

Microsoft Azure Architect Technologies (AZ-303)

Modality: On Demand

Duration: 25 Hours

About this Course:

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 of these areas affects an overall solution.

Course Objectives:

After completing this course, students will be able to:

- 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.

Audience:

- 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.

Prerequisites:

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

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- 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, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.

Course Outline:

- Module 1: Implement Cloud Infrastructure Monitoring
- Module 2: Implement Storage Accounts
- Module 3: Implement Azure Active Directory
- Module 4: Implementing and Managing Hybrid Identities
- Module 5: Implement Virtual Networking
- Module 6: Implementing VMs for Windows and Linux
- Module 7: Automate Deployment and Configuration of Resources
- Module 8: Manage Workloads in Azure
- Module 9: Implement Load Balancing and Network Security
- Module 10: Implement and Manage Azure Governance Solutions
- Module 11: Manage Security for Applications
- Module 12: Implement an Application Infrastructure
- Module 13: Implementing Container Based Apps
- Module 14: Implement NoSQL Databases
- Module 15: Implementing Azure SQL Databases