Deploying and Configuring Infrastructure
Exam AZ-300 (1 of 5) | 1 Day Workshop

This is one of the five MOC workshops for the Exam AZ-300: Azure Architect Technologies

Audience Profile

Successful Cloud Solutions Architects begin this role with practical experience with operating systems, virtualization, cloud infrastructure, storage structures, billing, and networking.

Prerequisites

Prior to taking this course, it is recommended that you have passed the Azure Administrator (AZ-103) exam

Course Duration: 1 Day

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:
- Implement and Manage Storage.

Module 3: Deploying and Managing Virtual Machines (VMs)
Lessons
- 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.

After completing this module, students will be able to:
- Deploy and Manage VMs.

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 of how to assign IP addresses to Azure resources to communicate with other Azure resources, your on-premises network, and the Internet.

Lessons
- 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:
- Deploy and Manage VMs

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 a password reset

After completing this module, students will be able to:
- Manage Identities using Azure Active Directory