

AZ-305T00: Designing 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

Prerequisite courses (or equivalent knowledge and hands-on experience): This free online training will give you the experience you need to be successful in this course.

- AZ-104: Manage identities and governance in Azure - Learn | Microsoft Docs
- AZ-104: Implement and manage storage in Azure - Learn | Microsoft Docs
- AZ-104: Configure and manage virtual networks for Azure administrators - Learn | Microsoft Docs
- AZ-104: Deploy and manage Azure compute resources - Learn | Microsoft Docs
- AZ-104: Monitor and back up Azure resources - Learn | Microsoft Docs

Course Outline

- Design governance
- Design an Azure compute solution
- Design a data storage solution for non-relational data
- Design a data storage solution for relational data
- Design data integration
- Design an application architecture
- Design authentication and authorization solutions
- Design a solution to log and monitor Azure resources
- Design network solutions

- Design a solution for backup and disaster recovery
- Design migrations
- Build great solutions with the Microsoft Azure Well-Architected Framework
- Accelerate cloud adoption with the Microsoft Cloud Adoption Framework for Azure

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