

Azure Course Curriculum

Cloud Essentials

- Introduction to cloud
- computing
- Characteristics of cloud
- Cloud computing service
- Cloud deployment models

Azure Cloud computing

- Introduction to the Azure
- Cloud computing
- Azure Infrastructure
- Azure Services
- Azure CLI & PowerShell
- Azure Resource Manager (ARM)
- Azure Regions & Regions-Pair

Building Application Infrastructure in Azure

- Overview of Azure VMs
- Constructing Azure Virtual Machines
- Planning and Deploying Azure VMs
- Managing Azure VMs
- Backup VMs
- Manage security on VMs
- Monitoring VMs
- Azure Virtual Machine Workloads
- Customizing Azure Virtual Machine Networking

Azure Storage Services

- Overview of Azure Disks Storage
- Disks used by VMs
- Types of disks
- Introduction to Blob storage
- Types of Blobs
- Create an Azure storage account
- Managing container
- Managing Blob Operations

Azure Networking

- Introduction to Azure virtual network
- Azure Traffic Routing
- Virtual network peering
- Virtual Network Service Endpoints
- IP address
- Creation and configuration of Virtual Network
- VPN Gateway

Azure DNS

- Azure DNS overview
- DNS zones and records
- Delegation of DNS zones with Azure DNS
- Azure DNS for private domains

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Azure Traffic Manager

- Overview of Traffic Manager
- Traffic Manager routing methods
- Traffic Manager endpoints
- Managing Traffic Manager

Azure Load Balancer

- Overview of Azure Load Balancer
- Internet Load Balancer
- Internal Load Balancer
- Understand load balancer probes

Azure Virtual Machine Scale Sets

- Virtual machine scale set templates
- Deploy a scale set
- Create the scale set
- Azure Content Delivery Network
- Overview of the Azure Content Delivery Network (CDN)
- How CDN is used
- CDN Origin
- CDN Deployment
- CDN Cache control

Azure Site Recovery

- Overview of Site Recovery
- Business continuity and disaster recovery (BCDR) with Azure Recovery Services
- Replicate an Azure VM Set up and Run disaster recovery

Designing Cloud Applications for Resiliency

- Application Design Practices for Highly Available Applications
- Application Analytics
- Building High Performance Applications
- Common Cloud Application Patterns
- Caching Application Data

Azure SQL Database

- Overview of Azure SQL Database service
- Azure SQL Database Features
- Create and Manage SQL database

Azure Monitor

- Overview of Azure Monitor
- Azure Monitor Sources
- Azure Metric value
- Azure Alerts and Service Health

Azure Active Directory

- Azure Active Directory edition
- Azure Identity management
- Manage and control access
- Azure Identity solutions

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Hosting Web Applications on the Azure Platform

- Designing and deploying Azure WebApp
- Scaling up and scaling out WebApp
- Monitoring web apps
- Hosting Web Applications on the Azure Platform

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

Automating Integration with Azure Resources

- Azure SDK Client Libraries
- Scripting Azure Service Management by Using Windows
- PowerShell
- Azure REST Interface
- Azure Resource Manager

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