

Upgrading Your Skills to Windows Server 2016

Online-Training | Examen 743



Ausbildungsinhalte

Upgrading Your Skills to Windows Server 2016

Mit dem Bestehen des Examens 743 erlangen Sie als MCSA 2008 oder MCSA 2012 den Titel *Microsoft Certified Solutions Associate (MCSA) für Windows Server 2016*.

Ausbildungspfad (Upgrade) | Microsoft Certified Solutions Associate (MCSA) für Windows Server 2016

Mit der Zertifizierung zum *Microsoft Certified Solutions Associate (MCSA) für Windows Server 2016* demonstrieren Sie Ihre Kenntnisse über Installation, Administration und Support von Windows Server 2016.

Online-Training	Dauer	Examen
Upgrading Your Skills to Windows Server 2016	14 UE	743

Sie erlernen die Implementierung und die Konfiguration neuer Windows-Server-2016-Features und -Funktionalitäten und aktualisieren ihre Windows-Server-Kenntnisse auf die Version 2016.

Unterrichtseinheit	UE 01	743
Introducing Windows Server 2016 <ul style="list-style-type: none"> ✓ Selecting a suitable Windows Server edition ✓ What's new since Windows Server 2008 was released? ✓ Integration with Microsoft cloud services Installing Windows Server 2016 <ul style="list-style-type: none"> ✓ Hardware requirements ✓ Overview of installation options ✓ What is Server Core? 	<ul style="list-style-type: none"> ✓ What is Nano Server? ✓ Installing Nano Server Configuring Windows Server 2016 <ul style="list-style-type: none"> ✓ Post-installation configuration settings ✓ Managing servers remotely ✓ Using Windows PowerShell to manage servers ✓ Managing Nano Server ✓ Configuring Nano Server 	

Unterrichtseinheit	UE 02	743
Implementing containers in Windows Server 2016 <ul style="list-style-type: none"> ✓ Overview of containers ✓ Deploy container hosts ✓ Manage Windows containers ✓ Support for Docker in Windows Server 2016 Configure the Hyper-V role in Windows Server 2016 <ul style="list-style-type: none"> ✓ New features in Windows Server 2012 R2 Hyper-V 	<ul style="list-style-type: none"> ✓ New features in Windows Server 2016 Hyper-V ✓ Hyper-V Manager improvements ✓ Prerequisites and requirements for installing Hyper-V ✓ Best practices for configuring Hyper-V hosts ✓ Nested virtualization ✓ Migration to Azure virtual machines 	

Unterrichtseinheit	UE 03	743
Configuring Hyper-V storage <ul style="list-style-type: none"> ✓ Virtual hard disk file formats ✓ Types of virtual hard disks ✓ Shared virtual hard disks VM storage resiliency ✓ Converting and resizing disks ✓ Fibre Channel support in Hyper-V ✓ Location considerations for virtual hard disks ✓ Storing virtual machines on SMB 3.0 file shares Configuring Hyper-V networking <ul style="list-style-type: none"> ✓ New Hyper-V networking features in Windows Server 2012 Server 2012 R2 2016 	<ul style="list-style-type: none"> ✓ Types of Hyper-V networks ✓ Hyper-V virtual networking ✓ Best practices for configuring virtual networks Configuring Hyper-V virtual machines <ul style="list-style-type: none"> ✓ Overview of virtual machine settings ✓ What are virtual machine configuration versions? ✓ Virtual machine generation versions ✓ How memory works in Hyper-V ✓ Checkpoints and checkpoint management in Hyper-V ✓ Importing, exporting, and moving virtual machines in Hyper-V ✓ Best practices for configuring virtual machines 	

Unterrichtseinheit	UE 04	743
Configuring Hyper-V virtual machines <ul style="list-style-type: none"> ✓ Overview of virtual machine settings ✓ What are virtual machine configuration versions? ✓ Virtual machine generation versions ✓ How memory works in Hyper-V ✓ Checkpoints and checkpoint management in Hyper-V ✓ Importing, exporting, and moving virtual machines in Hyper-V ✓ Best practices for configuring virtual machines Lab Module 2: Implementing Hyper-V	Deploying AD DS domain controllers <ul style="list-style-type: none"> ✓ What's new in AD DS in Windows Server 2016? ✓ Deploying domain controllers in Windows Server 2016 ✓ Cloning virtual domain controllers ✓ Upgrading an Active Directory Forest to Windows Server 2016 ✓ Overview of Microsoft Passport Implementing service accounts <ul style="list-style-type: none"> ✓ Managing SPNs ✓ What are managed service accounts and group-managed service accounts? ✓ Configuring Kerberos delegation 	

Unterrichtseinheit	UE 05	743
Lab Module 3: Implementing Directory Services <p>Azure AD</p> <ul style="list-style-type: none"> ✓ What is Azure AD? ✓ When to use Azure AD ✓ Azure AD Authentication Protocols ✓ Multi-Factor Authentication ✓ What is Azure AD Join? <p>Integrating AD DS with Azure AD</p> <ul style="list-style-type: none"> ✓ On-premises AD DS and Microsoft Azure integration options ✓ Integrating Azure AD with applications ✓ When to use AD FS ✓ Synchronizing with Azure AD Connect 	Overview of AD FS <ul style="list-style-type: none"> ✓ What is identity federation? ✓ What is claims-based identity? ✓ Web services overview ✓ What is AD FS? ✓ Overview of Web Application Proxy ✓ AD FS and SSO in a single organization ✓ What is device registration? 	

