

Microsoft Azure Architect Technologies (AZ-303)

Course Overview

Duration: 5 Days

This course teaches Solutions Architects 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 these area affects an overall solution.

Who should attend

This course is for IT Professionals with expertise in designing and implementing solutions running on Microsoft Azure. They should have broad knowledge of IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platform, budgeting, and governance. Azure Solution Architects use the Azure Portal and as they become more adept they use the Command Line Interface. Candidates must have expert-level skills in Azure administration and have experience with Azure development processes and DevOps processes.

Certifications

- This course is part of the following Certifications:
- Microsoft Certified: Azure Solutions Architect Expert

Prerequisites

Successful Azure Architect students have prior experience with operating systems, virtualization, cloud infrastructure, storage structures, and networking:

- 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

If you are new to Azure and cloud computing, consider one of the following resources:

- Free online: Azure Fundamentals
- Instructor-led course: Microsoft Azure Fundamentals (1 Day) (AZ-900T01)
- Prerequisites for Azure administrators

Course Objectives

- Secure identities with Azure Active Directory and users and groups.
- Implement identity solutions spanning on-premises and cloud-based capabilities
- Apply monitoring solutions for collecting, combining, and analyzing data from different sources.
- Manage subscriptions, accounts, Azure policies, and Role-Based Access Control.

- Administer Azure using the Resource Manager, Azure portal, Cloud Shell, and CLI.
- Configure intersite connectivity solutions like VNet Peering, and virtual network gateways.
- Administer Azure App Service, Azure Container Instances, and Kubernetes.

Course Content

- Implement Azure Active Directory
- Implement and Manage Hybrid Identities
- Implement Virtual Networking
- Implement VMs for Windows and Linux
- Implement Load Balancing and Network Security
- Implement Storage Accounts
- Implement NoSQL Databases
- Implement Azure SQL Databases
- Automate Deployment and Configuration of Resources
- Implement and Manage Azure Governance
- Manage Security for Applications
- Manage Workloads in Azure
- Implement Container-Based Applications
- Implement an Application Infrastructure
- Implement Cloud Infrastructure Monitoring