

## OCI-CIOAW: Oracle Cloud Infrastructure Operations Associate Workshop

Course Code: OCI-CIOAW

Duration: 2 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

### OVERVIEW

This course is going to walk you through some of the day-to-day operational activities that you might find yourself managing in the Oracle Cloud Infrastructure ecosystem.

Kick things off with a dive into the automation components, OCI CLI, Terraform, Resource Manager, and Ansible. Next we deal with a few operational tasks associated to custom images, OS management, traffic management, security best practices, and troubleshooting.

At the end of the day, it is critical for the environment to expand with the needs of the application or the customer requirements and at the same time manage costs. Learn to plan your scaling operations, and setup alerting, proper cost management of our environment and troubleshoot any issues encountered.

### SKILLS COVERED

Upon completion of this course, participants will learn to:

- Use OCI CLI to create, discover, and terminate resources
- Create shell scripts using OCI CLI
- Use Oracle Resource Manager
- Provision a simple set of OCI resources with Ansible
- Manage custom images

- Network Security Architecture: VCN, Load balancer, and DNS
- Describe Scaling options
- Billing and account management options in OCI Console
- Troubleshooting

### WHO SHOULD ATTEND?

This course is best suited for:

- Professionals responsible for managing infrastructure solutions using Oracle Cloud Infrastructure services
- DevOps Engineers

### PREREQUISITES

- Basic Computer Knowledge.

### MODULES

#### Module 1 : Automating Cloud Tasks

- Course Overview
- Introduction to Cloud Automation
- Different Ways to Access OCI
- Automation Tools: Basic Capabilities
- Knowledge Check
- OCI CLI and Cloud Shell
- Introduction to Cloud Shell
- Demo: Cloud Shell
- Terraform on OCI and OCI Resource Manager
- Terraform Configuration Files: OCI Provider
- Terraform Install
- Terraform Plan
- Oracle Resource Manager
- Demo: Resource Manager
- Ansible on OCI
- How Ansible Works
- OCI Ansible Modules

#### Module 2 : Operational Activities on OCI

- OCI Compute Operations
- DR Considerations
- OS Management with Oracle Cloud Infrastructure
- OS Management with Oracle Linux
- OS Management with Window
- Load Balancer Concepts
- OCI Load Balancer Overview
- Policies, Health Checks
- Health Check Policy
- Demo: Provisioning a Load Balancer - Part 1
- Demo: Provisioning a Load Balancer - Part 2
- Load Balancing Request Routing
- Load Balancing SSL Certificates
- Load Balancing Metrics
- Oracle Cloud Infrastructure Traffic Management and Health Checks
- OCI Health Checks
- OCI Traffic Management
- OCI Storage Options Overview
- Block Storage Overview
- Block Storage Backups
- Block Storage Cloning
- Volume Groups
- Block Storage Replicas
- Shared Multi-Attach
- Oracle Cloud Infrastructure Storage Operations
- Demo: File Storage Creation
- File Storage Operations
- Object Storage Overview
- Managing Buckets and Objects
- Pre-Authenticated requests
- Life Cycle Management
- Managing Multipart uploads
- Replication
- Versioning
- Retention Rules
- Security

### Module 3 : Troubleshooting OCI Services

- Oracle Cloud Infrastructure Troubleshooting

- Instance Console Connections
- Demo: Console Connection
- Diagnostic Interrupt and Attach Boot as Block Volume
- User Data Execution
- Troubleshoot Performance
- DRG , IPSec Connection, FastConnect Overview
- IPSec Connection Testing
- Load Balancer Health Status
- Backup Copy Common Errors
- Block Storage Recovery
- Block Storage Multi Attach
- Block Storage Volume Resize
- NVME Device Failures
- Troubleshooting OCI File Storage Service
- Cannot Attach Multiple File Systems to a Mount Target Due to a Path Conflict

### Module 4 : Securing OCI

- Identity and Access Management
- Policy Inheritance and Attachment
- Moving Compartments
- Oracle Cloud Infrastructure Security
- OCI Vault Service
- OCI Audit Service

### Module 5 : Monitoring, Notification, Logging

- Monitoring and Notifications
- Metrics
- Alarms
- Notifications Overview
- Events Overview
- OCI Notifications Scenarios

### Module 6 : Pricing, Billing, Support

- Cost Analysis Budgets and Usage Reports
- Service Limits and Usage
- Cost Management : Best Practices
- Pricing Models
- Factors that Impact Pricing

- Block Volume Pricing
- Data Transfer Costs
- Pricing Example
- Free Tier + Always Free
- SLA and Support
- OCI SLA
- OCI Support

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