AZ-305T00-A

Designing Microsoft Azure Infrastructure Solutions

32 horas | Azure | Microsoft

INTRODUÇÃO

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.

OBJETIVO DO CURSO

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PÚBLICO-ALVO

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.

PRÉ-REQUISITOS

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

CONTEÚDO PROGRAMÁTICO

COURSE OUTLINE

Module 1: AZ-305 Microsoft Azure Architect Design Prerequisites

- Describe core Azure architectural components
- Build a cloud governance strategy on Azure
- Microsoft Cloud Adoption Framework for Azure
- Introduction to the Microsoft Azure Well-Architected Framework
- Secure access to your applications by using Azure identity services
- Explore Azure compute services
- Discover Azure message queues
- Explore Azure networking services
- Explore Azure Storage services
- Explore Azure database and analytics services

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

- Design for high availability
- Design a solution for backup and disaster recovery

Module 4: AZ-305: 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: AZ-305: 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
- Migrate to Azure through repeatable processes and common tolos
- 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