

Migrating to AWS

AWS Classroom Training

Course description

Migrating to AWS focuses on planning and migrating existing workloads to the AWS Cloud. The course covers various cloud migration strategies with a detailed discussion on each phase of the migration process, including portfolio discovery, application migration planning and design, migration execution, and post-migration validation and application optimization. This course is designed for Solutions Architects and Engineers who perform cloud migrations, have an understanding of core AWS services and design patterns covered in Architecting on AWS. This course is also available to IT project managers involved in the planning of those migrations who have completed AWS Technical Essentials.

Level	Delivery method	Duration
Intermediate	Instructor-led training, hands-on labs, and group exercises	2 days

Course objectives

This course is designed to teach you how to:

- Explain the various cloud migration strategies
- Assess cloud migration readiness
- Discover your portfolio and plan for migration
- Plan and design your application migration strategy
- Perform and validate application migration to the cloud
- Optimize your applications and operations after migrating to the cloud

Intended audience

This course is intended for:

- Solutions Architects and Engineers who perform cloud migrations
- IT Project Managers who are involved in projects related to migrating existing workloads to the AWS Cloud

Prerequisites

We recommend that attendees of this course have:

- Taken AWS Technical Essentials or Architecting on AWS classroom training
- Achieved AWS Certified Solutions Architect – Associate certification
- Familiarity with enterprise IT infrastructure (hardware and software)

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Course outline

Day One

Module 1: Migrating to AWS – Overview

- Migration process "Mental Model"
- Cloud Migration Strategies
- Comparing Cloud Migration Strategies
- Cloud Center of Excellence (CoE)
- Cloud Migration Readiness Assessment
- AWS Cloud Migration Process
- Group activity: Creating a high-level migration plan

Module 2: Discovery and analysis

- Migration Process Roadmap
- AWS Migration Methodology
- AWS Application Discovery Service
- Portfolio Analysis
- Hands-on lab 1: Performing discovery

Module 3: Migration planning and design (part I)

- AWS Migration Hub
- Pricing and Availability
- Process
- Group activity: Creating a detailed migration plan

Day Two

Module 3: Migration planning and design (continued)

- Application migration ordering
- Application prioritization criteria
- Defining success criteria
- Migration methodology
- Designing for migration

Module 4: Migration, integration, and validation

- Migration considerations
- Data migration
- AWS Snow Services
- AWS Data Migration Service (DMS)
- Server migration
- Demonstration: Server migration service
- Hands-on lab 2 : Migrating databases to AWS EC2
- Hands-on lab 3 : Migrating databases to Amazon Aurora

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Module 5: Operations and optimization

- On premises vs. cloud
- IT operations
- Optimizing in the AWS Cloud
- Case study: Optimizing an application