

# AZ-300T02-A: Implementing Workloads and Security

## OBJECTIVE

This course teaches IT professionals how to discover, assess, plan, and implement a migration of on-premises resources and infrastructure to Azure. Students will learn how to use Azure Migrate to perform the discovery and assessment phase that is critical to a successful migration. Students will also learn how to use Azure Site Recovery for performing the actual migration of workloads to Azure. The course focuses primarily on using ASR on a Hyper-V infrastructure to prepare and complete the migration process.

Also, students will learn how to deploy serverless computing features like Azure Functions, Event Grid, and Service Bus. Students will learn how Azure Multi-Factor Authentication helps safeguard access to data and applications, helping to meet customer demand for a simple sign-in process. Also, students will learn how to use Azure Active Directory Privileged Identity Management to manage, control, and monitor access to Azure resources within your organization.

See how to manage and maintain the infrastructure for the core web apps and services that developers build and deploy. Students will learn how Azure App Service is used as a Platform as a Service (PaaS) offering for deploying cloud apps for web and mobile environments.

Lastly, students will get a glimpse of how to implement advanced networking features like Application Gateway; how to configure load balancing; integrating on-premises networks with Azure virtual networks; and how to use Network Watcher to monitor and troubleshoot issues.

## COURSE TOPICS

### Module 1: Evaluating and Performing Server Migration to Azure

This module covers migrating workloads to a new environment, whether it be another datacenter, or to a public cloud, and setting clear goals for the migration. Goals include both technology-focused and business-focused goals for migrations, and the benefits to an organization's business. Activities include components of the Azure migration process: creating a project, creating a collector, assessing readiness, and estimating costs. Additionally, you will receive an overview of Azure Site Recovery (ASR) that includes end-to-end scenarios.

After completing this module, students will be able to:

- Evaluate and perform server migration to Azure

### Module 2: Implementing and Managing Application Services

This module includes the following topics: Deploying Web Apps; Managing Web Apps; App Service Security; Serverless Computing Concepts; Managing Event Grid; Managing Service Bus; and Managing Logic App.

After completing this module, students will be able to:

- Implement and manage Application Services

### Module 3: Implementing Advanced Virtual Networking

This module includes the following topics: Azure Load Balancer; Azure Application Gateway; Site-to-Site VPN Connections; as well as an overview of ExpressRoute, which allows companies to extend on-premises networks into the Microsoft cloud over a dedicated private connection facilitated by a connectivity provider.

After completing this module, students will be able to:

- Implement advanced Virtual Networking

### Module 4: Securing Identities

This module includes the following topics with an emphasis on identity and roles: Azure AD Identity Protection; Azure Domains and Tenants; Azure Users and Groups; Azure Roles; as well as an overview of Azure AD integration options that focuses on Azure AD Connect to integrate on-premises directories with Azure Active Directory.

After completing this module, students will be able to:

- Secure identities using Azure AD.

## TRAINING APPROACH

This course includes lectures, course notes, exercises and hands-on practice.

## COURSE DURATION

Bundle Course in 3 days

Time: 9:00am to 6:00pm

Lunch Time: 1:00pm to 2:00pm

## CERTIFICATION COMPLETION

A certificate of completion is provided for all trainees attending the course.