

AZ-304: Microsoft Azure Architect Design

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Live Training
- **Data:** 13 Dez. 2021 a 16 Dez. 2021
- **Preço:** 1430€
- **Horário:** Laboral - das 9h00 às 17h00
- **Duração:** 28 horas

This course teaches Solutions Architects how to translate business requirements into secure, scalable, and reliable solutions. Lessons include design considerations related to logging, cost analysis, authentication and authorization, governance, security, storage, high availability, and migration. This role requires decisions in multiple areas that affect an overall design solution.

At the end of this course, students will be able to:

- Recommend solutions to minimize costs
- Recommend a solution for Conditional Access, including multi-factor authentication
- Recommend a solution for a hybrid identity including Azure AD Connect and Azure AD Connect
- Recommend a solution for using Azure Policy
- Recommend a solution that includes KeyVault
- Recommend a solution that includes Azure AD Managed Identities
- Recommend a storage access solution
- Design and Azure Site Recovery solution
- Recommend a solution for autoscaling
- Recommend a solution for containers
- Recommend a solution for network security
- Recommend a solution for migrating applications and VMs
- Recommend a solution for migration of databases

Destinatários

This course is for IT Professionals with expertise in designing and implementing solutions running on Microsoft Azure. They should have broad knowledge of IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platform, budgeting, and governance. Azure Solution Architects use the Azure Portal and as they become more adept they use the Command Line Interface. Candidates must have expert-level skills in Azure administration and have experience with Azure development processes and DevOps processes.

Pré-requisitos

Successful Azure Solution Architects start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.

Programa

Design for Cost Optimization

- Recommend Solutions for Cost Management
- Recommended Viewpoints for Minimizing Costs

Design a Solution for Logging and Monitoring

- Azure Monitoring Services
- Azure Monitor

Design Authentication

- Recommend a Solution for Multi-Factor Authentication
- Recommend a Solution for Single-Sign On (SSO)
- Five Steps for Securing Identity Infrastructure
- Recommend a Solution for a Hybrid Identity
- Recommend a Solution for B2B Integration

Design Authorization

- Infrastructure Protection
- Recommend a Hierarchical Structure for Management Groups, Subscriptions and Resource Groups

Design Governance

- Recommend a Solution for using Azure Policy
- Recommend a Solution for using Azure Blueprint

Design Security for Applications

- Recommend a Solution using KeyVault

- Recommend a Solution using Azure AD Managed Identities

Design a Solution for Databases

- Select an Appropriate Data Platform Based on Requirements
- Overview of Azure Data Storage
- Recommend Database Service Tier Sizing
- Dynamically Scale Azure SQL Database and Azure SQL Managed Instances
- Recommend a Solution for Encrypting Data at Rest, Transmission, and In Use

Design Data Integration

- Recommend a Data Flow
- Recommend a Solution for Data Integration

Select an Appropriate Storage Account

- Understanding Storage Tiers
- Recommend a Storage Access Solution
- Recommend Storage Management Tools

Design a Solution for Backup and Recovery

- Recommend a Recovery Solution for Hybrid and On-Premises Workloads
- Design and Azure Site Recovery Solution
- Recommend a Solution for Recovery in Different Regions
- Recommend a Solution for Azure Backup Management
- Design a Solution for Data Archiving and Retention

Design for High Availability

- Recommend a Solution for Application and Workload Redundancy
- Recommend a Solution for Autoscaling
- Identify Resources that Require High Availability
- Identify Storage Types for High Availability
- Recommend a Solution for Geo-Redundancy of Workloads

Design a Compute Solution

- Recommend a Solution for Compute Provisioning
- Determine Appropriate Compute Technologies
- Recommend a Solution for Containers
- Recommend a Solution for Automating Compute Management

Design a Network Solution

- Recommend a Solution for Network Addressing and Name Resolution
- Recommend a Solution for Network Provisioning
- Recommend a Solution for Network Security

- Recommend a Solution for Internet Connectivity and On-Premises Networks,
- Recommend a Solution for Automating Network Management
- Recommend a Solution for Load Balancing and Traffic Routing

Design an Application Architecture

- Recommend a Microservices Architecture
- Recommend an Orchestration Solution for Deployment of Applications
- Recommend a Solution for API Integration

Design Migrations

- Assess and On-Premises Servers and Applications for Migration
- Recommend a Solution for Migrating Applications and VMs
- Recommend a Solution for Migration of Databases