

AZ-203T02-A: Develop Azure Platform as a Service compute solutions

OBJECTIVE

In this course students will gain the knowledge and skills needed to implement Azure Platform as a Service features and services in their development solutions. Students will learn how to create and manage Azure App Service resources, integrate push and offline sync in their mobile apps, and how to document an API. Students will also learn how to create and test Azure Functions.

COURSE TOPICS

Module 1: Create App Service web apps

Azure App Service Web Apps (or just Web Apps) is a service for hosting web applications, REST APIs, and mobile back ends. Web Apps adds the power of Microsoft Azure to your application, via security, load balancing, autoscaling, and automated management.

Lessons

- Azure App Service core concepts
- Creating an Azure App Service web app
- Creating background tasks by using WebJobs in Azure App Service

After completing this module, students will be able to:

- Understand App Service core concepts and capabilities
- Create App Service web apps by using Azure CLI, Azure Portal, and PowerShell
- Create continuous and triggered WebJobs

Module 2: Creating Azure App Service mobile apps

The Mobile Apps feature of Azure App Service gives enterprise developers and system integrators a mobile-application development platform that's highly scalable and globally available.

Lessons

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

After completing this module, students will be able to:

- Push their app on to the Mobile App service
- Register apps for push notifications

Module 3: Create Azure App Service API apps

This module covers how to create and document an Azure App Service API.

Lessons

- Creating APIs
- Using Swagger to document an API

After completing this module, students will be able to:

- Create an APIM instance and create a new API
- Use Swashbuckle to create Swagger objects in ASP.NET Core

Module 4: Implement Azure Functions

Azure Functions is a solution for easily running small pieces of code, or "functions," in the cloud. You can write just the code you need for the problem at hand, without worrying about a whole application or the infrastructure to run it.

Lessons

- Azure Functions overview
- Develop Azure Functions using Visual Studio
- Implement durable functions

After completing this module, students will be able to:

- Understand the core features and functionality of Azure Functions
- Create functions, bindings, and triggers
- Know common patterns for Durable Functions and be able to create them

PREREQUISITES

- Design and Connectivity Patterns
- Hybrid Networking
- Address Durability of Data and Caching
- Measure Throughput and Structure of Data Access

TRAINING APPROACH

This course includes lectures, course notes, exercises and hands-on practice.

COURSE DURATION

Bundle Course in 3 days

Time: 9:00am to 6:00pm

Lunch Time: 1:00pm to 2:00pm

CERTIFICATION COMPLETION

A certificate of completion is provided for all trainees attending the course.