

Introduction to Azure

- ◆ Cloud technology overview
- ◆ What is PaaS/ SaaS/ IaaS
 - ◆ Overview of Azure
- ◆ Managing Azure with the Azure portal
 - ◆ Demo: Azure Portal
 - ◆ Overview of Azure Resource Manager
- ◆ Azure management services
- ◆ Azure Architecture
 - ◆ Development Tools
- ◆ Visual Studio tools
- ◆ Demo: Visual Studio tools

Virtual Networks in Microsoft Azure

- ◆ Creating a Virtual Network
- ◆ Understand Point-to-Site Networks
- ◆ Demo: Create Azure virtual networks.

Virtual Machines in Microsoft Azure

- ◆ Create and Configure Virtual Machines
- ◆ Workloads on Azure Virtual Machines
- ◆ Implement Images and Disks
- ◆ VM Networking
- ◆ Configure Disks
- ◆ Monitor Vms
- ◆ Demo: Create and Connect to Virtual Machines
- ◆ Demo: Create an Azure Virtual Network
- ◆ Demo: Configure Endpoints and Monitoring

Implementing Storage in Microsoft Azure

- ◆ Understand Cloud Storage
 - ◆ Blobs, Azure Files
 - ◆ Storage Queues, Tables
 - ◆ Managing Access
- ◆ Create and Manage Storage
 - ◆ Configure Diagnostics and Monitoring
 - ◆ Demo: Create and manage storage in Azure.

Web Apps for Azure Infrastructure

- ◆ Deploy & Configure Websites
 - ◆ Scaling
- ◆ Web App Deployment Models and Methods
 - ◆ Web Deploy Packages
 - ◆ Deployment Slots
- ◆ Demo: Deploying Azure Web Apps from the Portal
- ◆ Demo: Deploying Azure Web Apps from Visual Studio 2015

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
- ◆ Demo: WebRoles and Worker Roles

SQL Azure

- ◆ Introduction
- ◆ SQL Azure concepts
- ◆ Demonstration: Working with SQL Azure
- ◆ Data synchronization
 - ◆ Migration methods
 - ◆ Limitations
- ◆ Demo: Migration through SSMS and Visual Studio

Application Hosting Services

- ◆ Service Plans
- ◆ Hosting Databases
- ◆ Hosting services on-premises vs Windows Azure
- ◆ Demo: Managing Databases and Azure Subscriptions

Windows Azure Service Bus

- ◆ Introduction Windows Azure Service Bus
 - ◆ MSMQ vs Azure Service Bus
 - ◆ Windows Azure Service Bus Relays
 - ◆ Windows Azure Service Bus Queues
 - ◆ Windows Azure Service Bus Topics
- Demo: Windows Azure Service Bus Relays | Topics | Queues

Deploying Services

- ◆ Creating and deploying Web Application packages
- ◆ Command-line tools for web deployment packages
- ◆ Deploying to Windows Azure Environments
- ◆ Continuous delivery with TFS and GIT
- ◆ Best practices for production deployment
- ◆ Local Redundancy
- ◆ Geo-Redundancy
- ◆ Read-only Geo-Redundancy
 - ◆ Demo: Deploying services

Implementing Azure Active Directory

- ◆ Creating and managing Azure AD tenants
- ◆ Administering Active AD
- ◆ Extending on-premises Active Directory domain to Azure
- ◆ Implementing directory synchronization by using Azure AD Connect
- ◆ Configuring directory synchronization
- ◆ Federation Concepts
 - ◆ Identity management and access control

Identity Management and Access Control

- ◆ Windows Azure Access Control Service
- ◆ Azure Security Access Control
- ◆ Shared Access Signatures with Azure Service Bus and Queue Storage Services
- ◆ Shared Access Signatures Best Practices

No SQL in Azure

- ◆ Azure Document DB
- ◆ Other No-SQL Alternatives
- ◆ Demo: SQL queries, expressions, Built in Functions

Advanced Topics

- ◆ Introduction to Internet of Things - IoT
- ◆ Event Hubs