Microsoft Azure

Module1

Introduction to Cloud Computing

1. Understanding different Cloud Models
2. Advantages of Cloud Computing
3. Different Cloud Services
4. What is PaaS/ SaaS/ IaaS

Module 2

Microsoft Azure Platform

1. Introduction to Azure
2. Azure Features
3. Azure Services
4. Azure Management Portal
5. Azure Advantages
6. Managing Azure with the Azure portal
7. Managing Azure with Windows PowerShell
8. Overview of Azure Resource Manager
9. Azure management services

Module 3

Implementing and managing Azure networking

1. Overview of Azure networking
2. Implementing and managing Azure virtual networks
3. Configuring Azure virtual networks
4. Configuring Azure virtual network connectivity
5. Overview of Azure classic networking

Module 4

Implementing virtual machines

1. Overview of Azure Resource Managervirtual machines
2. Planning for Azure virtual machines
3. Deploying Azure Resource Manager virtual machines
4. Authoring Azure Resource Manager templates
5. Overview of classic virtual machines

Module 5

Managing virtual machines

1. Configuring virtual machines
2. Configuring virtual machine disks
3. Managing and monitoring Azure virtual machines
4. Managing classic virtual machines

Module 6

Implementing Azure App services

1. Introduction to App Service
2. Planning app deployment in App Service
3. Implementing and maintaining web apps
4. Configuring web apps
5. Monitoring web apps and Web Jobs
6. Implementing mobile apps
7. FTP Client(File Share)

Module 7

Implementing VM backup, restore

1. Implementing VM backup.
2. Working with SYSPREP
3. Implementing VM restore.
4. Blobs
5. Azure Files
6. Storage Queues
7. Tables

Module 8

Azure Storage

1. Implementing Storage in Microsoft Azure
2. Understand Cloud Storage
3. Azure Files
4. Blobs
5. Storage Queues
6. Tables
7. Create and Manage Storage
8. Configure Diagnostics and Monitoring

Module 9

Implementing Azure SQL Database

1. Planning and deploying Azure SQL Database
2. Implementing and managing Azure SQL Database
3. Managing Azure SQL Database security
4. Monitoring Azure SQL Database
5. Managing Azure SQL Database business continuity
6. Migrate the on-premises DB to Azure cloud
7. Create database in on-premises and synch with azure cloud
8. Sql Elastic Pool

Module 10

Protocols

1. Use protocols
2. Types of protocols
3. Differences between the protocols

Module 11

Implementing Azure Active Directory

1. Creating and managing Azure AD tenants
2. Configuring application and resource access with Azure AD
3. Overview of Azure AD Premium
4. Administering Active AD
5. Configuring Multi-Factor Authentication

Module 12

Managing Active Directory in a hybrid environment

1. Extending an on-premises Active Directory domain to Azure IaaS
2. Implementing directory synchronization by using Azure AD Connect
3. Implementing federation
4. Configuring directory synchronization
5. Synchronizing directories

Module 13

Implementing Azure Load Balancer

1. Create a Basic load balancer
2. Create virtual machines
3. Create a health probe
4. Create back-end servers
5. Create a load balancer rule
6. install IIS on the VM
7. Test the load balancer

Module 14

Azure with Power Shell

1. working with PowerShell
2. Create VNet, VM and other services

Module 15

Azure with CLI