

**OCI-AE: Oracle Cloud Infrastructure Administration Essentials Ed 2**

Course Code: OCI-AE

Duration: 3 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

**OVERVIEW**

Develop key insights into key concepts and features of Oracle Cloud Infrastructure (OCI). Identify how the OCI's global distribution of infrastructure components can assist your enterprise, learn to extend your IT infrastructure with highly customizable Virtual Cloud Networks (VCN) and connectivity services. With network in place, launch your first compute instance, and define storage volumes.

Also learn to deploy a highly available web application utilizing services like load balancer and distributing infrastructure across multiple availability domains. Discover the various Oracle Database options available on OCI from VM DB to Autonomous Database to Bare Metal DB. With these OCI components in place, get insights to securing OCI, DNS, and understand OCI WAF capabilities and architecture.

**SKILLS COVERED**

After completion of this course, participants will be able to:

- Understand compartments and policies
- Launch their first compute instance
- Configure Object and Block Storage
- Configure a public load balancer
- Configure File System Storage
- Describe Database options on OCI
- Explain OCI WAF capabilities and architecture

**WHO SHOULD ATTEND?**

This course is designed for:

- Cloud Administrator
- Implementer

**PREREQUISITES**

- Basic concepts of Cloud computing
- Understanding of Networks

**MODULES****Module 1: Getting Started with Oracle Cloud Infrastructure**

- Oracle Cloud Infrastructure Strategy
- Regions + Availability Domains
- Off-Box Network Virtualization
- Oracle Cloud Infrastructure Services

**Module 2: Identity and Access Management Service**

- Tenants and Compartments
- Authorization and Policies
- Access Control Using Compartments

**Module 3: Virtual Cloud Network Service**

- Subnets
- Security Rules, Route Table
- VCN Components
- Multiple VNICs for Instances

**Module 4: Connectivity to on-premises Networks**

- OCI VPN
- IPSec VPN
- FastConnect

**Module 5: Compute Service**

- Compute: Bare Metal & Virtual Machines
- Images and Custom Images
- Boot Volumes

#### **Module 6: Block Volume Local NVMe Storage**

- Block Volume Service
- Local NVMe SSD Devices
- Managing Block Storage Volumes

#### **Module 7: File Storage**

- File Storage Service Features
- Mounting an OCI File System
- File Storage Services Snapshot

#### **Module 8: Object Storage Service**

- Object Storage Service Features
- Cross-region Copy
- Managing Access and Authentications

#### **Module 9: Load Balancing Service**

- Public/Private Load Balancing
- Public Load Balancer Example Configuration

#### **Module 10: Data Migration**

- Planning
- Offline and Online Transport
- Data Transfer Appliance
- Storage Gateway

#### **Module 11: Database Service**

- Database Service: Use Cases
- Database Service: Platform Offerings
- Bare Metal Database System
- Database Editions and Versions

#### **Module 12: Autonomous Database Cloud Service**

- Deployment Options
- Autonomous Database - Serverless
- Autonomous Database - Dedicated

#### **Module 13: Oracle Cloud Infrastructure DNS Service**

- Capabilities of Oracle Cloud Infrastructure DNS
- Using Oracle Cloud Infrastructure DNS

#### **Module 14: Traffic Management Policies**

- Traffic Management Concepts
- Health Checks

#### **Module 15: Oracle Cloud Infrastructure Security Overview**

- Oracle Cloud Infrastructure Security Capabilities

#### **Module 16: Key Management**

- Key Management capabilities
- IAM Integration with Key Management
- Key Management – Design Considerations

#### **Module 17: Web Application Firewall**

- WAF Concepts and Use Cases
- WAF Architecture and Benefits

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