AZ-203 Developing Solutions for Microsoft Azure

Course Overview

View Course Dates & Register Today

This is a 5-day class

This six-MOC packaged set aligned to Azure Exam: Developing Solutions for Microsoft Azure contains courseware that helps prepare students for Exams AZ-203. Passing this exam is required to earn the Developing Solutions for Microsoft Azure certification.

Who Should Attend

Students that are interested in Azure development or in passing the Microsoft Azure Developer Associate certification exam.

Course Objectives

Please refer to Overview

Course Outline

1 IMPLEMENT SOLUTIONS THAT USE VIRTUAL MACHINES

Provision VMs Create ARM templates Configure Azure Disk Encryption for VMs

2 IMPLEMENT BATCH JOBS BY USING AZURE BATCH SERVICES

Azure Batch overview Run a batch job by using the Azure CLI and Azure Portal Run batch jobs by using code Manage batch jobs by using the Batch Service API

3 CREATE CONTAINERIZED SOLUTIONS

Create an Azure Managed Kubernetes Service (AKS) cluster Create container images for solutions Publish an image to the Azure Container Registry Run containers by using Azure Container Instance or AKS

4 CREATE APP SERVICE WEB APPS

Azure App Service core concepts
Creating an Azure App Service web app
Creating background tasks by using Web Jobs in Azure App
Service

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5 CREATING AZURE APP SERVICE MOBILE APPS

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

6 CREATE AZURE APP SERVICE API APPS

Creating APIs
Using Swagger to document an API













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7 IMPLEMENT AZURE FUNCTIONS

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

8 DEVELOP SOLUTIONS THAT USE AZURE TABLE STORAGE

Azure Table storage overview Authorization in Table storage Table service REST API

9 DEVELOP SOLUTIONS THAT USE AZURE COSMOS DB STORAGE

Azure Cosmos DB overview
Managing containers and items
Create and update documents by using code

10 DEVELOP SOLUTIONS THAT USE A RELATIONAL DATABASE

Azure SQL overview Create, read, update, and delete database tables by using code

11 DEVELOP SOLUTIONS THAT USE MICROSOFT AZURE BLOB STORAGE

Azure Blob storage overview Working with Azure Blob storage

12 IMPLEMENT AUTHENTICATION

Microsoft identity platform
Implement OAuth2 authentication
Implement managed identities for Azure resources
Implement authentication by using certificates, forms-based authentication, or tokens
Implement multi-factor authentication

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13 IMPLEMENT ACCESS CONTROL

Claims-based authorization Role-based access control (RBAC) authorization

14 IMPLEMENT SECURE DATA SOLUTIONS

Encryption options
End-to-end encryption
Implement Azure confidential computing
Manage cryptographic keys in Azure Key Vault

15 INTRODUCTION TO AZURE MONITOR

Overview of Azure Monitor











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16 DEVELOP CODE TO SUPPORT SCALABILITY OF APPS AND SERVICES

Implement autoscale Implement code that addresses singleton application instances Implement code that handles transient faults

17 INSTRUMENT SOLUTIONS TO SUPPORT MONITORING AND LOGGING

Configure instrumentation in an app or server by using Application Insights
Analyze and troubleshoot solutions by using Azure Monitor

18 INTEGRATE CACHING AND CONTENT DELIVERY WITHIN SOLUTIONS

Azure Cache for Redis Develop for storage on CDNs

19 DEVELOP AN APP SERVICE LOGIC APP

Azure Logic Apps overview Create Logic Apps by using Visual Studio Create custom connectors for Logic Apps Create custom templates for Logic Apps

20 INTEGRATE AZURE SEARCH WITHIN SOLUTIONS

Create and query an Azure Search Index Full text search in Azure Search

21 API MANAGEMENT

Introduction to the API Management service Securing your APIs Defining API policies

22 DEVELOP EVENT-BASED SOLUTIONS

Implement solutions that use Azure Event Grid Implement solutions that use Azure Event Hubs Implement solutions that use Azure Notification Hubs

23 DEVELOP MESSAGE-BASED SOLUTIONS

Implement solutions that use Azure Service Bus Implement solutions that use Azure Queue Storage queues

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