

Azure Infra

Duration

2 Days

Contents

Module 1: 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

Lab: Managing Microsoft Azure

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

Module 2: 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 networking in an infrastructure as a service (IaaS) version 1 (v1)

Lab: 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 a point-to-site VPN

Module 3: Implementing virtual machines

- Overview of IaaS v2 virtual machines
- Planning for Azure virtual machines
- Deploying Azure IaaS v2 virtual machines
- Authoring Azure Resource Manager templates
- Overview of IaaS v1 virtual machines

Lab: Creating IaaS v2 virtual machines in Azure

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

Module 4: Managing virtual machines

- Configuring virtual machines
- Configuring virtual machine disks

- Managing and monitoring Azure virtual machines
- Managing IaaS v1 virtual machines

Lab: Managing Azure virtual machines

- Configuring availability
- Implementing desired state configuration (DSC)
- Implementing storage space–based volumes

Module 5: Implementing Azure App services

- Introduction to App Service
- Planning app deployment in App Service
- Implementing and maintaining web apps
- Configuring web apps
- Monitoring web apps and WebJobs
- Implementing mobile apps
- Traffic Manager

Lab: Implementing websites

- Creating web apps
- Deploying a web app
- Managing web apps
- Implementing Traffic Manager

Module 6: 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

Lab: Planning and implementing storage

- Creating and configuring storage
- Using Azure file storage
- Protecting data with Microsoft Azure Backup

Module 7: Planning and implementing Azure SQL Database

- Planning and deploying Azure SQL Database
- Implementing and managing Azure SQL Database
- Managing Azure SQL Database security
- Monitoring Azure SQL Database
- Managing Azure SQL Database business continuity

Lab: Planning and implementing Azure SQL Database

- Creating, securing, and monitoring an Azure SQL Database
- Migrating a Microsoft SQL Server database to Azure SQL Database
- Restoring a database

Module 8: Implementing PaaS cloud services

- Planning and deploying PaaS cloud services
- Managing and maintaining cloud services

Lab: Implementing PaaS cloud services

- Deploying a PaaS cloud services
- Configuring deployment slots and Remote Desktop Protocol (RDP)
- Monitoring cloud services

Module 9: Implementing Azure Active Directory

- Creating and managing Azure AD tenants
- Configuring application and resource access with Azure AD
- Overview of Azure AD Premium

Lab: Implementing Azure AD

- Administering Active AD
- Configuring SSO

Module 10: Managing Active Directory in a hybrid environment

- Extending on-premises Active Directory domain to Azure
- Implementing directory synchronization by using Azure AD Connect
- Implementing federation

Lab: Implementing and managing Azure AD synchronization

- Configuring directory synchronization
- Synchronizing directories

Establishing a Development Environment using Azure Virtual Machines**Lessons**

- Constructing Azure Virtual Machines
- Azure Virtual Machine Workloads
- Migrating Azure Virtual Machine Instances
- Using Remote Desktop Protocol (RDP) to Connect to a Virtual Machine

Lab: Creating an Azure Virtual Machine for Development & Testing

Hosting Web Applications on the Azure Platform**Lessons**

- Azure Web Sites
- Hosting Web Applications in Azure
- Configuring an Azure Web Site
- Publishing an Azure Web Site
- Monitoring and Analyzing Running Azure Web Sites