

Oracle Cloud Infrastructure Security

1 : Course Introduction

- Course Introduction

2 : Security Introduction

- Shared Security Responsibility Model
- Zero Trust Security
- Security Services Introduction
- Security Design and Controls

3 : Identity and Access Management

- IAM
- AuthN
- AuthZ
- Common Policies
- Compartments
- Policy Inheritance and Attachment for compartments
- Conditional Policies
- Advanced Policies
- Tag-Based Access Control
- Dynamic Groups
- IAM- Federation
- Understanding Sign-In Options

4 : Infrastructure Security - Network

- VCN Intro
- Security Lists and NSG
- VCN Connectivity
- VPN Connect
- FastConnect
- Local and Remote Peering
- Transit Routing
- Domain Name System
- Public DNS Zones

- Private DNS Zones
- IAM Policies for Admins/Users
- Load Balancer Concepts
- Public and Private Load Balancer
- Load Balancer Policies, Health Checks
- Load Balancer - SSL Handling
- Bastion Host

5 : Infrastructure Security - Compute

- Compute Security Best Practices
- Shielded Instances
- OS Management Intro
- Dedicated VM Hosts
- Vulnerability Scanning
- Security for OKE: Overview
- Security for OKE: IAM Policies and RBAC
- Security for OKE: Kubernetes Secrets
- Security for OKE: Cluster Security
- Security for OKE: Node Pool Security
- Security for OKE: Network Security
- Security for OKE: Multi-Tenant Considerations
- Security for OKE: Image Security
- Security for Oracle Functions: Overview
- Controlling Invoke and Management Access with IAM Policies
- Defining Network Sources for Restricting Access to Functions
- Leveraging Oracle Functions Support for Private Network Access
- Adding Applications to Network Security Groups for Fine-grained Ingress/Egress Rules
- Understanding Limited Permissions Granted to Function Containers
- Ensuring Container Image Security using Signing and Scanning

6 : Data and Database Security

- Encryption Basics
- Vault Introduction
- Import and Export Keys
- OCI Services Integration with Vault
- Back up and Replicate Vaults and Keys
- Vault Secrets
- Database Security
- ADB Security
- Data Safe
- Object Storage Security

- Managing Access and Authentication
- Object Storage Lifecycle Management
- Object Storage Replication
- Object Storage Versioning
- Object Storage Retention Rules
- Object Storage Logging
- File Storage (refresher)
- File Storage Security
- Block Storage (refresher)

7 : Application Security

- OCI Web Application Firewall
- WAF components

8 : Cloud Security Posture Management

- What is Cloud Security Posture Management ?
- Cloud Guard - Introduction
- Enable Cloud Guard
- Cloud Guard - Concepts
- Cloud Guard Problems
- Cloud Guard Detector Recipes
- Cloud Guard Responder Recipes
- Cloud Guard Notifications
- Security Zones and Security Advisor

9 : Security Operations

- Managing Security Operations
- Monitoring
- Logging
- Ingesting Logs for Analytics
- Insights with Logging Analytics
- Audit

10 : Regulatory Compliance

- Regulatory Compliance
- Cloud Paradigm
- Security Best Practices for a Tenant in OCI