Design Microsoft Azure Infrastructure Solutions

Length: 4 days
Format: Classroom
Time: Day

About This Course

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.

Required Exams

Audience Profile

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.

Course Objectives

* Design identity, governance, and monitor solutions
* Design business continuity solutions
* Design data storage solutions
* Design infrastructure solutions
* Build great solutions with the Microsoft Azure Well-Architected Framework
* Accelerate cloud adoption with the Microsoft Cloud Adoption Framework for Azure

Outline

Module 1: Microsoft Azure Architect Design Prerequisites * Describe the core architectural components of Azure

* Describe Azure compute and networking services
* Describe Azure storage services
* Describe Azure identity, access, and security
* Microsoft Cloud Adoption Framework for Azure
* Introduction to the Microsoft Azure Well-Architected Framework

Module 2: AZ-305: Design identity, governance, and monitor solutions * Design governance
* Design authentication and authorization solutions
* Design a solution to log and monitor Azure resources

Module 3: AZ-305: Design business continuity solutions * Describe high availability and disaster recovery strategies
* Design a solution for backup and disaster recovery

Module 4: Design data storage solutions * Design a data storage solution for non-relational data
* Design a data storage solution for relational data
* Design data integration

Module 5: Design infrastructure solutions * Design an Azure compute solution
* Design an application architecture
* Design network solutions
* Design migrations

Module 6: Build great solutions with the Microsoft Azure Well-Architected Framework * Introduction to the Microsoft Azure Well-Architected Framework
* Microsoft Azure Well-Architected Framework - Cost Optimization
* Microsoft Azure Well-Architected Framework - Operational excellence
* Microsoft Azure Well-Architected Framework - Performance efficiency
* Microsoft Azure Well-Architected Framework - Reliability
* Microsoft Azure Well-Architected Framework - Security

Module 7: Accelerate cloud adoption with the Microsoft Cloud Adoption Framework for Azure * Getting started with the Microsoft Cloud Adoption Framework for Azure
* Prepare for successful cloud adoption with a well-defined strategy
* Prepare for cloud adoption with a data-driven plan
* Choose the best Azure landing zone to support your requirements for cloud operations
* Use the Cloud Adoption Framework Migrate methodology to migrate your workload to the cloud
* Address tangible risks with the Govern methodology of the Cloud Adoption Framework for Azure
* Ensure stable operations and optimization across all supported workloads deployed to the cloud
* Innovate applications by using Azure cloud technologies
* Prepare for cloud security by using the Microsoft Cloud Adoption Framework for Azure