

OCIN-2 - ORACLE CLOUD INFRASTRUCTURE ARCHITECT ASSOCIATE

Categoria: **Cloud Infrastructure**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
Cloud Infrastructure



Qualifica Istruttore:
Oracle Certified
Professional



Dedicato a:
Professionista IT



Produttore:
Oracle

OBIETTIVI

- Develop key insights into key concepts and features of Oracle Cloud Infrastructure (OCI).
- Identify how OCI's global distribution of infrastructure components can assist your enterprise.
- Deploy and manage OCI storage solutions to ensure efficient data storage, retrieval, and cost-effective management across different use cases.

PREREQUISITI

CONTENUTI

Module 01: OCI 2025 Architect Associate Course Overview

- Course Speakers
- For whom is this course intended?
- Course Outline
- Measuring Your Progress: Take the Skill Checks to Test Your Knowledge
- Get the Answers You Need: Use our "Ask Your Instructor" Form or Join the OU Community
- Best practices and retention tips

Module 02: Identity and Access Management Overview

- Introduction
- OCI IAM Identity Domains
- Identity Domain Types

Module 03: Identity and Access Management - Basics

- Managing OCI IAM Identity Domains
- Default Identity Domain
- Creating Identity Domains
- Demo: Creating Identity Domains
- Demo: Creating Groups
- Managing Groups
- Demo: Creating Users

- Managing Users
- Understanding the Administrator Role
- Demo: Understanding Administrator Role
- Policies
- Demo: Policies
- Compartments
- Compartment Quotas

Module 04: Identity and Access Management - Advanced

- Policy Inheritance and Attachment
- Demo: Policy Inheritance and Attachment
- Conditional Policies
- Demo: Creating Users
- Enforce Least Privileged: Advanced Policies
- Tag Based Access Control
- Demo: Tag Based Access Control
- Demo: Dynamic Groups
- Network Sources
- Demo: Network Sources
- Dynamic Groups
- Optimizing IAM Policies: Part 1
- Optimizing IAM Policies: Part 2
- Object-Level Granular Access Control for OCI Object Storage

Module 05: Expert Tip

Module 06: Networking - Virtual Cloud Network

- CIDR Block Prefixes
- Virtual Cloud Network - Networking –Virtual Cloud Network
- VCN Components- Quick Overview
- Subnets
- Demo: Create a VCN (Manually)
- Demo: Create a VCN (Using Wizard)
- Route Table
- Demo: Route Tables
- Internet Gateway
- Demo: Internet Gateway
- NAT Gateway
- Demo: NAT Gateway
- Service Gateway
- Demo: Service Gateway
- Public Subnet
- Demo: Public Subnet
- Private Subnet
- Demo: Private Subnet
- VCN Security
- Network Security Group
- Demo: Network Security Groups

- Security List
- Demo: Security Lists

Module 07: Networking - IP Management

- Overview of IP Management
- Reserved Public IP
- Bring Your Own IP Address (BYOIP)
- Public IP Pools
- Demo: IP Management

Module 08: Networking - Connectivity

- VCN Connectivity Options
- Local VCN Peering
- Demo: Local VCN Peering
- Remote VCN Peering
- Demo: Remote VCN Peering
- BGP Basics
- Dynamic Routing Gateway
- Demo: Dynamic Routing Gateway
- Site-to-Site VPN
- Demo: Site-to-Site VPN
- FastConnect Overview
- FastConnect with an Oracle Partner
- FastConnect with a Third-Party Provider
- FastConnect Colocation with Oracle
- Demo: FastConnect
- FastConnect Redundancy Best Practices

Module 09: Expert Tip 2

Module 10: Networking - Load Balancer

- Load Balancer
- Load Balancer Policies
- Load Balancer Health Checks
- Public Load Balancers
- Demo: Public Load Balancer
- Private Load Balancers
- Demo: Private Load Balancer
- Network Load Balancer
- Demo: Network Load Balancer
- Web Application Acceleration Overview
- Web Application Acceleration Concepts
- Demo: Web Application Acceleration

Module 11: Networking - DNS Management

- What Is DNS?
- DNS Service Components
- Zones
- Public DNS Zone

- Demo: Public DNS Zone
- Private DNS Zone
- Demo: Private DNS Zone
- Private Views
- HTTP Redirects
- Traffic Management
- Traffic Management Policy Types
- Demo: Failover Policy Type
- Demo: Load Balancer Policy Type
- Demo: Geolocation Steering Policy Type

Module 12: Networking - Network Command Center

- Network Command Center Overview
- Inter-Region Latency
- Demo: Inter-Region Latency
- Network Path Analyzer
- Demo: Network Path Analyzer
- Network Visualizer
- Demo: Network Visualizer
- Capture Filters
- Demo: Capture Filters
- Virtual Test Access Points
- Demo: Virtual Test Access Points

