

Introduction to Azure

- Cloud technology overview
- What is PaaS/ SaaS/ IaaS
 - Overview of Azure
 - Managing Azure Subscriptions
- Managing Azure with the Azure portal
 - Demo: Azure Portal
- Overview of Azure Resource Manager
- Azure management services
- Azure Architecture

Virtual Networks in Microsoft Azure

- Creating a Virtual Network
- Understand Point-to-Site Networks
- Securing Virtual Network Resources
- Connecting Virtual Networks

Demo: Create Azure virtual networks

Virtual Machines in Microsoft Azure

- Create and Configure Virtual Machines
- Workloads on Azure Virtual Machines
- Deploying Virtual Machine Images
- VM Networking
 - Configuring Virtual Machines
 - Configuring Availability and Extensibility
- Configure Disks
- Backup and Restore data
- Georeplication for recovery
- Managing and Monitoring Virtual Machines
- Demo: Create and Connect to Virtual Machines
- Demo: Configure Endpoints and Monitoring

Implementing Storage in Microsoft Azure

- Overview of Azure Storage
 - Storage Services
 - Securing and Managing Storage
 - Storing and Accessing Data
 - Create and Manage Storage
 - Explore Windows Azure Storage costs
 - Configure Diagnostics and Monitoring
- Demo: Create and manage storage in Azure

Web Apps for Azure Infrastructure

- Introducing the Azure App Service Platform

- Deploy & Configure Websites
- Scaling and Performance
- Web App Deployment Models and Methods
- Web Deploy Packages
- Deployment Slots

Demo: Deploying Azure Web Apps from the Portal

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
- Create Database in SQL Azure
- Demonstration: Working with SQL Azure
- Configure active geo-replication for Azure SQL Database
- Migration methods
- Limitations

Demo: Understand Migration Strategy process through SSMS or 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

Manage and Understanding PowerShell Basics Using Azure Portal

- Installing PowerShell
- Getting started using PowerShell and scripting the Infra services

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- Provisioning resources using PowerShell script
Using Azure Cloud Shell from Azure Portal

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
- Using MFA for Secure Access
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

RBAC Roles

- Managing user access Roles using RBAC control
- Manage access using RBAC and the Azure portal
Overview of Classic subscription administrator roles

Azure Security Centre

- Monitor security and work loads
- Apply policy to ensure compliance with security standards
- Leverage advanced analytics and Threat intelligence to detect attacks
Limit your exposure to threats

Advanced Topics

- Introduction to Internet of Things – IoT
- Event Hubs

Introduction Azure Operations Management Suite

- Introduction
- OMS Architecture
- Log Analytics
- Monitoring Service using OMS
- Shared Access Signatures with Azure Service Bus and Queue Storage Services
- Shared Access Signatures Best Practices