

Content Mapping for Transition Exam AZ-302 Azure Solutions Architect

Exam number: AZ-302

Exam title: Microsoft Azure Certified Solutions Architect Transition

Publish date: September 24, 2018

Audience (IT professionals, Developers, Information workers, etc.): IT Professionals

Technology: Microsoft Azure

Exam Design

Audience Profile

THIS EXAM IS INTENDED ONLY FOR THOSE CANDIDATES WHO HAVE TAKEN EXAM 535: [ARCHITECTING MICROSOFT AZURE SOLUTIONS](#). IF YOU HAVE NOT TAKEN EXAM 535, YOU WILL NOT EARN A CERTIFICATION BY TAKING THIS EXAM. THIS TRANSITION EXAM AZ-302 IS AVAILABLE FOR A LIMITED TIME ONLY AND IS SCHEDULED FOR RETIREMENT ON JUNE 30, 2019.

The transition exam is intended for people who have already demonstrated skills in the content domain by passing the existing exam(s) that the new role-based certification exams will be replacing. They cover the delta between the current certification and what we expect people who earn the new certification to be able to do. We don't want to retest people on the same content where they have already demonstrated competence by passing the existing exam.

Transition exams cover net new content, content that wasn't covered in enough depth, and content on aspects of the technology that have likely changed since someone took the exam. As a result, the transition exam is not shorter than a typical exam but more focused on the key tasks and skills that were not assessed in the existing exam or certification that is being replaced.

Candidates for this exam are Azure Solution Architects who advise stakeholders and translates business requirements into secure, scalable, and reliable solutions.

Candidates should have advanced experience and knowledge across various aspects of IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data management, budgeting, and governance. This role requires managing how decisions in each area affects an overall solution.

Candidates must be proficient in Azure administration, Azure development, and DevOps, and have expert-level skills in at least one of those domains.

Skills Measured

Determine Workload Requirements (15-20%)

Determine Feasibility and Refine Requirements

May include but not limited to: 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

May include but not limited to: Optimize app service, compute, identity, network, and storage costs

Course: AZ-301.2: Designing a Data Platform Solution

- Module 1 - Backing Azure Solutions with Azure Storage

Course: AZ-301.3: Designing for Deployment, Migration, and Integration

- Module 1 - Deploying Resources with Azure Resource Manager

Course: AZ-301.4: Designing an Infrastructure Strategy

- Module 1 - Application Architecture Patterns in Azure
- Module 2 - Building Azure IaaS-Based Server Application

Course: AZ-300.3: Understanding Cloud Architect Technology Solutions

- Module 1 - Selecting Compute and Storage Solutions
- Module 2 - Hybrid Networking

Course: AZ-300.4: Creating and Deploying Apps

- Module 2 - Creating Apps and Services Running on Service Fabric

Design for Identity and Security (5-10%)

Design Authorization

May include but not limited to: 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.

Course: AZ-301.1: Designing for Identity and Security

- Module 1 - Managing Security & Identity for Azure Solutions
- Module 2 - Integrating SaaS Services Available on the Azure Platform

Course: AZ-300.5: Implementing Authentication and Secure Data

- Module 1 - Implementing Authentication
- Module 2 - Implementing Secure Data

Design a Business Continuity Strategy (15-20%)

Design a Site Recovery Strategy

May include but not limited to: 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

Course: AZ-300.2: Implementing Workloads and Security

- Module 1 - Evaluating and Performing Server Migration to Azure
- Module 2 - Implementing and Managing Application Services

Course: AZ-301.2: Designing a Data Platform Solution

- Module 1 - Backing Azure Solutions with Azure Storage
- Module 3 - Monitoring & Automating Azure Solutions

Course: AZ-301.3: Designing for Deployment, Migration, and Integration

- Module 1 - Deploying Resources with Azure Resource Manager

Design for High Availability

May include but not limited to: 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

Course: AZ-301.4: Designing an Infrastructure Strategy

- Module 1 - Application Architecture Patterns in Azure
- Module 2 - Building Azure IaaS-Based Server Application

Implement Workloads and Security (5-10%)

Configure serverless computing

May include but not limited to: Create and manage objects; manage a Logic App resource; manage Azure Function app settings; manage Event Grid; manage Service Bus

Implement Authentication and Secure Data (5-10%)

Implement secure data solutions

May include but not limited to: 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

Course: AZ-300.2: Implementing Workloads and Security

- Module 1 - Evaluating and Performing Server Migration to Azure

Course: AZ-300.5: Implementing Authentication and Secure Data

- Module 1 - Implementing Authentication
- Module 2 - Implementing Secure Data

Develop for the Cloud (45-50%)

Develop long-running tasks

May include but not limited to: 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

May include but not limited to: 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

May include but not limited to: Implement parallelism, multithreading, processing, durable functions, Azure logic apps, interfaces with storage, interfaces to data access, and appropriate asynchronous compute models

Develop for autoscaling

May include but not limited to: Implement autoscaling rules and patterns (schedule, operational/system metrics, code that addresses singleton application instances, and code that addresses transient state

Implement distributed transactions

May include but not limited to: 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

May include but not limited to: 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

Course: AZ-300.6: Developing for the Cloud

- Module 1 - Developing Long-Running Tasks and Distributed Transactions
- Module 2 - Configuring a Message-Based Integration Architecture
- Module 3 - Developing for Asynchronous Processing
- Module 4 - Developing for Autoscaling
- Module 5 - Developing Azure Cognitive Services Solutions