Module 13: Expert Tip

Module 14: Compute - Basics

- Overview of Compute Service
- Platform and Custom Images
- Import/Export and Bring Your Own Image
- Compute Shapes
- GPU Shapes
- Bare Metal versus VM versus Dedicated Hosts
- Demo: Generate SSH Keypair
- Demo: Launch and Connect to an Oracle Linux Instance
- Demo: Launch and Connect to a Windows Instance
- Demo: Create a Custom Image
- Capacity Types: Preemptible Instances
- Demo: Preemptible Instances
- Capacity Types: Capacity Reservations
- Demo: Create a Capacity Reservation and Launch Instances
- Capacity Types: Dedicated VM Host
- Demo: Dedicated VM Host

Module 15: Compute - Advanced

- Burstable Instances
- Demo: Create a Burstable Instances
- Compute: Vertical Scaling

- Demo: Scale Cores and Memory for an Instance
- Compute Autoscaling
- Demo: Autoscaling
- Oracle Cloud Agent
- Oracle OS Management Hub (OSMH)
- Oracle OS Management Hub (OSMH) Components
- Oracle OS Management Hub (OSMH) for OCI Instances
- Oracle OS Management Hub (OSMH) Management Station
- Oracle OS Management Hub (OSMH) Lifecycle Environments
- Demo: Run Command
- Run Command
- Instance Console Connection
- Demo: Console Connection
- Infrastructure Maintenance
- Shielded Instances
- Demo: Create a Shielded Instance
- Confidential Computing

Module 16: Object Storage - Basics

- Overview of Object Storage
- Object Storage Resources
- Object Storage Characteristics
- Demo: Create a Bucket - Console, Cloudshell, OCI CLI
- Demo: Upload and Access the Object & Bucket Visibility
- Multipart Uploads
- Demo: Multipart Uploads
- Managing Buckets and Objects
- Object Storage Tiers
- Auto-Tiering
- Demo: Update Storage Tier (Manually, Auto-Tiering)
- Object Lifecycle Management
- Demo: Update Storage Tier (Lifecycle Management)

Module 17: Expert Tip

Module 18: Object Storage - Advanced

- Object Storage Replication
- Demo: Replication Policy
- Object Versioning
- Demo: Object Versioning
- Demo: Replication Policy with Versioning
- Retention Rules
- Demo: Retention Rules - Time Bound and Indefinite
- Object Copy
- Demo: Object Copy
- Object Storage Logging
- Demo: Object Storage Logging
- Securing Object Storage

- Pre-Authenticated Requests
- Demo: Create a Pre-authenticated request
- Demo: Create a Bucket with Customer Managed Key
- Demo: Re-encrypt an Object
- Demo: Create automation based on object state changes

Module 19: Block Storage - Basics

- Overview of Block Volume
- Volume Attachment Types
- Volume Access Types
- Boot Volumes
- Demo: Block Volume Creation
- Demo: Attach Block Volume to Instance - iSCSI attachment
- Demo: Attach Block Volume to Instance - Paravirtualized attachment
- Demo: Configure Multiple Instance Volume Attachments - Part 1
- Demo: Configure Multiple Instance Volume Attachments - Part 2
- Block Volume Performance
- Dynamic Performance Scaling

Module 20: Block Storage - Advanced

- Resizing a Volume
- Demo: Volume Resize and Extend Partition
- Block Volume Backups
- Demo: Create a Block Volume Backup
- Demo: Create a Backup Policy and define schedule
- Demo: Restore a Block Volume Backup
- Demo: Copy Block Volume Backup to another region
- Block Volume Clones
- Demo: Create a Block Volume Clone
- Block Volume Backup Versus Clone Operation
- Cross Region Replication
- Demo: Cross Region Replication
- Volume Groups
- Demo: Volume Groups
- Demo: Volume Groups Cross Region Replication
- Cross Availability Domain Replication
- Demo: Cross Availability Domain Replication
- Demo: Block Volume Encryption

Module 21: File Storage - Basics

- Overview of File Storage
- File Storage Concepts
- Demo: Create and Mount a File System
- NFS Export Options
- Demo: NFS Export Options
- File System Paths

Module 22: File Storage - Advanced

- File System Snapshots
- Demo: Create a Snapshot and Perform Restoration
- File System Cloning
- Demo: Clone a File System
- Demo: Encrypt using Customer Managed Keys
- In-Transit Encryption
- Demo: Set up In-transit encryption
- File System Replication
- Demo: File Storage Replication
- File Storage Security
- File System Usage and Metering

Module 23: Expert Tip

INFO

Materiale didattico: Materiale didattico ufficiale Oracle in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)