# Oracle Cloud Infrastructure Architect Associate (2023): Hands-on Workshop Training

Duration: **5 Day**

BILGINC IT Academy
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## Overview

Oracle Cloud Infrastructure Architect Associate (2023): Hands-on Workshop provides participants with a broad and practical understanding of Oracle Cloud Infrastructure.

The course focuses on the architectural knowledge and technical skills required to design scalable, secure, and efficient OCI solutions. By combining conceptual learning with hands-on activities, participants gain practical experience across core OCI areas including networking, compute, storage, databases, identity management, security, and observability.

The workshop format is designed to help learners evaluate real-world cloud infrastructure requirements and confidently select, configure, and manage appropriate OCI services.

## Prerequisites

Participants should have:

- Basic knowledge of cloud computing concepts
- Familiarity with networking, storage, and general IT infrastructure
- Previous experience with any cloud platform is beneficial but not required

## Who Should Attend

This course is suitable for:

- IT professionals moving into cloud-focused roles
- System architects and engineers involved in cloud solution design
- Developers who want to expand their OCI knowledge
- Technical managers responsible for cloud transformation initiatives

## What You Will Learn

By the end of the course, participants will be able to:

- Understand and implement core OCI services including compute, storage, networking, and databases.
- Apply Identity and Access Management principles to secure cloud environments.
- Design and configure Virtual Cloud Networks and connectivity solutions.
- Use advanced OCI capabilities such as Load Balancers, DNS Management, and Object Lifecycle Management.
- Manage databases, Object Storage, and Block Storage to support performance and availability requirements.
- Monitor and secure OCI resources using built-in observability and security services.

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## Outline

### Module 1: Introduction to OCI

- Overview of Oracle Cloud Infrastructure
- Core OCI architecture and major components

### Module 2: Identity and Access Management (IAM)

- Identity Domains
- Authentication (AuthN)
- Authorization (AuthZ)
- OCI Policies
- Compartments
- Tag-Based Access Control

### Module 3: Networking – Virtual Cloud Network (VCN)

- Introduction to Virtual Cloud Networks
- Subnets
- Security Lists
- Gateway types
- CIDR notation
- RFC 1918 addressing

### Module 4: Networking – Connectivity

- OCI connectivity options
- Dynamic Routing Gateway (DRG)
- VPN connectivity
- FastConnect
- Peering Connections

### Module 5: Networking – Load Balancer and DNS Management

- Public and Private Load Balancers
- Network Load Balancer policies
- OCI DNS Service
- Private DNS
- Traffic Management

### Module 6: Networking – Advanced Concepts

- IPv6 integration
- Inter-Region Latency Dashboard
- Network Visualizer

### Module 7: Compute Services

- OCI Compute Shapes
- Custom Images
- Preemptible Instances

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- Autoscaling
- Comparing Bare Metal, Virtual Machines, and Dedicated Hosts

### Module 8: Object and Block Storage

- Core characteristics of Object Storage
- Object Lifecycle Management
- Auto-Tiering
- Block Volume performance options
- Block Volume backups
- Cloning
- Cross-Region Replication

### Module 9: File Storage and Database Management

- File Storage concepts
- File Storage security
- Snapshot management
- Database System operations
- Database maintenance activities

### Module 10: Security and Observability

- Shared Security Model
- Cloud Guard
- Encryption fundamentals
- Vault integration
- Monitoring services
- Metric Queries

### Module 11: Observability and Logging

- Service Logs
- Custom Log Management
- Alarm configuration