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Course Outline :: AZ-200T03-A::

Module Title   :   **AZ-200T03-A: Develop Azure Platform as a Service Solutions**

Duration   :   **1 day**

About this course

This course is part of a series of four courses to help you prepare for Microsoft's Azure Developer certification exam AZ-200: Develop Core Microsoft Azure Cloud Solutions. These courses are designed for developers who already know how to code in at least one of the Azure-supported languages.

The coursework covers solutions for: creating App Service Web Apps; notification and offline sync for mobile apps; Service Fabric; serverless Azure Functions; managing bulk operations through the Batch Service API; Azure Kubernetes Service; and Azure Media Services.

Audience profile

These courses are for experienced programmers who want to develop and host solutions in Azure. Learners should have some experience with Azure and must be able to program in at least one Azure-supported language. These course focus on C#, Node.js, Azure CLI, Azure PowerShell, and JavaScript.

At course completion

After completing this course, students will be able 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
- Add push notifications and enable offline sync for mobile apps
- Develop stateful and stateless apps on Service Fabric
- Create Azure functions including bindings and triggers
- Define and run scheduled bulk operations
- Create an Azure Container Service (ACS/AKS) cluster using Azure CLI and Azure Portal
- Develop media solutions that use AI services

Course Outline

Module 1: Creating App Service Web Apps

Lessons

- Introduction to Web Apps
- Using shell commands to create App Service Web Apps

- Creating background tasks using WebJobs in Azure App Service
- Using Swagger to document an API

After completing this module, students will be able 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

Module 2: Creating mobile apps

Lessons

- Getting started with mobile apps in App Service
- Enabling push notifications for your app
- Enabling offline sync for your app

After completing this module, students will be able to:

- Add push notifications and enable offline sync for mobile apps

Module 3: Creating an app service Logic App

Lessons

- Overview of Azure Logic Apps
- Creating a Logic App
- Creating custom connectors for Logic Apps
- Creating a custom template for a Logic App

Module 4: Creating an app or service that runs on Service Fabric

Lessons

- Understanding Azure Service Fabric
- Creating a Reliable Service
- Creating a Reliable Actors app
- Working with Reliable Collections

After completing this module, students will be able to:

- Develop stateful and stateless apps on Service Fabric

Module 5: Creating Azure Functions

Lessons

- Azure Functions overview
- Develop Azure Functions using Visual Studio

- Triggers and bindings

After completing this module, students will be able to:

- Create Azure functions including bindings and triggers

Module 6: Scheduling bulk operations

Lessons

- Azure Batch overview
- Running Batch jobs
- Using the .NET Batch Management client library

After completing this module, students will be able to:

- Define and run scheduled bulk operations

Module 7: Create solutions that use Azure Kubernetes Service

Lessons

- Creating an Azure Kubernetes Service cluster
- Azure Container Registry
- Azure Contaner Instances

After completing this module, students will be able to:

- Create an Azure Container Service (ACS/AKS) cluster using Azure CLI and Azure Portal

Module 8: Developing apps for Azure Media Services

Lessons

- Introduction to Azure Media Services
- Azure Media Services v3 concepts
- Upload, encode, and stream with .NET
- Analyze your video with .NET

After completing this module, students will be able to:

- Develop media solutions that use AI services