

10978AC

Introduction to Azure for Developers

5 DAYS

This course offers students the opportunity to learn about Microsoft Azure development by taking an existing ASP.NET MVC application and expand its functionality as part of moving it to Azure. This course focuses on developing in Azure using Storage, Cloud Services, Service Bus, Active Directory, WebSites and SQL among other features.

Module 1: Creating Modular Web Applications Using Azure

What is a Cloud Service
Cloud Service Web Roles
Configuring a Web Role
Monitoring a Web Role

Module 2: Processing Background Logic Using Azure

Cloud Service Worker Roles
Creating a Worker Role
Configuring a Worker Role
Caching Data Using Roles

Module 3: Storing SQL Data in Azure

What is Azure SQL
Managing Servers And Databases in Azure SQL
Using Azure SQL with Data Tools
Migrating Data to Azure SQL
Using Azure SQL With Entity Framework

Module 4: Storing non-relational data in Azure

What is Azure Storage
Azure Table Storage
Using the Azure SDK to Manipulate Data in Table Storage
Monitoring Table Storage

Module 5: Overview of Azure

Azure Overview
Working with the Azure platform
Cloud Application Scenarios

Module 6: Creating and Managing Services in Azure

What is a Azure Service
Software as a Service
Platform as a Service
Infrastructure as a Service

Module 7: Managing Infrastructure in Azure

Infrastructure in Azure
Azure Virtual Machines

Module 8: Creating Web Sites using Azure

Azure Websites
Hosting Web Applications in Azure
Configuring an Azure Website
Publishing an Azure Website
Monitoring an Azure Website

Module 9: Storing Files and Media in Azure

Azure Blob Storage
Applying Permissions to Blob Storage
Using the Azure SDK to manipulate data in Blob Storage
Monitoring BLOB Storage
Using Blob Storage in the Storage Emulator

Module 10: Relaying Web Services Using Azure

Service Bus Relay
Implementing Service Bus Relay

Module 11: Asynchronously Notifying Applications Using Azure

Azure Service Bus Notification Hubs
Registering Devices with a Notification Hub
Pushing Messages to a Notification Hub

Module 12: Implementing Security in Web Applications using Azure

Azure Active Directory
Azure AD Directory
Azure AD Access Control Service
Azure AD Multi-Factor Authentication Provider

Module 13: Deploying Web Applications to Azure

Deployment Strategies for Azure Web Applications
Deploying Web Applications Using Cloud Service Packages
Deploying Web APPLICATIONS USING WEBDEPLOY
Monitoring Cloud Applications

Module 14: Developing Mobile Services using Azure

Azure Mobile Services
Communicating with Mobile Services
Customizing Mobile Services
Securing Mobile Services

Module 15: Storing Data in Queues Using Azure

Overview of Queues in Azure

Azure Queue Storage

Using the Azure SDK to manipulate data in Queue Storage

Monitoring Queue Storage

What is Azure Service Bus

Azure Service Bus Queues

Using the Azure SDK to Manipulate Data in Service Bus Queues