ITTcert
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Course : Amazon Web Services (AWS) - Migrating to AWS

Official AWS course

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

With this training course, you'll learn how to plan and effectively migrate existing workflows to the AWS cloud. You'll explore the various cloud migration strategies and master the application at each stage of the migration process.

Teaching objectives

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

- Explain the various strategies for migrating to the cloud
- Assessing migration readiness
- Discover the look and feel of the migration plan
- Plan and design the application migration strategy
- Execute and validate the migration of an application to the cloud
- Optimize applications and operations after migration to the cloud

Intended audience

Architects and solution engineers involved in AWS migrations. IT managers involved in AWS migration projects. People working in a "cloud" center of excellence.

Prerequisites

Be familiar with enterprise infrastructure IT. Have completed the "Architecting on AWS" training course (Ref. AWW) and be certified as an "AWS Certified Solutions Architect Associate".

Certification

Official course without certification.

Comment passer votre examen ?

Practical details

Teaching methods

Training facilitation in French. Official digital course material in English. Good understanding of written English.

Course schedule

1 What is cloud migration?

- The three-phase migration process.
- Planning a successful cloud migration.
- The drivers and results of cloud migration.

2 Assessment and preparation for migration

- The evaluation phase.
- Cloud readiness assessment tools.
- Examine your IT landscape and build your sales pitch.

3 Preparing for migration and understanding the work involved

- Mobilization phase.
- Migration workflows.

4 Landing Zones and their advantages

- What is a Landing Zone?
- Customize a multi-account structure using AWS Organizations.
- AWS Control Tower.
- Customizations for AWS Control Tower (CfCt).
- Plan connectivity.

5 Building a Landing Zone

- Planning a Landing Zone.
- Design a multi-account structure.
- Governance policies.
- Plan connectivity.
- Demonstration: AWS Control Tower.

Hands-on work
Connect an On-Prem network and AD services to AWS.

6 Discover and understand migration strategies

- Cloud migration strategies.
- Cloud readiness assessment.

Exercise
Choice of migration strategy (based on scenarios).

7 Understanding and choosing discovery tools

- Migration Evaluator.
- AWS Migration Hub and AWS Application Discovery Service.
- AWS Systems Manager and Amazon CloudWatch.

Hands-on work
Gather the data required for migration.

8 Migration planning and design

- Plan the entire migration.
- Setting up the migration factory.
- Design the migration for each application.

Hands-on work

Develop a migration plan. Design the migration.

9 Migrating to AWS

- Server migration process.
- Server migration tools.
- VMware Cloud on AWS.
- AWS Migration Hub.
- AWS Application Migration Service (AWS MGN).
- Evaluation of server migration tools.

Hands-on work

Migrate an application to AWS.

10 Understanding data migration and database services

- Data migration.
- Online data migration services.
- Offline data migration services.
- Database migration.

Hands-on work

Migrate an existing database to Amazon Aurora.

11 Understanding additional support options for migration

- AWS Managed Services.
- AWS Service Catalog.
- AWS Service Catalog integrations.
- Microsoft workloads on AWS.
- SAP on AWS.

12 Integrate, validate and switch applications

- Migration and modernization phase.
- Toggle strategy.

13 Modernizing and optimizing an application migration

- Cost optimization.
- Performance optimization.
- AWS tools used for optimization.
- Company modernization.
- Use of containers.
- Use of serverless architectures.

Hands-on work

Optimizing an application with Amazon S3 and Amazon ECS.

(14) Operational tools, integration, testing and automation

- AWS Config.
- Infrastructure and operations.
- Adoption of a DevOps approach.
- Change and configuration automation.
- Automated management.

(15) Migration best practices

- Course summary.
- Best practices.
- Continue learning.

Hands-on work
Automated application deployment.