

Microsoft Azure Infrastructure Solutions

Course Curriculum

Introduction to Azure

- Cloud technology overview
- Overview of Azure
- Managing Azure with the Azure portal
- Managing Azure with Windows PowerShell
- Overview of Azure Resource Manager
- Azure management services

Managing Microsoft Azure

- Use the Azure portals.
- Use Azure Resource Manager features via the Azure portal.
- Use Azure PowerShell

Implementing and managing Azure networking

- Overview of Azure networking
- Implementing and managing Azure virtual networks
- Configuring Azure virtual networks
- Configuring Azure virtual network connectivity
- Overview of Azure classic networking

Using a deployment template to implement Azure virtual networks

- Creating an Azure virtual network by using a deployment template
- Creating a virtual network by using PowerShell
- Configure virtual networks

Configuring connectivity between classic and Azure Resource Manager virtual networks

- Using a PowerShell script to connect a classic VNet and an Azure Resource Manager VNet
- Configuring a point-to-site VPN
- Validating virtual network connectivity

Implementing virtual machines

- Overview of Azure Resource Manager virtual machines
- Planning for Azure virtual machines
- Deploying Azure Resource Manager virtual machines
- Authoring Azure Resource Manager templates
- Overview of classic virtual machines

Creating Azure Resource Manager virtual machines in Azure

- Creating virtual machines by using the Azure portal and Azure PowerShell
- Validating virtual machine creation

Deploying Azure Resource Manager virtual machines by using Azure Resource Manager templates

- Using Visual Studio and an Azure Resource Manager template to deploy virtual machines
- Using Azure PowerShell and an Azure Resource Manager template to deploy virtual machines

Managing Azure virtual machines

- Configuring virtual machines
- Configuring virtual machine disks
- Managing and monitoring Azure virtual machines
- Managing classic virtual machines
- Configuring availability
- Implementing desired state configuration (DSC)
- Implementing storage space-based volumes

Planning and implementing storage, backup, and recovery services

- Planning storage
- Implementing and managing storage
- Implementing Azure Content Delivery Networks
- Implementing Azure Backup
- Planning for and implementing Azure Site Recovery
- Creating and configuring Azure storage
- Using Azure file storage
- Protecting data with Microsoft Azure Backup

Implementing Azure Active Directory

- Creating and managing Azure AD tenants
- Configuring application and resource access with Azure AD
- Overview of Azure AD Premium
- Administering Active AD
- Configuring SSO
- Configuring Multi-Factor Authentication
- Configuring SSO from a Windows 10-based computer that is joined to Azure AD