Unterrichtseinheit	UE 06	743
Deploying AD FS <ul style="list-style-type: none"> ✓ Components in an AD FS deployment ✓ Prerequisites for an AD FS deployment ✓ Public key infrastructure and certificate requirements ✓ AD FS server roles <p>Implementing AD FS for a single organization</p> <ul style="list-style-type: none"> ✓ AD FS claims ✓ AD FS claim rules ✓ Claims provider trust ✓ Relying party trust <p>Implementing Web Application Proxy</p> <ul style="list-style-type: none"> ✓ What is new in Web Application Proxy? 	<ul style="list-style-type: none"> ✓ Configuring an application ✓ Web Application Proxy and AD FS proxy <p>Implementing SSO with Microsoft Online Services</p> <ul style="list-style-type: none"> ✓ AD FS and SSO with online services ✓ Configuring SSO for integration with Microsoft online services <p>LAB Module 4: Implementing AD FS (Part 1)</p> <p>Overview of storage in Windows Server 2016</p> <ul style="list-style-type: none"> ✓ New storage features in Windows Server 2016 ✓ What is Software Defined Storage? 	

Unterrichtseinheit	UE 07	743
LAB Module 4: Implementing AD FS (Part 2) <p>Overview of storage in Windows Server 2016</p> <ul style="list-style-type: none"> ✓ Overview of ReFS ✓ Overview of File Server Resource Manager ✓ File classification ✓ Optimizing storage in Windows Server 2016 <p>Configuring iSCSI Storage</p> <ul style="list-style-type: none"> ✓ Overview of iSCSI ✓ Components of iSCSI 	<ul style="list-style-type: none"> ✓ Managing iSCSI targets <p>Configuring the Storage Spaces feature in Windows Server 2016</p> <ul style="list-style-type: none"> ✓ What are storage spaces? ✓ The Storage Spaces Direct feature ✓ Provisioning a storage space ✓ Redundancy in storage spaces ✓ The Storage Replica feature ✓ Tiering storage 	

Unterrichtseinheit	UE 08	743
<p>Lab Module 5: Managing and optimizing storage in Windows Server 2016</p> <p>Overview of Dynamic Access Control</p> <ul style="list-style-type: none"> ✓ Overview of Dynamic Access Control ✓ Foundation technologies for Dynamic Access Control ✓ Alternatives to Dynamic Access Control ✓ What is identity? ✓ What are claims and claim types? ✓ Central access policies <p>Planning for a Dynamic Access Control implementation</p> <ul style="list-style-type: none"> ✓ Why implement Dynamic Access Control? ✓ Planning for implementation of a central access policy ✓ Planning for file classifications ✓ File-access auditing 	<p>Configuring Dynamic Access Control</p> <ul style="list-style-type: none"> ✓ Prerequisites for implementing Dynamic Access Control ✓ Enabling support for Dynamic Access Control and claims in AD DS ✓ Implementing and configuring central access policies ✓ Implementing file-access auditing ✓ Implementing access-denied assistance ✓ Implementing file classifications <p>Implementing Work Folders</p> <ul style="list-style-type: none"> ✓ Overview of Work Folders ✓ Components of Work Folders ✓ Configuring Work Folders by using Group Policy settings 	

Unterrichtseinheit	UE 09	743
<p>Lab Module 06: Implementing secure data access for users and devices (Part 1)</p> <p>Overview of networking enhancements</p> <ul style="list-style-type: none"> ✓ What is converged networking? ✓ Overview of software-defined networking ✓ Components of a DNS solution ✓ New DNS features in Windows Server 2016 ✓ DNS policies Overview of DHCP ✓ Changes in DHCP features in Windows Server 2016 ✓ What is DHCP failover? 	<p>Implementing IPAM</p> <ul style="list-style-type: none"> ✓ What is IPAM? ✓ IPAM architecture ✓ Scenarios in which to use IPAM ✓ Requirements for implementing IPAM ✓ IPAM management and monitoring 	

Unterrichtseinheit	UE 10	743
<p>Managing IP address spaces with IPAM</p> <ul style="list-style-type: none"> ✓ Using IPAM to manage IP addressing ✓ Adding address spaces to IPAM ✓ Administering IPAM ✓ Implementing IPAM reporting and monitoring <p>Lab Module 06: Implementing secure data access for users and devices (Part 2)</p> <p>Remote access overview</p> <ul style="list-style-type: none"> ✓ Overview of remote access technologies ✓ Remote access features in Windows Server 2016 ✓ Overview of remote applications access ✓ When to deploy a PKI for remote access 	<p>Implementing DirectAccess</p> <ul style="list-style-type: none"> ✓ Components of DirectAccess ✓ How DirectAccess works for internal clients ✓ How DirectAccess works for external clients ✓ Requirements and Prerequisites ✓ Using the Getting Started Wizard ✓ Monitoring DirectAccess ✓ Troubleshooting DirectAccess 	

