

Exam AZ-200: Microsoft Azure Developer Core Solutions (beta) – Skills Measured

Select the appropriate cloud technology solution (15-20%)

Select an appropriate compute solution

- *May include but not limited to:* Leverage appropriate design patterns; select appropriate network connectivity options; design for hybrid topologies

Select an appropriate integration solution

- *May include but not limited to:* Address computational bottlenecks, state management, and OS requirements; provide for web hosting if applicable; evaluate minimum number of nodes

Select an appropriate storage solution

- *May include but not limited to:* Validate data storage technology capacity limitations; address durability of data; provide for appropriate throughput of data access; evaluate structure of data storage; provide for data archiving, retention, and compliance

Develop for cloud storage (30-35%)

Develop solutions that use storage tables

- *May include but not limited to:* Connect to storage; design and implement policies to tables; query a table storage by using code

Develop solutions that use Cosmos DB storage

- *May include but not limited to:* Choose a consistency level; choose appropriate API for Cosmos DB Storage; create, read, update, and delete tables in Cosmos storage by using code; manage documents and collections in Cosmos DB Storage

Develop solutions that use file storage

- *May include but not limited to:* Implement quotas for File Shares in storage account; move items in file shares between containers asynchronously; set file storage container properties in metadata

Develop solutions that use a relational database

- *May include but not limited to:* Create, read, update, and delete database tables by using code; implement dynamic data masking

Develop solutions that use blob storage

- *May include but not limited to:* Create a shared access signature for a blob; move items in blob storage between containers asynchronously; set blob storage container properties in metadata

Developing for caching and content delivery solutions

- *May include but not limited to:* Develop for Azure Redis cache, storage on Content Delivery Networks (CDNs); develop code to address session state and cache invalidation

Create Platform as a Service (PaaS) Solutions (35-40%)

Create web applications by using PaaS

- *May include but not limited to:* Create an Azure app service web app by using Azure CLI, PowerShell, and other tools; create documentation for the API by using open source and other tools; create an App Service Web App for containers; create an App Service background task by using WebJobs

Create mobile apps using PaaS

- *May include but not limited to:* Add push notifications for mobile app; enable offline sync for mobile app; implement a remote instrumentation strategy for mobile devices

Create an app service Logic App

- *May include but not limited to:* Create a custom connector for Logic Apps, a custom template for a Logic App; create a Logic App; package an Azure App Service Logic App

Create app or service that runs on Service Fabric

- *May include but not limited to:* Develop a stateful Reliable Service and a stateless Reliable Service; develop an actor-based Reliable Service; write code to consume Reliable Collections in your service

Create serverless functions

- *May include but not limited to:* Implement the bindings for the function (input and output); implement the function trigger by using a data operation, timer, webhook, or other tools; develop an Azure Function app for containers by using Azure Portal, CLI, and other tools; develop an Azure Service Fabric Mesh App

Schedule bulk operations

- *May include but not limited to:* Define the batch output and conditions by using Batch Service API; write code to run a batch job; run a batch job by using Azure CLI, Azure Portal, and other tools

Create solutions that use Azure Kubernetes Service

- *May include but not limited to:* Configure diagnostic settings on resources; create a container image by using a Docker file; create an Azure Container Service (ACS/AKS) cluster by using the Azure CLI and Azure Portal; publish an image to the Azure Container Registry; implement an application that runs on an Azure Container Instance; implement container instances by using Azure Container Service (ACS/AKS), Azure Service Fabric, and other tools; manage container settings by using code

Design and develop applications that use media services

- *May include but not limited to:* Implement an application using Video Indexer, Video API, Preview, and other media related services; implement file-based encoding and Azure Media Analytics; develop media solutions that use AI services (e.g., content moderation, optical character recognition, video summarization, face detection, etc.)

Secure cloud solutions (15-20%)

Implement authentication

- *May include but not limited to:* Implement authentication by using certificates, forms-based authentication, tokens, Windows-integrated authentication; implement multi-factor authentication by using Azure AD options

Implement access control

- *May include but not limited to:* Implement Claims-Based Access Control (CBAC) and Role-Based Access Control (RBAC) authorization

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