

Course : Oracle Cloud Infrastructure Architect Associate Workshop

OFFICIAL COURSE: DIGITAL SUPPORT AVAILABLE FOR 90 DAYS ONLY

Practical course - 5d - 35h00 - Ref. OCA

With this training course, you'll gain an in-depth understanding of the key concepts and features of Oracle Cloud Infrastructure (OCI). You'll discover how the worldwide distribution of OCI infrastructure components can help your business.

Teaching objectives

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

- ✓ Get to know your architecture and user management on Oracle Cloud
- ✓ Discover the basics of VCN and network security
- ✓ Discover Load Balancer and Traffic Management concepts
- ✓ Explore OCI calculation and storage options
- ✓ Learn the concepts of autoscaling and operating system management
- ✓ Describe Oracle Cloud databases and their applications
- ✓ Securing OCI infrastructure with WAF
- ✓ Monitor infrastructure and applications using the OCI observability and management platform

Intended audience

Cloud administrators.

Prerequisites

Completion of Oracle Cloud Infrastructure Foundations training or equivalent knowledge and skills.

PARTICIPANTS

Cloud administrators.

PREREQUISITES

Completion of Oracle Cloud Infrastructure Foundations training or equivalent knowledge and skills.

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 Architect Associate 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 to OCI

2 Identity and access management

- Identity domains.
- AuthN.
- AuthZ.
- Common policies.
- Compartments.
- Legacy and political attachment.
- Conditional policies.
- Network sources.
- Beacon-based access control.
- Dynamic groups.

3 Networking - Virtual cloud network

- Introduction to the virtual cloud network.
- Introduction to CIDR notation.
- Introduction to RFC 1918.
- Introduction to Subnet.
- Security list.
- Network security group.
- Bastion.
- Internet gateway.
- NAT gateway.
- Service gateway.
- Local certification gateway.
- Routing table.

4 Networking - Connectivity

- Connectivity options.
- Dynamic routing gateway - Part 1.
- Dynamic routing gateway - Part 2.
- DRG routing tables.
- Remote certification connection.
- Site-to-site VPN.
- FastConnect.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

5 Networking - Load Balancer

- Load balancer.
- Public and private load balancers.
- Load balancing strategies and status checks.
- Network load balancer.

6 Networking - DNS management

- DNS Service.
- OCI DNS management.
- Private DNS.
- Traffic management.

7 Networking - Other services

- Inter-regional latency dashboard.
- Network Visualizer.
- Introduction to IPv6 with Oracle.
- Bring your own IP address.

8 Calculate

- Compute Service overview.
- Custom platform and images.
- Import/export and add your own image.
- Forms of calculation.
- Bare Metal versus VM versus Dedicated Hosts.
- Capability types: Preemptible Instances.
- Capacity types: capacity reservations.
- Capacity types: dedicated virtual machine host.
- Burstable Instances.
- Calculation: vertical scaling.
- Automatic calculation scaling.
- Oracle Cloud Agent.
- Operating system management service.
- Execute the command.
- Connection to instance console.
- Connection to instance console.
- Shielded instances.

9 Object storage

- Overview of object storage.
- Object storage resources.
- Object storage features.
- Partitioned downloads.
- Compartment and object management.
- Object storage levels.
- Automatic prioritization.
- Object lifecycle management.
- Object storage replication.
- Object version control.
- Storage rules.
- Copy object.
- Object storage logging.
- Securing object storage.
- Pre-authenticated requests.

10 Block storage

- Block volume overview.
- Volume attachment types.
- Types of volume access.
- Start-up volumes.
- Block volume performance.
- Automatic adjustment of volume performance.
- Resize a volume.
- Block volume backups.
- Block volume clones.
- Block volume backup compared to cloning operation.
- Replication between regions.
- Volume groups.

11 File storage

- Overview of file storage.
- File storage concepts.
- NFS export options.
- File storage.
- File system snapshots.
- File system cloning.
- Encryption in transit.
- File storage security.
- Use and control of the file system.

12 Database

- Introduction to OCI database services.
- DB systems overview.
- DB system operations.
- DB systems maintenance.
- Introduction to stand-alone databases.
- Stand-alone database operations.
- Autonomous database maintenance.
- Database services monitoring.
- External database service.
- Set the database time zone.
- Database migration.

13 BEC safety

- Shared security model.
- Presentation of security services.
- What is security posture management in the cloud?
- Introducing Cloud Guard.
- Cloud Guard concepts.
- Cloud Guard problems.
- Manage Cloud Guard detector recipes.
- Cloud Guard notifications.
- Safety zones and safety advisors.
- Basic principles of encryption.
- Introducing Vault.
- Import and export keys.
- Integration of OCI services with Vault.
- Backup and replication of safes and keys.
- Secrets.

14 Observability and management - Introduction

- Presentation of observability and management services.

15 Observability and management - Monitoring

- Monitoring service - Getting started.
- Key concepts.
- Notifications Service.
- Access and limits.
- Service measures.
- Metric queries.
- Alarm management.

16 Observability and management - Logging

- Logging service: overview.
- Fundamental concepts.
- Activate service logs.
- Use of custom logs.
- Access, search and browse newspapers.
- Search logs using queries.
- Service connectors.