Course : Oracle Cloud Infrastructure Operations Associate Workshop

OFFICIAL COURSE: DIGITAL SUPPORT AVAILABLE FOR 90 DAYS ONLY

Practical course - 3d - 21h00 - Ref. OCO

With this training course, you'll discover the day-to-day operational activities you can manage in the Oracle Cloud Infrastructure ecosystem. You'll start with a deep dive into the automation components, OCI CLI, Terraform, Resource Manager and Ansible. Next, you'll cover tasks associated with custom images, OS and traffic management, security best practices and troubleshooting. Finally, you'll learn how to plan your scaling operations, configure alerts and manage the costs of your environment.

Teaching objectives

At the end of the training, the participant will be able to:

- Use the OCI command-line interface to create, discover and terminate resources
- Create shell scripts using the OCI command line interface
- Using Oracle Resource Manager
- Providing a simple set of OCI resources with Ansible
- Manage custom images
- Describe network security architecture: VCN, load balancer and DNS
- Describe scaling options
- Discover billing and account management options in OCI Console
- Troubleshooting methods

Intended audience
DevOps and operations engineers.

Prerequisites
Completion of Oracle Cloud Infrastructure Foundations training or equivalent knowledge and skills. Understanding of English and IT-specific English vocabulary.

PARTICIPANTS
DevOps and operations engineers.

PREREQUISITES
Completion of Oracle Cloud Infrastructure Foundations training or equivalent knowledge and skills. Understanding of English and IT-specific English vocabulary.

TRAINER QUALIFICATIONS
The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS
Assessment of targeted skills prior to training.
Assessment by the participant, at the end of the training course, of the skills acquired during the training course.
Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.
At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.
An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

Certification

Successful completion of the exam leads to Oracle Cloud Infrastructure 2022 Cloud Operations Professional certification.

Comment passer votre examen ?

Practical details

Teaching methods

Training in French. Course material and practical exercises in English, in digital format and ACCESSIBLE ONLY FOR 90 DAYS. Good understanding of written English.

Course schedule

1 Introduction

- Interaction with OCI - The console, command-line interface, SDK and REST API.
- OCI CLI authentication - API keys, security tokens, instance principles, etc.
- OCI command line interface syntax.

2 Resource and configuration management

- Resource and configuration management.
- Configuration management.
- Ansible with OCI.
- Introduction to Terraform.
- Basic principles of the OCI resource manager.
- Synchronization of Resource Manager and infrastructure.
- Encapsulating Terraform.

3 Joint operational activities

- OCI calculation operations.
- Troubleshooting Oracle Cloud Infrastructure.
- Operating system management with Oracle Cloud Infrastructure.
- Load balancer.
- Oracle Cloud Infrastructure traffic management and health checks.
- Oracle Cloud Infrastructure storage operations.

4 Troubleshooting and disaster recovery

- Troubleshooting OCI network services.
- Troubleshooting the OCI Block Volume service.
- Troubleshooting the OCI file storage service.

5 Identity and access management

- Introduction - Identity and access management.
- AuthN.
- AuthZ.
- Common policies.
- Compartments.
- Inheritance and attachment strategies.
- Conditional strategies.
- Beacon-based access control.
- Dynamic groups.
- Federation.
- Identity domain.

6 Security services

- Design and safety controls.
- What is security posture management in the cloud?.
- Activate Cloud Guard.
- Cloud Guard Concepts.
- Cloud Guard Problems.
- Cloud Guard - Manage detector recipes.
- Cloud Guard Notifications.
- Safety zones and safety advisors.
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- Introducing Vault.
- Import and export keys.
- Integration of OCI services with Vault.
- Backup and replicate safes and keys.
- Secrets.
- Bastion.
- Securing applications in the cloud.
- Securing applications in the cloud.
- Presentation of observability and management services.

7 Observability and management

- Monitoring service - Getting started.
- Key concepts.
- Notifications Service.
- Access and limits.
- Service measures.
- Metric queries.
- Alarm management.
- Logging service.
- Fundamental concepts.
- Access, search and browse newspapers.
- Search logs using queries.

8 Billing and cost management

- Manage costs with budgets and budget alerts.
- Understand costs through cost analysis.
- Cost calculation and optimization: Calculation.
- Calculate and optimize costs: block storage.
- Calculate and optimize costs: file storage.
- Calculate and optimize costs: Object Storage.
- Calculate and optimize costs: Networking.
- Software licenses on OCI.

9 Governance and administration

- Governance and administration.
- Cloud advisor.
- Organization management.