



AZ-303T00: Microsoft® Azure® Architect Technologies

Duration: 5 Days

Method: Instructor-Led Training (ILT) | Live Online Training

Certification: Microsoft Certified: Azure Solutions Architect Expert — **Exam 1 of 2:** AZ-303 Microsoft Azure Architect Technologies

Course Description

This course teaches participants how to translate business requirements into secure, scalable, and reliable solutions. Lessons include virtualization, automation, networking, storage, identity, security, data platform, and application infrastructure. This course outlines how decisions in each of these areas affect an overall solution.

Target Audience

This course is intended for:

- IT Professionals with expertise in designing and implementing solutions running on Azure.

Prerequisites

To attend this course, candidates must have completed the AZ-900: Azure Fundamentals course or have the equivalent knowledge and experience such as:

- Understanding of on-premises virtualization technologies, including VMs and virtual networking.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including domains, forests, and domain controllers.

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Implement and monitor an Azure infrastructure.
- Implement management and security solutions.
- Implement solutions for apps.
- Implement and manage data platforms.



Course Topics

Module 1: Implement Azure Active Directory

- Overview of Azure Active Directory
- Users and Groups
- Domains and Custom Domains
- Azure AD Identity Protection
- Implement Conditional Access
- Configure Fraud Alerts for MFA
- Implement Bypass Options
- Configure Guest Users in Azure AD
- Configure Trusted IPs
- Manage Multiple Directories

Module 2: Implement and Manage Hybrid Identities

- Install and Configure Azure AD Connect
- Configure Password Sync and Password Writeback
- Configure Azure AD Connect Health

Module 3: Implement Virtual Networking

- Virtual Network Peering
- Implement VNet Peering

Module 4: Implement VMs for Windows and Linux

- Select Virtual Machine Size
- Configure High Availability
- Implement Azure Dedicated Hosts
- Deploy and Configure Scale Sets
- Configure Azure Disk Encryption

Module 5: Implement Load Balancing and Network Security

- Implement Azure Load Balancer
- Implement an Application Gateway
- Understand Web Application Firewall
- Implement Azure Firewall
- Implement Azure Front Door
- Implementing Azure Traffic Manager
- Implement Network Security Groups and Application Security Groups
- Implement Azure Bastion

Module 6: Implement Storage Accounts

- Storage Accounts
- Blob Storage
- Storage Security
- Managing Storage
- Accessing Blobs and Queues using AAD

Module 7: Implement NoSQL Databases

- Configure Storage Account Tables
- Select Appropriate CosmosDB APIs

Module 8: Implement Azure SQL Databases

- Configure Azure SQL Database Settings
- Implement Azure SQL Database Managed Instances
- High-Availability and Azure SQL Database



Course Topics *Continued*

Module 9: Automate Deployment and Configuration of Resources

- Azure Resource Manager Templates
- Save a Template for a VM
- Evaluate the Location of New Resources
- Configure a Virtual Hard Disk Template
- Deploy from a template
- Create and Execute an Automation Runbook

Module 10: Implement and Manage Azure Governance

- Create Management Groups, Subscriptions, and Resource Groups
- Overview of Role-Based Access Control (RBAC)
- Role-Based Access Control (RBAC) Roles
- Azure AD Access Reviews
- Implement and Configure an Azure Policy
- Azure Blueprints

Module 11: Manage Security for Applications

- Azure Key Vault
- Azure Managed Identity
- Module 12: Manage Workloads in Azure
- Migrate Workloads using Azure Migrate
- VMware - Agentless Migration
- VMware - Agent-Based Migration
- Implement Azure Backup
- Azure to Azure Site Recovery
- Implement Azure Update Management

Module 13: Implement Container-Based Applications

- Azure Container Instances
- Configure Azure Kubernetes Service

Module 14: Implement an Application Infrastructure

- Create and Configure Azure App Service
- Create an App Service Web App for Containers
- Create and Configure an App Service Plan
- Configure Networking for an App Service
- Create and Manage Deployment Slots
- Implement Logic Apps
- Implement Azure Functions

Module 15: Implement Cloud Infrastructure Monitoring

- Azure Infrastructure Security Monitoring
- Azure Monitor
- Azure Workbooks
- Azure Alerts
- Log Analytics
- Network Watcher
- Azure Service Health
- Monitor Azure Costs
- Azure Application Insights
- Unified Monitoring in Azure

LABS INCLUDED

