5 Days | 20532: Developing Microsoft Azure Solutions

Developing Microsoft Azure Solutions Training is a five-day course that focuses on the considerations necessary while building a highly available solution in the cloud. This training is intended for professionals who have working experience in building ASP.NET and C# applications.

After completing this course, professionals will also achieve the skill-set of working on the Microsoft Azure platform and a basic understanding of the services it offers.

Through this course, students also get an opportunity to take an existing ASP.NET MVC application and expand its functionality as part of moving it to Azure.

This training will prepare the candidates for the 70-532: Developing Microsoft Azure Solutions Certification exam.

Course Details

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Course Outline

Module 1: Overview of the Microsoft Azure Platform

This module introduces Microsoft Azure that provides a collection of services which you can use as building blocks for your cloud applications.

Lessons

- Azure Services

- Azure Portals

Module 2: Building Application Infrastructure in Azure

In this module, you will explore how Azure provides networking, backup, and virtualization services as part of its Infrastructure-as-a-Service (IaaS) offering.

Lessons

- Azure Virtual Machine Workloads

- Constructing Azure Virtual Machines

- Highly Available Azure Virtual Machines

- Migrating Azure Virtual Machine Instances

- Customizing Azure Virtual Machine Networking

- Virtual Machine Configuration Management

Module 3: Hosting Web Applications on the Azure Platform

This module provides gives an overview of the Azure Web Apps service.

Lessons

- Azure Web Apps

- Hosting Web Applications in Azure

- Configuring an Azure Web App

- Publishing an Azure Web App

Module 4: Storing SQL Data in Azure

This module explores how Microsoft Azure platform provides a database as a service offering that allows developers to use SQL in the same way as they would in an on-premises location.

Lessons

- Azure SQL Database Tools

- Storing SQL Data in Azure

- Securing and Recovering an Azure SQL Database Instance

- Managing SQL Databases in Azure

Module 5: Designing Cloud Applications for Resiliency

This module explores the capacity of individuals to rethink the way they design their applications and the patterns that are used, with regard to the scalability and reliability metrics present for the cloud applications.

Lessons

- Application Design Practices for Highly Available Applications

- Application Analytics

- Building High-Performance Applications by Using ASP.NET

- Common Cloud Application Patterns

- Caching Application Data

Module 6: Storing Tabular Data in Azure

This module explores how Microsoft Azure platform provides a SQL as a Service that allows developers to use SQL data and queries in the same manner as they would use in an on-premises implementation

Lessons

- Azure Storage Overview

- Azure Storage Tables Overview

- Table Entity Transactions

Module 7: Storing and Consuming Files from Azure Storage

This module talks about Azure's Blob storage mechanism that not only offers high performance but also supports integration to Microsoft Azure Content Delivery Network (CDN) for low latency downloads.

Lessons

- Storage Blobs

- Controlling Access to Storage Blobs and Containers

- Configuring Azure Storage Accounts

- Azure Files

Module 8: Designing a Communication Strategy by Using Queues and Service Bus

This module explores the function of Microsoft Azure to facilitate communication between content and worker roles through provision of two queuing mechanisms that you can use for this purpose.

Lessons

- Azure Storage Queues

- Azure Service Bus

- Azure Service Bus Queues

- Azure Service Bus Relay

- Azure Service Bus Notification Hubs

Module 9: Automating Integration with Azure Resources

This module will explore automating the lifecycle of the services by using client libraries, Windows PowerShell, REST, and the Resource Manager.

Lessons

- Azure SDK Client Libraries

- Scripting Azure Service Management by Using Windows PowerShell

- Azure REST Interface

- Azure Resource Manager

Module 10: Securing Azure Web Applications

This module introduces Azure Active Directory, an identity provider that can provide identity and access functionality for your custom applications or SaaS applications.

Lessons

- Azure Active Directory

- Azure AD Directories

- Azure AD Multi-Factor Authentication

Who Should Attend

This Developing Microsoft Azure Solutions training targets professionals who have basic experience in implementing and monitoring Microsoft Azure solutions.

Candidates are also proficient with the development tools, techniques, and approaches used to build application solutions are welcome to opt for this training.

Pre Requisite

In addition to their professional experience, candidates must have experience working with the Azure platform. Candidates experience can include:

- Create a virtual network

- Create and manage a storage account

- Create, configure, and connect to a SQL Databases instance

- Configure and deploy web applications

- Creating and configuring Azure Virtual Machines

- Creating Azure Web Apps from the gallery

- Deploying and monitoring Azure Web Apps

- Manage blobs and containers in a storage account

- Identify the implications of importing a SQL standalone database

- Manage users, groups, and subscriptions in an Azure Active Directory instance

- Implement a point-to-site network

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Exams

Microsoft Certified Professional (MCP) [70-532]

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