Course Content

Course Description:

In this course, 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 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 migration and associated objectives, tasks, and stakeholders
- Describe AWS architecture, tools, and migration best practices
- Distinguish the various cloud migration strategies and when each is most appropriate
- Determine an organization's application and server migration readiness
- Discover a portfolio and gather data necessary for migration
- Plan and design migration strategy for servers, applications and databases
- Perform and validate application migration to the cloud
- Optimize applications and operations after migrating to the cloud

Prerequisites:

AWS Technical Essentials OR Architecting on AWS
AWS Certified Solutions Architect – Associate certification (optional)

Target Audience:

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

Topics:
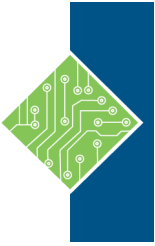
Lesson 1: Introduction to Migrating to AWS
- Course introduction

Lesson 2: What Is a Cloud Migration?
- Summarize the drivers and desired outcomes of a cloud migration
- Identify the elements of a successful migration journey
- Describe the three-phase AWS migration process

Lesson 3: Assessing Migration Readiness
- Summarize the activities and goals of the assess phase
- Evaluate tools for assessing your organization's cloud readiness
- Describe Migration Readiness Assessments (MRAs) and their importance

Group Exercise: Assess cloud migration readiness with AWS Cloud Adoption Readiness Tool (CART)

Lesson 4: Preparing for a Migration and Understanding Related Workstreams
- Summarize the mobilize phase of the process
- Discuss the eight unique migration-related workstreams

Lesson 5: Discovering Landing Zones and Their Benefits
- Explain the function of a landing zone
- Discuss best practices for creating a custom landing zone
- Describe how you would use AWS Control Tower to create a landing zone

Lesson 6: Building a Landing Zone
- Summarize the process of building a landing zone
- Determine the best multi-account structure, governance policies, and connectivity plan for a landing zone

Demonstration: AWS Control Tower
Lab: Connecting Your On-Premises Network and Directory Services to AWS

Lesson 7: Discovering the Portfolio and Understanding Migration Strategies
- Explain the activities of the detailed portfolio discovery workstream
- •Describe how to assess an application's migration readiness
- Summarize the seven migration strategies

Group Exercise: Choose the best strategy (scenario-based)

Lesson 8: Understanding and Choosing Portfolio Discovery Tools
- Summarize the various discovery tools available
- Distinguish which tools are best to use based on scenario

Lab: Gathering Application Data Necessary for Migration

Lesson 9: Planning and Designing a Migration
- Describe the planning and design process
- Summarize how to set up a migration factory
- Choose and finalize an application migration strategy

Lesson 10: Performing the Migration to AWS
- Explain the server migration process
- Discuss the various migration automation and governance tools available
- Evaluate server migration tools for compatibility with your environment

Lab: Migrating an Application to AWS

Lesson 11: Understanding Database and Data Migration Services
- Summarize the significance of database and data migration
- Discuss the various data migration tools available

Lab: Migrating an Existing Database to Amazon Aurora

Lesson 12: Understanding Additional Migration Support Options
- Discuss additional migration support options
- Summarize AWS Managed Services and AWS Marketplace
- Describe SAP on AWS and services offered for Windows

Lesson 13: Integrating, Validating, and Cutting Over Applications
- Discuss the process and benefits of integrating, validating, and cutting over applications

Lesson 14: Modernizing and Optimizing an Application Migration
- Identify post-migration opportunities for modernization and optimization
- Understand cost and security optimization processes
- Explore tools available to support these processes

Lab: Optimizing an Application with Amazon S3 and Amazon ECS

Lesson 15: Understanding Operations Tools, Integration Testing, and Automation
- Summarize operations in the cloud
- Discuss four functions of operations and their domains
- Review operations automation and relevant support tools

Lesson 16: Migration Best Practices
- Course review and key takeaways
- Summarize and reinforce AWS best practices for migrating

Lab: Automating Application Deployments

Register for this class by visiting us at:
www.tcworkshop.com or calling us at 800-639-3535