Oracle Cloud Infrastructure Foundations (2026): Hands-on Workshop Training

Duration: **1 Day**

BILGINÇ IT Academy
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Overview

Oracle Cloud Infrastructure Foundations (2026): Hands-on Workshop is a practical introductory course designed to help participants understand the core concepts, architecture, and services of Oracle Cloud Infrastructure.

The course covers essential OCI components such as compute, storage, networking, and security, while hands-on workshops and demonstrations give learners direct experience with the platform. The program helps individuals and teams understand how OCI capabilities can be applied to support business goals including scalability, performance, security, and enterprise transformation.

Prerequisites

Participants should have:

- A basic understanding of cloud computing concepts
- Familiarity with IT infrastructure areas such as networking, databases, and storage
- No previous Oracle Cloud experience is required; familiarity with other cloud platforms is beneficial

Who Should Attend

This course is suitable for:

- IT professionals and cloud architects moving to Oracle Cloud Infrastructure
- Developers building cloud-native applications on OCI
- System administrators responsible for on-premises-to-cloud migration projects
- IT managers, leaders, and other decision-makers seeking to understand OCI's role in enterprise transformation

What You Will Learn

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

- Explain the foundational concepts and architecture of Oracle Cloud Infrastructure.
- Identify and use OCI core services including compute, storage, networking, and security.
- Configure Identity and Access Management in OCI.
- Apply networking concepts such as VCNs, routing, and load balancing.
- Create and manage compute instances and container services.
- Use OCI storage solutions and data migration services.
- Apply OCI security features and governance tools.

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Outline

Introduction to OCI

- Overview of Oracle Cloud Infrastructure
- Cloud regions, hybrid cloud, and multi-cloud concepts
- Core infrastructure and database services
- Data management and analytics capabilities
- SaaS portfolio and third-party support
- OCI architecture, regions, and availability domains
- High availability and distributed cloud design
- Hybrid cloud services and Dedicated Region options
- Autonomous Database
- Oracle Database Service for Azure
- Demo: OCI Console walkthrough

Identity and Access Management

- Introduction to OCI IAM
- Identity concepts and resource management
- Compartments and access control
- Resource movement and quota management
- Authentication and authorization in OCI
- Tenancy configuration
- Demo: Compartments, Identity Domains, AuthN, and AuthZ

Networking

- Introduction to OCI Networking
- Virtual Cloud Network (VCN) and address space
- Routing, route tables, and peering
- Dynamic Routing Gateway v2
- Security Lists and Network Security Groups
- Load Balancer and Network Load Balancer
- Demo: VCN creation, networking basics, and load balancing

Compute

- Introduction to OCI Compute services
- Flexible Shapes and processor options
- Instance fundamentals and Live Migration
- Vertical Scaling and Autoscaling
- Oracle Container Engine for Kubernetes (OKE)
- Container orchestration and management
- Container Instances and Oracle Functions
- Demo: Cloud Shell and Compute Instance creation

Storage

- Storage requirements and OCI storage services
- Data Migration services
- Object Storage use cases, resources, tiers, and encryption

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- Accessing stored data and Auto-Tiering
- Block Volume tiers, encryption, replication, and resizing
- File Storage use cases and service overview
- Demo: Object Storage and Block Volume

Database

- Introduction to OCI Database services
- Autonomous Database and automation capabilities
- MySQL Database Service
- HeatWave
- Demo: Autonomous Database

Security

- Shared Security Model
- OCI security services
- Cloud Guard
- Security Zones
- Security Advisor
- Encryption fundamentals
- Hardware Security Module (HSM)
- Vault and Key Management
- Demo: Security Zone, Security Advisor, and Vault

Governance and Administration

- Pricing models and cost management
- Data transfer costs
- Usage reports
- Service Limits
- Compartment Quotas
- Tagging
- Demo: Cost Management and Cloud Advisor