

Exam AZ-302: Microsoft Azure Solutions Architect Certification Transition – Skills Measured

Determine workload requirements (15-20%)

Determine feasibility and refine requirements

- recommend changes during project execution (ongoing)
- create proof of concept (PoC)
- determine whether a pilot is needed
- evaluate products and services to align with solution
- create testing scenarios
- refine user stories

Optimize consumption strategy

- optimize app service, compute, identity, network, and storage costs

Design for identity and security (5-10%)

Design authorization

- choose an authorization approach
- define access permissions and privileges
- design secure delegated access (e.g., OAuth, OpenID, etc.)
- recommend when and how to use API keys

Design a business continuity strategy (15-20%)

Design a site recovery strategy

- design a recovery solution
- design a site recovery replication policy
- design for site recovery capacity and for storage replication
- design site failover and failback (planned/unplanned)
- design the site recovery network
- recommend recovery objectives (e.g., Azure, on-prem, hybrid, Recovery Time Objective (RTO), Recovery Level Objective (RLO), Recovery Point Objective (RPO))
- identify resources that require site recovery
- identify supported and unsupported workloads
- recommend a geographical distribution strategy

Design for high availability

- design for application redundancy, autoscaling, data center and fault domain redundancy, and network redundancy
- identify resources that require high availability
- identify storage types for high availability

Implement workloads and security (5-10%)

Configure serverless computing

- create and manage objects
- manage a Logic App resource
- manage Azure Function app settings
- manage Event Grid
- manage Service Bus

Develop for the cloud (45-50%)

Develop long-running tasks

- implement large-scale, parallel, and high-performance apps by using batches
- implement resilient apps by using queues
- implement code to address application events by using web hooks
- address continuous processing tasks by using web jobs

Configure a message-based integration architecture

- configure an app or service to send emails, Event Grid, and the Azure Relay Service
- create and configure a Notification Hub, an Event Hub, and a Service Bus
- configure queries across multiple products
- configure an app or service with Microsoft Graph

Develop for asynchronous processing

- implement parallelism, multithreading, processing, durable functions, Azure logic apps, interfaces with storage, interfaces to data access, and appropriate asynchronous compute models

Develop for autoscaling

- implement autoscaling rules and patterns (schedule, operational/system metrics, code that addresses singleton application instances, and code that addresses transient state)

Implement distributed transactions

- identify tools to implement distributed transactions (e.g., ADO.NET, elastic transactions, multi-database transactions)
- manage transaction scope
- manage transactions across multiple databases and servers

Develop advanced cloud workloads

- develop solutions by using intelligent algorithms that identify items from images and videos
- develop solutions by using intelligent algorithms related to speech, natural language processing, Bing Search, and recommendations and decision making
- create and integrate bots
- integrate machine learning solutions in an app
- create and implement IoT solutions

Implement authentication and secure data (5-10%)

Implement secure data solutions

- encrypt and decrypt data at rest
- encrypt data with Always Encrypted
- implement Azure Confidential Compute and SSL/TLS communications
- manage cryptographic keys in the Azure Key vault