AZ-802

Administer Windows Server

Description:

This course teaches IT professionals how to deploy, manage, secure, and troubleshoot Windows Server workloads across on-premises, hybrid, and cloud environments. The course covers Active Directory Domain Services, Hyper-V and Azure virtual machines, on-premises and hybrid networking, storage and file services, Windows Server security hardening, and monitoring and troubleshooting. It highlights administrative tools and technologies including Windows Admin Center, PowerShell, Azure Arc, Azure Monitor, Azure Update Manager, and Microsoft Defender for Cloud.

Students will be able to:

Deploy and manage AD DS
Manage Windows Server instances and workloads in a hybrid environment
Manage virtual machines
Implement and manage an on-premises and hybrid networking infrastructure
Manage storage and file services
Secure Windows Server infrastructure
Monitor and troubleshoot Windows Server environments

Course requirements:

- Experience administering Windows Server operating systems
- Familiarity with Active Directory Domain Services (AD DS) concepts and technologies
- Familiarity with Azure Arc and Azure portal basics
- Familiarity with Hyper-V and Azure virtual machines
- Familiarity with core networking technologies including DNS and DHCP
- Familiarity with storage concepts and file server management
- Basic knowledge of PowerShell and Azure monitoring services

This course is intended for:

This course is intended for Windows Server administrators who deploy, implement, manage, and troubleshoot Windows Server as a workload in on-premises, cloud, or hybrid environments. Candidates administer identity, security, compute, networking, storage, and monitoring for Windows Server, and they typically collaborate with architects, administrators, and engineers. Candidates should have experience administering Windows Server using technologies such as Windows Admin Center, Hyper-V, PowerShell, Azure Arc, Azure Monitor, Azure Update Manager, and Microsoft Defender for Cloud, and should be familiar with Active Directory Domain Services (AD DS).

Literature:

All participants will get original Microsoft student materials.

Hardware:

Classrooms are equipped with high-performance computers with Internet access and the possibility of wireless connection.

Syllabus:

Deploy and manage Active Directory Domain Services

- Deploy and manage Active Directory Domain Services domain controllers
- Create and manage Active Directory objects
- Create and configure Group Policy Objects
- Implement Group Policy Objects
- Manage advanced features of AD DS

Manage Windows Server instances and workloads in a hybrid environment

- Administer and manage Windows Server IaaS Virtual Machine remotely
- Describe Windows Server administration tools
- Manage hybrid workloads with Azure Arc

Manage virtual machines

- Configure and manage Hyper-V virtual machines
- Configure and manage Hyper-V
- Plan and deploy Windows Server IaaS Virtual Machines

Implement and manage an on-premises and hybrid networking infrastructure

- Implement Windows Server DNS
- Deploy and manage DHCP

Manage storage and file services

- Implement a hybrid file server infrastructure
- Manage Windows Server file servers
- Implement Storage Spaces and Storage Spaces Direct
- Implement Windows Server Data Deduplication
- Implement Windows Server iSCSI

Secure Windows Server infrastructure

- Hardening Windows Server
- Secure Windows Server user accounts

Monitor and troubleshoot Windows Server environments

- Monitor Windows Server performance
- Manage and monitor Windows Server event logs
- Troubleshoot on-premises and hybrid networking
- Troubleshoot Active Directory

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