OCIN-2 - ORACLE CLOUD INFRASTRUCTURE ARCHITECT ASSOCIATE

Categoria: **Cloud Infrastructure**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
5 Giorni	Cloud Infrastructure	Oracle Certified Professional	Professionista IT	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)