

20532: Developing Microsoft Azure Solutions (Microsoft Specialist)

Course Details

Course Outline

1. Overview of the Microsoft Azure Platform

- Azure Services
- Azure Portal
- Lab : Exploring the Azure Portal

2. Building Application Infrastructure in Azure

- 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
- Virtual Machine Scale Sets
- Lab : Creating an Azure Virtual Machine for Development and Testing

3. Hosting Web Applications on the Azure Platform

- Azure Web Apps
- Azure Logic and Function Apps
- Configuring an App Service App
- Publishing an Azure App Service App
- Supplemental Services
- Lab : Creating an ASP.NET Web App by Using Azure Web Apps

4. Storing SQL Data in Azure

- Azure SQL Database Overview
- Managing SQL Databases in Azure
- Azure SQL Database Tools
- Securing and Recovering an Azure SQL Database Instance
- Additional Managed Database Services
- Lab : Storing Event Data in Azure SQL Databases

5. 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

6. Storing Unstructured Data in Azure

- Azure Storage Overview
- Azure Storage Tables
- Azure Redis Cache
- Azure Search
- Azure Cosmos DB
- Lab : Storing Event Registration Data in Azure Storage Tables

7. Storing and Consuming Files from Azure Storage

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

8. 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 Web Applications in Azure

9. Automating Integration with Azure Resources

- Creating Azure Scripts using Azure PowerShell
- Creating Azure Scripts using Azure CLI
- Azure Resource Manager
- Azure REST Interface
- Azure Cloud Shell

- Lab : Automating the Creation of Azure Assets using PowerShell and Azure CLI

10. DevOps in Azure

- Continuous Integration
- Azure DevTest Labs
- Azure Resource Manager Templates
- Managed Solution Hosting
- Lab : Deploying Templated Environments Using the Cloud Shell

11. Securing Azure Web Applications

- Azure Active Directory
- Azure AD Directories
- Azure AD Offerings
- Azure Key Vault
- Lab : Integrating Azure Active Directory with the Events Administration Portal