

Exam AZ-201: Microsoft Azure Developer Advanced Solutions (beta) – Skills Measured

Develop for an Azure cloud model (50-55%)

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

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

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

Enable search of textual content

- *May include but not limited to:* Create an Azure Search index by using code, Azure Portal, etc.; import searchable data by using code, Azure Portal, etc.; query the Azure Search index by using code

Instrument an app or service and implement logging

- *May include but not limited to:* Configure instrumentation in an app or service by using Application Insights and other tools; configure logging service by using Application Insights, Azure Alerts, Azure Dashboards, Metrics Explorer, and other tools (e.g., ELK)

Implement cloud integration solutions (25-30%)

Manage APIs by using API Management (APIM)

- *May include but not limited to:* Analyze recommendations on security center; create an APIM instance; configure authentication for APIs; create an API gateway; define policies for APIs

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 an application message model

- *May include but not limited to:* Create a message schema and a message exchange; create an event model; create topics and subscriptions

Develop Azure Cognitive Services, Bot, and IoT solutions (20-25%)

Integrate Azure Cognitive Services in an application

- *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

- *May include but not limited to:* Create a bot by using the Bot Framework; create a natural language conversation flow; manage bots by using the Azure Portal; register a bot by using the Bot Framework

Create and implement IoT solutions

- *May include but not limited to:* Configure Azure Time Series Insights; configure Stream Analytics service for inputs and outputs; establish bidirectional communication with IoT devices by using IoT Hub; register devices with IoT Hub Device Provisioning Service