

Secure Migration

Course ID: 00330

Course Overview

In this workshop, you will learn how to Secure your migration journey with Azure Essentials best practices, design a migration strategy to help your customers migrate their on-premises workloads to Azure using the guidance provided by Microsoft Cloud Adoption Framework for Azure. This will include the migration of virtual and physical servers as well as databases. You will learn about the different assessment and migration tools available to for your use during the migration process. You will also learn how to optimize and govern the cloud workloads using the tools available within Azure and implement security with Microsoft Defender for Cloud and Microsoft Sentinel. This session will also include hands on lab practice to gain a better understanding of the migration process.

Course Details

Duration:	12 hours	Type:	Project Ready
Level:	Intermediate	Labs:	Yes
Role:	Technical	Solution Area:	Cloud and AI Platform

Course Syllabus

- 1. Module 1: Getting ready to Migrate youestate to Azure** 60 mins | Lecture
 - Introduction and Azure Essentials framework
 - Microsoft Cloud Adoption Framework
 - Overview of the framework and its components for migration
 - Setting up a secure foundation for cloud migration with Azure Landing zones
 - Agentic Platform Landing Zone with Azure Migrate
 - Cost Efficiency Consideration and strategies
- 2. Module 2: Be AI-ready with Azure** 90 mins | Lecture
 - Azure for every workload
 - Azure Security and Threat Protection
 - Performance and ROI for your workloads
 - Migration on your terms - Flexible migration approach
 - Introducing: Azure Accelerate
 - Azure Adaptive Cloud approach
 - Customer Stories
- 3. Module 03 - Migrating Virtual machines** 30 mins | Lecture
 - Migration tools
 - Migration using Azure Migrate
 - Azure Migrate for Azure Local

4. Interactive Simulated Lab

60 mins | Lab

- Lab 1 - Verifying deployed on-premise environment
- Lab 2 - Discover and assess the on-premise environment
- Lab 3 - Migrating the VMs from on-premises environment to Azure

5. Module 4: Database migration

60 mins | Lecture

- Migrate Databases with Azure Database Migration Service
- Migrating to Azure Database for PostgreSQL
- Migrating to Fabric databases

6. Module 5: Migrate and modernize apps on Azure

70 mins | Lecture

- Modernizing app and Data Estate for AI
- Microsoft Developer tools, Application services and Data Platform
- Migrate apps to modernize
- Azure Migrate: App Containerization
- App modernization customer Use cases
- Modernize .Net and Java apps
- Securing your AI Apps
- Sample Architectures for common use cases

7. Module 6: Post Migration governance, optimization and compliance

50 mins | Lecture

- Governance and Management methodology
- Introduction to Well-Architected Framework
- Optimizing reliability

8. Interactive Simulated Lab

60 mins | Lab

- Lab 4 - Migrating the application database
- Lab 5 - PostgreSQL Database Online Migration
- Lab 6 - Implementing Governance and Compliance using Azure Policy
- Lab 7 - Implementing RBAC

9. Module 07: Securing the migrated workloads

180 mins | Lecture

- Introduction to Infrastructure Security
- Security pillar in the Well-Architected Framework
- Cloud security posture management (CSPM)
- Protecting workloads during and post migration with Microsoft Defender for Cloud
- Enabling advanced threat detection and response with
- Microsoft Sentinel
- Securing Identities with Microsoft Entra
- Having a secure migration conversation
- Protect at the speed and scale of AI with Security Copilot
- Microsoft Security Exposure Management Overview

10. Interactive Simulated Lab

60 mins | Lab

- Lab 8 - Cloud Workload Protection with Microsoft Defender for Cloud
- Lab 9: Managing Defender for Cloud security policies
- Lab 10: Investigating incidents with Microsoft Sentinel
- Lab 11: advanced Threat Protection and response with Microsoft Sentinel
- Lab 12 : Security Copilot (Optional)