

AZ-305T00: Design Microsoft Azure Infrastructure Solutions

Course Description

This course teaches Azure Solution Architects how to design infrastructure solutions. Course topics cover governance, compute, application architecture, storage, data integration, authentication, networks, business continuity, and migrations. The course combines lecture with case studies to demonstrate basic architect design principles.

Course Duration

4 days

Prerequisites

Before attending this course, students must have previous experience deploying or administering Azure resources and strong conceptual knowledge of:

- Azure Active Directory
- Azure compute technologies such as VMs, containers and serverless solutions
- Azure virtual networking to include load balancers
- Azure Storage technologies (unstructured and databases)
- General application design concepts such as messaging and high availability

Course Outline

- Describe the core architectural components of Azure
- Describe Azure compute and networking services
- Describe Azure storage services
- Describe Azure identity, access, and security
- Introduction to the Microsoft Cloud Adoption Framework
- Introduction to the Microsoft Azure Well-Architected Framework
- Design governance
- Design authentication and authorization solutions
- Design a solution to log and monitor Azure resources
- Describe high availability and disaster recovery strategies
- Design a solution for backup and disaster recovery
- Design a data storage solution for non-relational data
- Design a data storage solution for relational data
- Design data integration
- Design an Azure compute solution
- Design an application architecture
- Design network solutions
- Design migrations



- Introduction to the Microsoft Azure Well-Architected Framework
- Microsoft Azure Well-Architected Framework – Reliability
- Microsoft Azure Well-Architected Framework – Security
- Microsoft Azure Well-Architected Framework - Cost Optimization
- Microsoft Azure Well-Architected Framework - Operational Excellence
- Microsoft Azure Well-Architected Framework - Performance Efficiency

Who Should Attend

Successful students have experience and knowledge in IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance. Students also have experience designing and architecting solutions.