Administering Windows Server Hybrid Core Infrastructure

Description

This course teaches IT Professionals how to manage core Windows Server workloads and services using on-premises, hybrid, and cloud technologies. It also teaches IT Professionals how to implement and manage on-premises and hybrid solutions such as identity, management, compute, networking, and storage in a Windows Server hybrid environment.

Course Content
Module 1: Identity services in Windows Server

- Introduction to AD DS
- Manage AD DS domain controllers and FSMO roles
- Implement Group Policy Objects
- Manage advanced features of AD DS

Module 2: Implementing identity in hybrid scenarios

- Implement hybrid identity with Windows Server
- Deploy and manage Azure IaaS Active Directory domain controllers in Azure

Module 3: Windows Server administration

- Perform Windows Server secure administration
- Describe Windows Server administration tools
- Perform post-installation configuration of Windows Server
- Just Enough Administration in Windows Server

Module 4: Facilitating hybrid management

- Administer and manage Windows Server IaaS virtual machines remotely
- Manage hybrid workloads with Azure Arc

Module 5: Hyper-V virtualization in Windows Server

- Configure and manage Hyper-V
- Configure and manage Hyper-V virtual machines
- Secure Hyper-V workloads
- Run containers on Windows Server
- Orchestrate containers on Windows Server using Kubernetes

Module 6: Deploying and configuring Azure VMs

- Plan and deploy Windows Server IaaS virtual machines
- Customize Windows Server IaaS virtual machine images
- Automate the configuration of Windows Server IaaS virtual machines

Module 7: Network infrastructure services in Windows Server

- Deploy and manage DHCP
- Implement Windows Server DNS
- Implement IP address management
- Implement remote access

Module 8: Implementing hybrid networking infrastructure

- Implement hybrid network infrastructure
- Implement DNS for Windows Server IaaS VMs
- Implement Windows Server IaaS VM IP addressing and routing

Module 9: File servers and storage management in Windows Server

- Manage Windows Server file servers
- Implement Storage Spaces and Storage Spaces Direct
- Implement Windows Server Data Deduplication
- Implement Windows Server iSCSI
- Implement Windows Server Storage Replica

Module 10: Implementing a hybrid file server infrastructure

- Overview of Azure file services
- Implementing Azure File Sync

Lab / Exercises
Official Microsoft Labs

- Implementing identity services and Group Policy
- Implementing integration between AD DS and Azure AD
- Managing Windows Server
- Using Windows Admin Center in hybrid scenarios
- Implementing and configuring virtualization in Windows Server
- Deploying and configuring Windows Server on Azure VMs
- Implementing and configuring network infrastructure services in Windows Server
- Implementing Windows Server IaaS VM networking
- Implementing storage solutions in Windows Server
- Implementing Azure File Sync

Documentation

- Access to Microsoft Learn (online learning content)

Exam

- This course prepares to the exam AZ-800: Administering Windows Server Hybrid Core Infrastructure. If you wish to take this exam, please contact our secretariat who will let you know the cost of the exam and will take care of all the necessary administrative procedures for you.

Participant profiles

- Windows Server Hybrid Administrators

Prerequisites

- Use administrative techniques and tools in Windows Server
- Identify tools used to implement hybrid solutions, including Windows Admin Center and PowerShell
- Implement identity services in Windows Server
- Implement identity in hybrid scenarios, including Azure AD DS on Azure IaaS and managed AD DS
- Integrate Azure AD DS with Azure AD
- Manage network infrastructure services
- Deploy Azure VMs running Windows Server, and configure networking and storage
- Administer and manage Windows Server IaaS Virtual Machine remotely
- Manage and maintain Azure VMs running Windows Server
- Configure file servers and storage
- Implement File Services in hybrid scenarios, using Azure Files and Azure File Sync

Objectives

- Use administrative techniques and tools in Windows Server
- Identify tools used to implement hybrid solutions, including Windows Admin Center and PowerShell
- Implement identity services in Windows Server

Niveau
Intermédiaire
Classroom Registration Price (CHF)
3200
Virtual Classroom Registration Price (CHF)
3000
Duration (in Days)
4
Reference
AZ-800T00