Migrating to AWS Training

Duration: **3 Day**

BILGINC IT Academy
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Overview

This course is designed for professionals who want to understand how to plan and move existing workloads to the AWS Cloud.

Throughout the programme, participants explore different cloud migration strategies, learn when each strategy is most appropriate, and work through the complete AWS migration lifecycle. The course covers portfolio discovery, migration readiness, application planning and design, migration execution, validation, cutover, and post-migration optimisation.

Hands-on labs, demonstrations, and group activities provide practical experience and help participants build a foundation they can apply to migration projects within their own organisations.

Course Activities

The course combines a variety of learning methods, including:

- Instructor-led presentations
- Hands-on labs
- Demonstrations
- Assessments
- Group exercises
- Scenario-based activities

Prerequisites

Participants are recommended to have:

- Familiarity with enterprise IT infrastructure, including hardware and software,
- Completed AWS Technical Essentials or Architecting on AWS training,
- AWS Certified Solutions Architect – Associate certification is beneficial but optional.

Who Should Attend

This course is suitable for:

- Solutions Architects
- Software Engineers
- IT Project Managers
- Operations Leads
- Cloud Migration teams
- Other professionals involved in planning or delivering migration initiatives

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What You Will Learn

By the end of this course, participants will be able to:

- Explain the main business and technical drivers for cloud migration,
- Describe the three phases of an AWS migration and the objectives, activities, and stakeholders involved in each,
- Understand AWS architecture, migration tools, and recommended practices,
- Compare different cloud migration strategies and identify appropriate use cases,
- Assess application migration readiness,
- Discover an application portfolio and collect the data required for migration,
- Plan and design an application migration strategy,
- Perform and validate application migrations to AWS,
- Optimise applications and operational processes after migration.

Outline

Day 1

Module 0 – Introduction to Migrating to AWS

- Course objectives and structure
- Overview of the AWS migration approach

Module 1 – Understanding Cloud Migration

- Business and technical drivers for migration
- Desired outcomes of moving to the cloud
- Key elements of a successful migration journey
- The three-phase AWS migration process

Module 2 – Assessing Migration Readiness

- Objectives and activities of the Assess phase
- Tools for evaluating organisational cloud readiness
- Migration Readiness Assessments (MRAs)
- The role of MRAs in migration planning
- Group Exercise: Assess migration readiness using AWS Cloud Adoption Readiness Tool (CART)

Module 3 – Preparing for Migration and Understanding Workstreams

- Overview of the Mobilize phase
- Key preparation activities
- The eight migration-related workstreams
- Understanding how each workstream contributes to migration success

Module 4 – Understanding Landing Zones and Their Benefits

- What is a Landing Zone?
- The role of a Landing Zone in migration

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- Best practices for creating a custom Landing Zone
- Using AWS Control Tower to establish a Landing Zone

Module 5 – Building a Landing Zone

- Overview of the Landing Zone build process
- Designing a multi-account structure
- Defining governance policies
- Planning connectivity
- Demonstration: AWS Control Tower
- Hands-On Lab: Connecting an on-premises network and directory services to AWS

Module 6 – Portfolio Discovery and Migration Strategies

- Activities within the detailed portfolio discovery workstream
- Assessing application migration readiness
- Understanding the seven migration strategies
- Selecting an appropriate strategy for each application
- Group Exercise: Choose the most suitable migration strategy for a scenario

Day 2

Module 7 – Understanding and Selecting Portfolio Discovery Tools

- Overview of available discovery tools
- Comparing tools for different migration scenarios
- Selecting the appropriate discovery solution
- Hands-On Lab: Gathering application data required for migration

Module 8 – Planning and Designing a Migration

- The migration planning and design process
- Establishing a Migration Factory
- Selecting an application migration strategy
- Reviewing and finalising the chosen strategy

Module 9 – Performing the Migration to AWS

- Understanding the server migration process
- Migration automation tools
- Governance tools
- Evaluating server migration tools for environmental compatibility
- Hands-On Lab: Migrating an application to AWS

Module 10 – Database and Data Migration Services

- Understanding the importance of database and data migration
- AWS data migration options
- Comparing available data migration tools
- Hands-On Lab: Migrating an existing database to Amazon Aurora

Day 3

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Module 11 – Additional Migration Support Options

- Additional AWS migration support options
- AWS Managed Services
- AWS Marketplace
- SAP on AWS
- AWS services for Windows workloads

Module 12 – Integrating, Validating, and Cutting Over Applications

- Application integration during migration
- Post-migration validation
- Planning the cutover process
- Benefits of effective integration, validation, and cutover
- Pre- and post-cutover checks

Module 13 – Modernising and Optimising After Migration

- Identifying post-migration modernisation opportunities
- Application optimisation
- Cost optimisation
- Security optimisation
- AWS tools that support modernisation and optimisation
- Hands-On Lab: Optimising an application with Amazon S3 and Amazon ECS

Module 14 – Operations Tools, Integration Testing, and Automation

- Understanding operations in the AWS Cloud
- Four core operational functions and their domains
- Integration Testing
- Operations Automation
- AWS tools that support cloud operations
- Building sustainable post-migration operations

Module 15 – Migration Best Practices

- Review of the key concepts covered in the course
- Reinforcing AWS migration best practices
- Key considerations for successful migration projects
- Hands-On Lab: Automating Application Deployments