

AZ 201T03 A Develop Azure Cognitive Services, Bot, and IoT Solutions

Course Summary

Description

This course is part of a series of four courses to help you prepare for Microsoft's Azure Developer certification exam AZ-201: Develop Advanced 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 how to integrate Azure Cognitive Services, like Computer Vision, QnA Maker, and natural language processing in your solution. You'll also learn how to create and manage bots using the Bot Framework and Azure portal. The course also covers leveraging Azure Time Series Insights, Stream Analytics and the IoT Hub for your IoT solution.

This class is part of the following 5-day comprehensive class: MOC 27201 - Microsoft Azure Developer Advanced Solutions <https://www.protechtraining.com/pt21914>

Objectives

By the end of this course, students will be able to:

- Learn to develop solutions using Computer Vision.
- Use speech services and natural language processing in your app.
- Create and manage dictionaries for FAQ generation by using QnA maker.
- Leverage Bing Search in your application.
- Create and register simple bot using the Bot Framework, and manage a bot using the Azure Portal.
- Configure Azure Time Series Insights for your IoT solution.
- Configure the Stream Analytics Service for inputs and outputs for your IoT device.
- Register your device with the IoT Hub Device Provisioning Service.

Topics

- Develop Azure Cognitive Services solutions
- Create and integrate bots
- Create and implement IoT solutions

Audience

These courses are for experienced programmers who want to develop and host solutions in Azure.

Prerequisite

Learners should have some experience with Azure and must be able to program in at least one Azure-supported language. These courses focus on C#, Node.js, Azure CLI, Azure PowerShell, and JavaScript.

Duration

Two Days

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Course Outline

- I. *Develop Azure Cognitive Services solutions*
 - A. Cognitive Services overview
 - B. Develop solutions using Computer Vision
 - C. Develop solutions using Bing Web Search
 - D. Develop solutions using Custom Speech Service
 - E. Develop solutions using QnA Maker

- II. *Create and integrate bots*
 - A. Azure Bot Service overview
 - B. Create a bot using the Bot Builder SDK for .NET
 - C. Using Language Understanding in your bot
 - D. Register a bot with Bot Service
 - E. Managing a bot using the Azure Portal

- III. *Create and implement IoT solutions*
 - A. Working with the Azure IoT Hub
 - B. Working with Azure Time Series Insights
 - C. Working with Azure Stream Analytics