AZ-305: Microsoft Azure Architect Design (4 Days)

This Azure Training 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.

Audience

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.

Objectives

- Design a governance solution.
- Design a compute solution.
- Design an application architecture.
- Design storage, non-relational and relational.
- Design data integration solutions.
- Design authentication, authorization, and identity solutions.
- Design network solutions.
- Design high availability solutions.
- Design backup and disaster recovery solutions.
- Design monitoring solutions.
- Design migration solutions.

Prerequisites

Before attending this course, students must have previous experience deploying or administering Azure resources and 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

Module 1: Design compute and application solutions
- Design for governance
- Design for compute solutions
- Design for application architectures
- Lab: Case studies

Module 2: Design storage solutions
- Design a non-relational storage solution.
- Design a relational storage solution.
- Design a data integration solution.
- Lab: Case studies

Module 3: Design networking and access solutions
- Design authentication and authorization solutions
- Design networking solutions
- Lab: Case studies

Module 4: Design business continuity solutions
- Design for backup and disaster recovery
- Design monitoring solutions
- Design for migrations
- Lab: Case studies