Configuring Windows Server Hybrid Advanced Services

Course code: MOC AZ-801

This course teaches IT Professionals to configure advanced Windows Server services using on-premises, hybrid, and cloud technologies. The course teaches IT Professionals how to leverage the hybrid capabilities of Azure, how to migrate virtual and physical server workloads to Azure IaaS, and how to secure Azure VMs running Windows Server. The course also teaches IT Professionals how to perform tasks related to high availability, troubleshooting, and disaster recovery. The course highlights administrative tools and technologies including Windows Admin Center, PowerShell, Azure Arc, Azure Automation Update Management, Microsoft Defender for Identity, Azure Security Center, Azure Migrate, and Azure Monitor.

At course completion students will be able

Harden the security configuration of the Windows Server operating system environment

Enhance hybrid security using Azure Security Center, Azure Sentinel, and Windows Update Management

Apply security features to protect critical resources

Implement high availability and disaster recovery solutions

Implement recovery services in hybrid scenarios

Plan and implement hybrid and cloud-only migration, backup, and recovery scenarios

Perform upgrades and migration related to AD DS, and storage

Manage and monitor hybrid scenarios using WAC, Azure Arc, Azure Automation and Azure Monitor

Implement service monitoring and performance monitoring, and apply troubleshooting

Prerequisities

Knowledge in extent of the courses which are listed in the bellow sections **Previous Courses** and **Related Courses**

Good understanding of TCP/IP and DNS technologies

Course outline

Secure Windows Sever user accounts

Hardening Windows Server

Windows Server Update Management

Secure Windows Server DNS

Implement Windows Server IaaS VM network security

Audit the security of Windows Server IaaS Virtual Machines

Manage Azure updates

Create and implement application allowlists with adaptive application control

Configure BitLocker disk encryption for Windows IaaS Virtual Machines

Implement change tracking and file integrity monitoring for Windows Server IaaS VMs

Introduction to Cluster Shared Volumes

Implement Windows Server failover clustering

Implement high availability of Windows Server VMs

Implement Windows Server File Server high availability

Implement scale and high availability with Windows Server VMs

Implement Hyper-V Replica

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Protect your on-premises infrastructure from disasters with Azure Site Recovery

Implement hybrid backup and recovery with Windows Server IaaS

Protect your Azure infrastructure with Azure Site Recovery

Protect your virtual machines by using Azure Backup

Active Directory Domain Services migration

Migrate file server workloads using Storage Migration Service

Migrate Windows Server roles

Migrate on-premises Windows Server instances to Azure IaaS virtual machines

Upgrade and migrate Windows Server IaaS virtual machines

Containerize and migrate ASP.NET applications to Azure App Service

Monitor Windows Server performance

Manage and monitor Windows Server event logs

Implement Windows Server auditing and diagnostics

Troubleshoot Active Directory

Monitor Windows Server IaaS Virtual Machines and hybrid instances

Monitor the health of your Azure virtual machines by using Azure Metrics Explorer and metric alerts

Monitor performance of virtual machines by using Azure Monitor VM Insights

Troubleshoot on-premises and hybrid networking

Troubleshoot Windows Server Virtual Machines in Azure

Preparation for Microsoft certification

Most Microsoft certification exams do not require students to attend an official MOC course in order to pass the exam.

This applies to all certifications except for MCM

Official Microsoft MOC courses as well as our own GOC courses are good ways of preparation for Microsoft certifications such as MCP, MTA, MCSA, MCSE or MCM

This does not mean that official MOC courses would serve as the only necessary praparation. The primary goal of an MOC course is to provide for sufficient theoretical knowledge and practical experience to effectively work with the related product

MOC courses usually cover most of the topics required by their respective certification exams, but often do not give every topic the same amount of time and emphassis as may be required to completelly pass the exam

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