Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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AZ-204: Developing Solutions for Microsoft Azure

CODE:	LENGTH:	PRICE:
MCS_AZ204T00	40 Hours (5 dage)	kr 25,970.00

Description

This course teaches developers how to create end-to-end solutions in Microsoft Azure. Students will learn how to implement Azure compute solutions, create Azure Functions, implement and manage web apps, develop solutions utilizing Azure storage, implement authentication and authorization, and secure their solutions by using KeyVault and Managed Identities. Students will also learn how to connect to and consume Azure services and third-party services, and include event- and message-based models in their solutions. The course also covers monitoring, troubleshooting, and optimizing Azure solutions.

Audience

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

Prerequisites

Students should have 1-2 years professional development experience and experience with Microsoft Azure. They must be able to program in an Azure Supported Language.

Programme

Module 1: Creating Azure App Service Web Apps
Students will learn how to build a web application on the Azure App Service platform. They will learn how the platform functions and how to create, configure, scale, secure, and deploy to the App Service platform.
• Azure App Service core concepts
• Creating an Azure App Service Web App
• Configuring and Monitoring App Service apps
• Scaling App Service apps
• Azure App Service staging environments
Module 2: Implement Azure functions
This module covers creating Functions apps, and how to integrate triggers and inputs/outputs in to the app.
• Azure Functions overview
• Developing Azure Functions
• Implement Durable Functions
Module 3: Develop solutions that use blob storage
Students will learn how Azure Blob storage works, how to manage data through the hot/cold/archive blob storage lifecycle, and how to use the Azure Blob storage client library to manage data and metadata.
• Azure Blob storage core concepts
• Managing the Azure Blob storage lifecycle
• Working with Azure Blob storage
Module 4: Develop solutions that use Cosmos DB storage
Students will learn how Cosmos DB is structured and how data consistency is managed. Students will also learn how to create Cosmos DB accounts and create databases, containers, and items by using a mix of the Azure Portal and the .NET SDK.
• Azure Cosmos DB overview
• Azure Cosmos DB data structure
• Working with Azure Cosmos DB resources and data
Module 5: Implement IaaS solutions
This module instructs students on how to use create VMs and container images to use in their solutions. It covers creating VMs, using ARM templates to automate resource deployment, create and manage Docker images, publishing an image to the Azure Container Registry, and running a container in Azure Container Instances.
• Provisioning VMs in Azure

• Create and deploy ARM templates
• Create container images for solutions
• Publish a container image to Azure Container Registry
• Create and run container images in Azure Container Instances
Module 6: Implement user authentication and authorization
Students will learn how to leverage the Microsoft Identity Platform v2.0 to manage authentication and access to resources. Students will also learn how to use the Microsoft Authentication Library and Microsoft Graph to authenticate a user and retrieve information stored in Azure, and how and when to use Shared Access Signatures.
• Microsoft Identity Platform v2.0
• Authentication using the Microsoft Authentication Library
• Using Microsoft Graph
• Authorizing data operations in Azure Storage
Module 7: Implement secure cloud solutions
This module covers how to secure the information (keys, secrets, certificates) an application uses to access resources. It also covers securing application configuration information.
• Manage keys, secrets, and certificates by using the KeyVault API
• Implement Managed Identities for Azure resources
• Secure app configuration data by using Azure App Configuration
Module 8: Implement API Management
Students will learn how to publish APIs, create policies to manage information shared through the API, and to manage access to their APIs by using the Azure API Management service.
• API Management overview
• Defining policies for APIs
• Securing your APIs
Module 9: Develop App Service Logic Apps
This module teaches students how to use Azure Logic Apps to schedule, automate, and orchestrate tasks, business processes, workflows, and services across enterprises or organizations.
• Azure Logic Apps overview
• Creating custom connectors for Logic Apps
Module 10: Develop event-based solutions
Students will learn how to build applications with event-based architectures.
• Implement solutions that use Azure Event Grid
• Implement solutions that use Azure Event Hubs
• Implement solutions that use Azure Notification Hubs
Module 11: Develop message-based solutions
Students will learn how to build applications with message-based architectures.
• Implement solutions that use Azure Service Bus
• Implement solutions that use Azure Queue Storage queues
Module 12: Monitor and optimize Azure solutions
This module teaches students how to instrument their code for telemetry and how to analyze and troubleshoot their apps.
• Overview of monitoring in Azure
• Instrument an app for monitoring
• Analyzing and troubleshooting apps
• Implement code that handles transient faults
Module 13: Integrate caching and content delivery within solutions
Students will learn how to use different caching services to improve the performance of their apps.
• Develop for Azure Cache for Redis
• Develop for storage on CDNs

Test and Certification

Microsoft Certified: Azure Developer Associate

Session Dates

På anmodning. Kontakt os venligst

Yderligere Information

Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.