

AZ-305: AZURE SOLUTIONS ARCHITECT SYLLABUS

Section1: Design a solution for logging and monitoring

- Design a log routing solution
- Recommend an appropriate level of logging
- Recommend monitoring tools for a solution

Section2: Design authentication and authorization solutions

- Recommend a solution for securing resources with role-based access control
- Recommend an identity management solution
- Recommend a solution for securing identities

Section3: Design governance

- Recommend an organizational and hierarchical structure for Azure resources
- Recommend a solution for enforcing and auditing compliance

Section4: Design identities and access for applications

- Recommend solutions to allow applications to access Azure resources
- Recommend a solution that securely stores passwords and secrets
- Recommend a solution for integrating applications into Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra
- Recommend a user consent solution for applications

Section5: Design a data storage solution for relational data

- Recommend database service tier sizing
- Recommend a solution for database
- Recommend a solution for encrypting data at rest, data in transmission, and data in use

Section6: Design data integration

- Recommend a solution for data integration
- Recommend a solution for data analysis

Section7: Recommend a data storage solution

- Recommend a solution for storing relational data
- Recommend a solution for storing semi-structured data
- Recommend a solution for storing non-relational data

Section8: Design a data storage solution for non-relational data

- Recommend access control solutions to data storage
- Recommend a data storage solution to balance features, performance, and cost

Section9: Design a solution for backup and disaster recovery

- Recommend a recovery solution for Azure, hybrid, and on-premises workloads that meets recovery Objectives
- Understand the recovery solutions for containers
- Recommend a backup and recovery solution for compute
- Recommend a backup and recovery solution for databases
- Recommend a backup and recovery solution for unstructured data

Section10: Design a solution for high availability

- Identify the availability requirements of Azure resources
- Recommend a high availability solution for compute
- Recommend a high availability solution for non-relational data storage
- Recommend a high availability solution for relational data storage

Section11: Design a compute solution

- Recommend a virtual machine–based compute solution
- Recommend an appropriately sized compute solution based on workload requirements
- Recommend a container-based compute solution
- Recommend a server less-based compute solution

Section12: Design an application architecture

- Recommend a caching solution for applications
- Recommend a messaging architecture
- Recommend an event-driven architecture
- Recommend an automated deployment solution for your applications
- Recommend an application configuration management solution

- Recommend a solution for API integration

Section13: Design migrations

- Evaluate a migration solution that leverages the Cloud Adoption Framework for Azure
- Assess and interpret on-premise servers, data, and applications for migration
- Recommend a solution for migrating applications and virtual machines
- Recommend a solution for migrating databases
- Recommend a solution for migrating unstructured data

Section14: Design network solutions

- Recommend a network architecture solution based on workload requirements
- Recommend a connectivity solution that connects Azure resources to the internet
- Recommend a connectivity solution that connects Azure resources to on-premise networks
- Optimize network performance for applications
- Recommend a solution to optimize network security
- Recommend a load balancing and routing solution

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