

Course Outline

Module 1: Managing Azure Subscriptions and Resources

In this module you will explore Azure monitoring capabilities using Azure alerts, Azure activity logs, and Log Analytics. You will learn to query, analyze, and interpret the data viewed in Log Analytics.

After completing this module, students will be able to:

- Manage Azure Subscriptions and Resources

Module 2: Implementing and Managing Storage

In this module you will learn about Azure storage accounts, data replication, how to use Azure Storage Explorer, and monitor storage.

After completing this module, students will be able to start:

- Implementing and Managing Storage in Azure.

Module 3: Deploying and Managing Virtual Machines (VMs)

In this module you will learn how to do the following:

- Create Virtual Machines (VM)s within the Azure Portal
- Create Virtual Machines (VM)s using Azure PowerShell
- Create Virtual Machines (VM)s using ARM templates
- Deploy Linux Virtual Machines (VM)s
- Monitor Virtual Machines (VM)s

Additionally, you will learn how to protect data using backups at regular intervals, whether by snapshot, Azure Backup, or Azure Site Recovery.

Module 4: Configuring and Managing Virtual Networks

In this module you will create and implement virtual networks using the Azure Portal as well as Azure PowerShell and CLI. You will receive an overview on how to assign IP addresses to Azure resources to communicate with other Azure resources, your on-premises network, and the Internet.

In this module you will learn how to do the following:

- Network routing using routing tables and algorithms
- Inter-site connectivity using VNet-to-VNet connections and VPNs
- Virtual network peering for regional and global considerations
- Gateway transit

After completing this module, students will be able to start:

- Configuring and Managing Virtual Networks in Azure

Module 5: Managing Identities

This module covers Azure Active Directory (Azure AD) for IT Admins and Developers with a focus on the Azure AD multi-tenant cloud-based directory and identity management service. Lessons: - Role-Based Access Control (RBAC) - Built-in roles - Self-Service Password Reset (SSPR) - Authentication methods for password reset

After completing this module, students will be able to start:

- Managing Identities using Azure Active Directory