

Module Title : AZ-300T02-A: Implementing Workloads and Security

Duration : 1 day

Overview

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, you will learn how to deploy serverless computing features like Azure Functions, Event Grid, and Service Bus. You 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, 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, you will get a glimpse of how to implement advanced networking features like Application Gateway and how to configure load balancing. Learn to integrate on-premises networks with Azure virtual networks and to use Network Watcher to monitor and troubleshoot issues.

Audience profile

Successful Azure Solutions Architects start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, billing, and networking.

At course completion

After completing this course, students will be able to:

- Evaluating and Performing Server Migration to Azure
- Implementing and Managing Application Services
- Implementing Advanced Virtual Networking.
- Securing Identities using Azure AD.

Course Outline

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:

- Evaluating and Performing 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
- Managing Logic App

After completing this module, students will be able to:

- Implementing and Managing 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:

- Implementing 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:

- Securing Identities using Azure AD.