

20532 Developing Microsoft Azure Solutions

Overview

This course offers students the opportunity to take an existing web application and expand its functionality as part of moving it to Azure. The course does not require any existing experience with the ASP.NET platform but does require experience with C#. This course focuses on the development considerations and decisions necessary when building a highly available solution in the cloud. This course also prepares the students for the 70-532: Developing Microsoft Azure Solutions certification exam.

[Register Online](#)

Schedule

Class Length: 5 Days

G2R = "Guaranteed to Run" | OLL = "Online LIVE"
ILT = "Instructor-Led-Training"

This course is not currently available on the public schedule. Please contact us using the information in the footer below to inquire about future dates or to schedule a private class.

Prerequisites

- 10979 Microsoft Azure Fundamentals

Prerequisite Comments

Before attending this course, students must have experience working with the Azure platform. They will also have a general understanding of ASP.NET and C# concepts for the lab scenario. Candidates experience can include:

- Compare services available in the Azure platform
- Configure and deploy ASP.NET web applications
- Creating Azure WebSites from the gallery
- Deploying and monitoring Azure WebSites
- Creating and configuring Azure Virtual Machines
- Describe the relationship between Cloud Services and Virtual Machines
- Deploy existing Cloud Service packages
- Create and manage a Storage account
- Manage blobs and containers in a Storage account
- Create, configure and connect to a SQL Databases instance
- Identify the implications of importing a SQL Standalone database
- Manage users, groups and subscriptions in an Azure Active Directory instance
- Create a virtual network
- Implement a point to site network

Target Audience

The candidates targeted by this training 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 using C#.

Course Objectives

After completing this course, students will be able to:

- Compare the services available in the Azure platform.
- Configure and deploy web applications.

- Creating Azure Web Apps from the gallery.
- Deploying and monitoring Azure Web Apps.
- Creating and configuring Azure Virtual Machines.
- Create and manage a storage account.
- Manage blobs and containers in a storage account.
- Create, configure and connect to a SQL Databases instance.
- Identify the implications of importing a SQL standalone database.
- Manage users, groups and subscriptions in an Azure Active Directory instance.
- Create a virtual network.

Course Outline

Overview of the Microsoft Azure Platform

Azure Services
Management Portals
Lab : Using the Azure Preview Portal

Building Application Infrastructure in Azure

Constructing Azure Virtual Machines
Azure Virtual Machine Workloads
Migrating Azure Virtual Machine Instances
Highly Available Azure Virtual Machines
Virtual Machine Configuration Management
Customizing Azure Virtual Machine Networking
Lab : Creating an Azure Virtual Machine for Development and Testing

Hosting Web Applications on the Azure Platform

Azure Web Apps
Hosting Web Applications in Azure
Configuring an Azure Web App
Publishing an Azure Web App
Lab : Creating an ASP.NET Web App by Using Azure Web Apps

Storing SQL Data in Azure

Storing SQL Data in Azure
Managing SQL Databases in Azure
Azure SQL Database Tools
Securing and Recovering an Azure SQL Database Instance
Lab : Storing Event Data in Azure SQL Databases

Designing Cloud Applications For Resiliency

Application Design Practices for Highly Available Applications
Application Analytics
Building High Performance Applications by Using ASP.NET
Common Cloud Application Patterns
Caching Application Data

Storing Tabular Data in Azure

Azure Storage Overview
Azure Storage Tables Overview
Table Entity Transactions
Lab : Storing Event Registration Data in Azure Storage Tables

Storing and Consuming Files from Azure Storage

Storage Blobs
Controlling Access to Storage Blobs and Containers
Configuring Azure Storage Accounts
Azure Files
Lab : Storing Generated Documents in Azure Storage Blobs

Designing a Communication Strategy by Using Queues and Service Bus

Azure Storage Queues
Azure Service Bus
Azure Service Bus Queues
Azure Service Bus Relay
Azure Service Bus Notification Hubs
Lab : Using Queues and Service Bus to Manage Communication Between

Automating Integration with Azure Resources

Azure SDK Client Libraries
Scripting Azure Service Management by Using Windows
Azure REST Interface
Azure Resource Manager
Lab : Automating the Creation of Azure Assets using PowerShell

Automating Integration with Azure Resources

Azure SDK Client Libraries
Scripting Azure Service Management by Using Windows PowerShell
Azure REST Interface
Azure Resource Manager
Lab : Automating the Creation of Azure Assets using PowerShell and xPlat CLI

Securing Azure Web Applications

Azure Active Directory
Azure AD Directories
Azure AD Multi-Factor Authentication

Related Courses, Certifications, Exams ---

- 10979 Microsoft Azure Fundamentals