Backend Servers, Backend Set
- ✚ Health Checks, Listener, Load Balancing Policy
- ✚ Creating and Managing Load Balancers
- ✚ Managing Backend Sets
- ✚ Managing Backend Servers
- ✚ Managing Load Balancer Listeners

13. Database Service

- ✚ Overview of OCI Database Service
- ✚ DB Systems – Exadata, Bare Metal, Virtual Machine DB Systems
- ✚ Autonomous Databases

- ✚ Autonomous Transaction Processing
- ✚ Autonomous Data Warehouse
- ✚ License Types – BYOL, License Included
- ✚ Supported DB Editions and Versions
- ✚ Compute Shapes and Storage Options
- ✚ Launching and Managing DB Systems
- ✚ Launching and Managing Autonomous Databases

14. Oracle Cloud Infrastructure DNS Service

- ✚ What is DNS service?
- ✚ DNS Service Components – Domain, Zone, Resource Records
- ✚ Capabilities of Oracle Cloud Infrastructure DNS
- ✚ Using Oracle Cloud Infrastructure DNS

15. Working with OCI CLI

- ✚ What is OCI CLI?
- ✚ Installing CLI
- ✚ Configuring CLI
- ✚ Using the CLI

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