CLS | Learning Solutions

Why Learn Windows Server Hybrid Administrator Associate?

Manage core Windows Server workloads and services using on-premises, hybrid, and cloud technologies.

Implement and manage on-premises and hybrid solutions such as identity, management, compute, networking, and storage in a Windows Server hybrid environment.

Audience Profile :

- This four-day course is intended for Windows Server Hybrid Administrators who have experience working with Windows Server and want to extend the capabilities of their on-premises environments by combining on-premises and hybrid technologies.
- Windows Server Hybrid Administrators implement and manage on-premises and hybrid solutions such as identity, management, compute, networking, and storage in a Windows Server hybrid environment.

Prerequisites:

- Basic knowledge of core Microsoft compute, storage, networking, and virtualization technologies (implied in the first prerequisite).
- Experience and an understanding of core networking technologies such as IP addressing, name resolution, and Dynamic Host Configuration Protocol (DHCP).
- Basic knowledge of Azure Active Directory.
- Experience working hands-on with Windows client operating systems such as Windows 10 or Windows 11.

Course Overview:

- This five-day instructor-led course teaches IT professionals:
- how to deploy and configure Active Directory Domain Services (AD DS) in a distributed environment,
- how to implement Group Policy, how to perform backup and restore,
- how to monitor and troubleshoot Active Directory–related issues with Windows Server 2016/2019/2022. Additionally,
- this course teaches students how to deploy other Active Directory server roles, such as Active Directory Federation Services (AD FS) and Active Directory Certificate Services (AD CS).

Windows Server Hybrid Administrator Associate Outline:

- 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