

20532BC	Developing Microsoft Azure Solutions	5 DAYS	SATV : YES
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Course Description:

Get hands-on instruction and practice implementing Microsoft Azure in this two day Microsoft Official Course. You will be presented with Basic cloud computing concepts as well as specific Microsoft Azure features used in day to day administration of cloud resources. You will learn key Microsoft Azure concepts and basic implementation of Azure subscriptions, websites, virtual machines, storage, virtual networks, databases and Microsoft Azure Active Directory. This course is intended for information technology (IT) professionals who have a limited knowledge of cloud technologies and want to learn more about Microsoft Azure. This course provides the underlying knowledge required by all IT professionals who will be using Microsoft Azure, regardless of whether they are an administrator, developer, or database administrator. While this course does not map to an exam, it does provide you with the prerequisite knowledge for taking courses 20532B:Developing Microsoft Azure Solutions & 20533B:Implementing Microsoft Azure Infrastructure Solutions.

Course Outline

Module 1: Overview Of The Microsoft Azure Platform

- Azure Services
- Management Portals

Module 2: Establishing a Development Environment using Azure Virtual Machines

- Constructing Azure Virtual Machines
- Azure Virtual Machine Workloads
- Migrating Azure Virtual Machine Instances
- Using Remote Desktop Protocol (RDP) to Connect to a Virtual Machine

Module 3: Hosting Web Applications on the Azure Platform

- Azure Web Sites
- Hosting Web Applications in Azure
- Configuring an Azure Web Site
- Publishing an Azure Web Site
- Monitoring and Analyzing Running Azure Web Sites
- Lab Overview

Module 4: Storing SQL Data in Azure

- Azure SQL Database Overview
- Managing SQL Databases in Azure
- Using Azure SQL Databases with SQL Server Data Tools
- Migrating Data to Azure SQL Databases
- Replication and Recovery of Azure SQL Database Instances

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Module 5: Designing Cloud Applications For Resiliency

- Design Considerations for Scale with Cloud Applications
- Application Design Practices for Highly Available Applications
- Building High Performance Applications using ASP.NET
- Common Cloud Application Patterns
- Application Analytics
- Caching Application Data

Module 6: Managing Cloud Services in Azure

- Overview of Cloud Services
- Cloud Service Web Roles
- Customizing Cloud Service Configurations
- Updating and Managing Cloud Service Deployments
- Cloud Service Worker Role
- Cloud Service Worker Role Processing
- Analyzing Application Cloud Service Role Instances

Module 7: Storing NoSQL Data in Azure

- Azure Storage Overview
- Azure Storage Tables Overview
- Table Entity Transactions
- Azure DocumentDB

Module 8: Storing and Consuming Files from Azure Storage

- Azure Storage Blobs
- Controlling Access to Storage Blobs & Containers
- Monitoring Storage Blobs
- Configuring Azure Storage Accounts
- Azure Files
- Uploading and Migrating Storage Data

Module 9: Designing a Communication Strategy using Queues and Service Bus

- Queue Mechanisms in Azure
- Azure Storage Queues
- Handling Storage Queue Messages
- Azure Service Bus
- Azure Service Bus Queues
- Azure Service Bus Relay
- Azure Service Bus Notification Hubs

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Module 10: Managing Infrastructure in Azure

- Azure Virtual Networks
- Highly Available Azure Virtual Machines
- Customize Azure Virtual Machine Networking

Module 11: Automating Integration with Azure Resources

- Azure SDK Client Libraries
- Virtual Machine Configuration Management
- Scripting Azure Service Management using PowerShell
- Azure REST Interface
- Azure Resource Manager

Module 12: Securing Azure Web Applications

- Azure Active Directory
- Introduction to Identity Providers
- Azure AD Directories
- Azure AD Multi-Factor Authentication
- Azure Role-Based Access Control

Module 13: Maintaining and Monitoring Web Solutions in Azure

- Deployment Strategies for Web Applications
- Deploying Azure Services
- Continuous Integration
- Monitoring Cloud Applications