



Course AZ-300T06-A: Developing for the Cloud Exam: AZ-300

COURSE OVERVIEW



Course Modality

Instructor-led
(classroom)



Course Time

1 days



Course Level

Intermediate



Course Language

English

Learn how to configure a message-based integration architecture, develop for asynchronous processing, create apps for autoscaling, and better understand Azure Cognitive Services solutions.

Prerequisites:

- ✓ Prior to taking this course, it is recommended that you have passed the Azure Administrator (AZ-103) exam.

Intended Audience:

This course is intended for:

Successful Cloud Solutions Architects begin this role with practical experience with operating systems, virtualization, cloud infrastructure, storage structures, billing, and networking.

Skill Covered:

After completing this course, students will be able to:

- ✓ How to configure a message-based integration architecture
- ✓ Understand how to Develop for Asynchronous Processing
- ✓ Begin creating apps for Autoscaling
- ✓ Understand Azure Cognitive Services Solutions

COURSE CURRICULUM

Module 1:

Developing Long-Running Tasks and Distributed Transactions

- ✓ Topics for this module include: Implementing large-scale, parallel, and high-performance apps using batches HPC using Microsoft Azure Virtual Machines Implementing resilient apps by using queues As well as, implementing code to address application events by using webhooks. Implementing a webhook gives an external resource a URL for an application. The external resource then issues an HTTP request to that URL whenever a change is made that requires the application to take an action.

Module 2:

Configuring a Message-Based Integration Architecture

Lessons

- ✓ Configure an app or service to send emails
- ✓ Configure an event publish and subscribe model
- ✓ Configure the Azure Relay service
- ✓ Configure apps and services with Microsoft Graph

After completing this module, students will be able to:

- ✓ How to configure a message-based integration architecture

Module 3: **Developing for Asynchronous Processing**

Lessons

- ✓ Implement parallelism, multithreading, and processing
- ✓ Implement Azure Functions and Azure Logic Apps
- ✓ Implement interfaces for storage or data access
- ✓ Implement appropriate asynchronous computing models
- ✓ Implement autoscaling rules and patterns

After completing this module, students will be able to:

- ✓ Understand how to Develop for Asynchronous Processing

Module 4: **Developing for Autoscaling**

Lessons

- ✓ Implementing autoscaling rules and patterns
- ✓ Implementing code that addresses singleton application instances
- ✓ Implementing code that addresses a transient state

After completing this module, students will be able to:

- ✓ Begin creating apps for Autoscaling

Module 5:

Developing Azure Cognitive Services Solutions

Lessons

- ✓ Developing Solutions using Computer Vision
- ✓ Developing solutions using Bing Web Search
- ✓ Developing solutions using Custom Speech Service
- ✓ Developing solutions using QnA Maker

After completing this module, students will be able to:

- ✓ Understand Azure Cognitive Services Solutions

Module 6:

Develop for Azure Storage

Lessons

- ✓ Develop Solutions that use Azure Cosmos DB Storage
- ✓ Develop Solutions that use a Relational Database
- ✓ Modeling a Database by using Entity Framework Core
- ✓ Develop Solutions that use Microsoft Azure Blob Storage
- ✓ Manipulating Blob Container Properties in .NET

After completing this module, students will be able to:

- ✓ Understand Azure Storage services such as blobs and Cosmos DB