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Oracle Cloud Infrastructure (OCI) Architect Training Curriculum Online by Certified Consultant

Module 1: Introduction to Oracle Cloud Infrastructure (OCI)

- Overview of Cloud Computing Concepts
- Introduction to Oracle Cloud Infrastructure (OCI)
- OCI Global Architecture
- Regions, Availability Domains, and Fault Domains
- OCI Core Services Overview
- OCI Free Tier and Subscription Models
- OCI Console Navigation
- OCI Architect Certification Overview

Module 2: OCI Identity and Access Management (IAM)

- IAM Fundamentals
- Users, Groups, and Compartments
- Policies and Permissions
- Dynamic Groups
- Resource Principals
- Federation and Single Sign-On (SSO)
- Multi-Factor Authentication (MFA)
- Security Best Practices

Module 3: OCI Networking Fundamentals

- Virtual Cloud Network (VCN)
- Subnets and CIDR Blocks
- Public and Private Subnets
- Internet Gateway
- NAT Gateway
- Service Gateway
- Dynamic Routing Gateway (DRG)
- Route Tables and Security Lists

Module 4: Advanced OCI Networking



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- Network Security Groups (NSG)
- VCN Peering
- Local Peering Gateway (LPG)
- Remote Peering Connections (RPC)
- FastConnect
- Site-to-Site VPN
- Load Balancers
- DNS and Traffic Management

Module 5: Compute Services

- OCI Compute Instances
- Virtual Machines (VMs)
- Bare Metal Servers
- Shapes and Sizing
- Instance Configuration
- Autoscaling
- Instance Pools
- Custom Images

Module 6: Storage Services

- Block Volume Storage
- Object Storage
- Archive Storage
- File Storage Service (FSS)
- Storage Tiering
- Backup and Recovery
- Volume Cloning
- Data Lifecycle Management

Module 7: OCI Database Services

- Oracle Autonomous Database
- Autonomous Transaction Processing (ATP)
- Autonomous Data Warehouse (ADW)
- Oracle Database Cloud Service
- Exadata Cloud Service
- Database Backup and Recovery
- High Availability Options
- Database Migration Strategies



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Module 8: Security and Compliance

- OCI Security Architecture
- Data Encryption
- Key Management Service (KMS)
- Vault Service
- Web Application Firewall (WAF)
- Cloud Guard
- Security Zones
- Compliance and Governance

Module 9: OCI Monitoring and Management

- Monitoring Service
- Alarms and Notifications
- Logging Service
- Logging Analytics
- Events Service
- Resource Manager
- Service Connector Hub
- Operational Best Practices

Module 10: High Availability and Disaster Recovery

- High Availability Design Principles
- Fault Domains and Availability Domains
- Multi-Region Deployments
- Backup Strategies
- Disaster Recovery Planning
- Database DR Solutions
- Business Continuity Planning
- Recovery Testing

Module 11: OCI Load Balancing and Traffic Management

- Load Balancer Concepts
- Public and Private Load Balancers
- Backend Sets and Health Checks
- SSL/TLS Configuration



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- Traffic Distribution Methods
- Traffic Management Steering Policies
- Performance Optimization
- Load Balancing Best Practices

Module 12: OCI Containers and Kubernetes

- Introduction to Containers
- Docker Fundamentals
- OCI Container Registry (OCIR)
- Oracle Kubernetes Engine (OKE)
- Cluster Deployment
- Application Deployment on OKE
- Scaling and Monitoring
- Kubernetes Security

Module 13: OCI DevOps and Automation

- OCI DevOps Services
- Continuous Integration (CI)
- Continuous Delivery (CD)
- Build Pipelines
- Deployment Pipelines
- Infrastructure as Code (IaC)
- Terraform with OCI
- Automation Best Practices

Module 14: OCI Integration Services

- Oracle Integration Cloud (OIC)
- API Gateway
- Event-Driven Architectures
- Messaging Services
- Streaming Services
- Hybrid Cloud Integration
- Third-Party Integration
- Microservices Architecture

Module 15: Migration to OCI



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- Cloud Migration Strategy
- Migration Assessment
- Oracle Cloud Migrations
- Data Migration Tools
- Database Migration Service
- Workload Migration Planning
- Lift-and-Shift Approach
- Migration Best Practices

Module 16: Cost Management and Governance

- OCI Pricing Models
- Cost Analysis and Reporting
- Budget Management
- Resource Tagging
- Governance Framework
- Cost Optimization Strategies
- Chargeback and Showback
- FinOps Fundamentals

Module 17: Architecting Solutions on OCI

- Well-Architected Framework
- Multi-Tier Application Architecture
- Secure Network Design
- Scalable Application Design
- Hybrid Cloud Architecture
- Multi-Cloud Integration
- Reference Architectures
- Design Patterns

Module 18: OCI AI, Analytics, and Data Services

- OCI AI Services Overview
- Data Science Service
- OCI Generative AI
- Big Data Service
- Data Flow Service
- Oracle Analytics Cloud Integration
- Machine Learning Workloads
- AI Solution Architecture



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Module 19: Real-Time Industry Use Cases

- Enterprise Web Application Deployment
- Disaster Recovery Architecture
- Data Warehouse Solutions
- E-Commerce Platform Design
- Hybrid Cloud Deployment
- Kubernetes-Based Microservices
- High Availability Database Architecture

Module 20: Capstone Project

- End-to-End OCI Architecture Design
- Secure Network Implementation
- Compute and Storage Deployment
- Database Service Configuration
- Kubernetes Cluster Setup
- Monitoring and Security Configuration
- Disaster Recovery Planning
- Final Architecture Presentation