

Course description

This course is for individuals who seek an understanding of how to plan and migrate existing workloads to the AWS Cloud. You will learn about various cloud migration strategies and how to apply each step of the migration process, including portfolio discovery, application migration planning and design, conducting a migration, and post-migration validation and application optimization. Hands-on labs reinforce learning, and each lab is designed to provide you with the understanding and foundation necessary to complete migration tasks in your organization.

• Course level: Intermediate
• Duration: 3 days

Activities

This course includes presentations, hands-on labs, demonstrations, assessments, and group exercises.

Course objectives

In this course, you will learn to:

- Recognize the common business and technical drivers for migrating to the cloud
- Summarize the three phases of a migration and associated objectives, tasks, and stakeholders for each
- Describe AWS architecture, tools, and migration best practices

- Distinguish between the various cloud migration strategies and when each is most appropriate
- Determine an organization's application migration readiness
- Discover a portfolio and gather data necessary for migration
- Plan and design an application migration strategy
- Perform and validate application migration to the cloud
- Optimize applications and operations after migrating to the cloud

Intended audience

This course is intended for:

- Solutions architects
- Software engineers
- IT project managers
- Operation leads
- Other individuals involved in the planning and running of migration projects

Prerequisites

We recommend that attendees of this course have:

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

Course outline

Day 1
Module 1: What Is a Cloud Migration?

- Drivers and outcomes of a cloud migration
- Planning for a successful cloud migration
- The three-phase migration process

Module 2: Assessing Migration Readiness

- The assess phase
- Cloud readiness assessment tools
- Examine your IT landscape and build your business case
- Group Exercise: The Cloud Adoption Tool (CART)

Module 3: Preparing for a Migration and Understanding Related Workstreams

- Mobilize phase
- Migration-related workstreams

Module 4: Discovering Landing Zones and Their Benefits

- What is a landing zone?
- Custom multi-account structure with AWS Organizations
- AWS Control Tower
- Customizations for AWS Control Tower (CfCt)
- Planning for connectivity

Module 5: Building a Landing Zone

- Planning a landing zone
- Design a multi-account structure
- Governance polices
- Planning for connectivity
- Demonstration: AWS Control Tower
- Hands-On Lab: Connecting Your On-Premises Network and Directory Services to AWS

Module 6: Discovering the Portfolio and Understanding Migration Strategies

- Detailed portfolio discovery workstream
- Evaluating cloud readiness
- Cloud migration strategies
- Group Exercise: Choose a migration strategy (scenario-based)

Day 2

Module 7: Understanding and Choosing Portfolio Discovery Tools

- Migration Evaluator
- AWS Migration Hub and AWS Application Discovery Service
- AWS Systems Manager and Amazon CloudWatch
- Hands-On Lab: Gathering Application Data Necessary for Migration

Module 8: Planning and Designing a Migration

- Plan the migration overall
- Building the migration factory
- Design the migration for each application
- Group Exercise: Build a migration plan
- Group Exercise: Design for migration

Module 9: Performing the Migration to AWS

- Server migration process
- Server migration tools
- VMware Cloud on AWS
- AWS Migration Hub
- AWS Application Migration Service (AWS MGN)
- Evaluating server migration tools
- Hands-On Lab: Migrating an Application to AWS

Module 10: Understanding Database and Data Migration Services

- Data migration
- Online data migration services
- Offline data migration services
- Database migration
- Hands-On Lab: Migrating an Existing Database to Amazon Aurora

Day 3

Module 11: Understanding Additional Migration Support Options

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

Module 12: Integrating, Validating, and Cutting Over Applications

- Migrate and modernize phase
- Cutover strategy

Module 13: Modernizing and Optimizing Applications

- Cost optimization
- Performance optimization
- AWS tools used to optimize
- Modernize the enterprise
- Use containers
- Use serverless architectures
- Hands-On Lab: Optimizing an Application with Amazon S3 and Amazon ECS

Module 14: Understanding Operations Tools, Integration Testing, and Automation

- AWS Config
- Infrastructure and operations as code

- Adopting a DevOps approach
- Automate change and configuration
- Automate management

Module 15: Migration Best Practices

- Course review
- Best practices
- Continue your learning
- Hands-On Lab: Automating Application Deployments

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Your course overview ends here.
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About CloudThat

Established in 2012, CloudThat is an award-winning company and the first in India to offer cloud training and consulting services for individuals and enterprises worldwide. Recently, it won Google Cloud's New Training Partner of the Year Award for 2025, becoming the first company in the world in 2025 to hold awards from all three major cloud giants: AWS, Microsoft, and Google. CloudThat notably won consecutive AWS Training Partner of the Year (APJ) awards in 2023 and 2024 and the Microsoft Training Services Partner of the Year Award in 2024, bringing its total award count to an impressive 12 awards in the last 8 years.

CloudThat specializes in Cloud Migration, Data Platforms, DevOps, IoT, and cutting-edge technologies like Gen AI & AI/ML. As a Microsoft Solutions Partner, AWS Premier Tier Training Partner, Google Cloud Platform Partner, and collaborator with leading organizations like HPE, Oracle, Nvidia and Databricks, CloudThat has trained over 850,000 professionals across 600+ cloud certifications, empowering students and professionals worldwide to advance their skills and careers.

To know more about our cloud certification training, email at sales@cloudthat.com or call us at +91-8880002200 or +1-8555588830 for those from outside India.