Unterrichtseinheit	UE 11	743
<p>Implementing VPN</p> <ul style="list-style-type: none"> ✓ VPN Scenarios ✓ VPN tunneling protocols ✓ Authentication Options ✓ Configuring a VPN infrastructure ✓ Configuring a Network Policy Server ✓ The process of configuring a VPN client <p>Lab Module 8: Implementing remote access</p> <p>Overview of failover clustering</p> <ul style="list-style-type: none"> ✓ What is availability? ✓ Failover clustering improvements in Server 2012 R2 	<ul style="list-style-type: none"> ✓ Failover clustering improvements in Windows Server 2016 ✓ Failover cluster components ✓ What are failover and tailback? ✓ Failover cluster networks ✓ Failover cluster storage ✓ What is quorum? ✓ Quorum modes in Windows Server 2016 failover clustering ✓ What are Cluster Shared Volumes? ✓ CSV improvements 	

Unterrichtseinheit		UE 12	743
<p>Module 9: Implementing failover clustering</p> <p>Implementing a failover cluster</p> <ul style="list-style-type: none"> ✓ Preparing for implementing failover clustering ✓ Hardware requirements for failover cluster implementation ✓ Network requirements for failover cluster implementation ✓ AD DS and infrastructure requirements for failover cluster ✓ Software requirements for failover cluster implementation <p>Configuring highly-available applications and services on a failover cluster</p> <ul style="list-style-type: none"> ✓ Identifying cluster resources and services ✓ The clustering server roles process ✓ Failover cluster management tasks ✓ Managing cluster nodes ✓ Configuring application failover settings 	<p>Maintaining a failover cluster</p> <ul style="list-style-type: none"> ✓ Monitoring failover clusters ✓ Backing up and restoring a failover cluster configuration ✓ Troubleshooting failover clusters ✓ What is CAU? ✓ How CAU works <p>Implementing a stretch cluster</p> <ul style="list-style-type: none"> ✓ What is a stretch cluster? ✓ Synchronous and asynchronous replication ✓ Site-aware failover clusters, Choosing quorum witness ✓ Considerations for deploying a stretch cluster ✓ Considerations for stretch cluster failover and tailback <p>Lab Module 9: Implementing failover clustering</p>		

Unterrichtseinheit		UE 13	743
<p>Module 10: Implementing Failover Clustering with Windows Server 2016 Hyper-V</p> <p>Overview of the integration of Hyper-V Server 2016 with failover clustering</p> <ul style="list-style-type: none"> ✓ Options for making application and services highly available ✓ How does a failover cluster work with Hyper-V nodes? ✓ Failover clustering with Windows Server 2016 Hyper-V features ✓ Best practices for implementing high availability in a virtual environment 	<p>Implementing Hyper-V virtual machines on failover clusters</p> <ul style="list-style-type: none"> ✓ Components of Hyper-V clusters ✓ Prerequisites for implementing Hyper-V failover clusters ✓ Implementing Hyper-V VM on a failover cluster ✓ Configuring CSVs ✓ Configuring a shared virtual hard disk ✓ Implementing Scale-Out File Servers for virtual machines ✓ Considerations for implementing Hyper-V clusters ✓ Maintaining and monitoring virtual machines in clusters <p>Implementing Windows Server 2016 Hyper-V virtual machine migration</p> <ul style="list-style-type: none"> ✓ Virtual machine migration options ✓ How storage migration works ✓ How Live Migration works 		

Unterrichtseinheit		UE 14	743
<p>Implementing Hyper-V Replica</p> <ul style="list-style-type: none"> ✓ What is Hyper-V Replica? ✓ Hyper-V Replica in Windows Server 2016 ✓ Configuring Hyper-V Replica ✓ Failover with Hyper-V Replica <p>Lab Module 10: Implementing Failover Clustering with Windows Server 2016 Hyper-V</p> <p>Implementing data recovery options</p> <ul style="list-style-type: none"> ✓ Features for file recovery in Windows Server 2016 ✓ Windows Server Backup ✓ Using checkpoints in Hyper-V 	<p>Implementing Microsoft Azure Backup</p> <ul style="list-style-type: none"> ✓ What is Azure Backup? ✓ Enabling and configuring Azure Backup ✓ Restoring data from Azure Backup <p>Implementing server recovery</p> <ul style="list-style-type: none"> ✓ Options for server recovery ✓ Server recovery tools in Windows RE ✓ Considerations for recovering virtual servers <p>Lab Module 11: Data recovery in Windows Servers 2016</p>		

Weitere wichtige Informationen

Optimale Prüfungsvorbereitung

Für die optimale Vorbereitung auf das Microsoft-Examen, empfehlen wir die IT-Prüfungsvorbereitungs-Plattform CertBase, die Sie unter www.CertBase.de aufrufen können. In diesem Portal werden Fragen bereitgestellt, die den Original Microsoft Prüfungen gleichen und mit deren Hilfe Sie Ihre Chancen auf ein erfolgreiches Bestehen der gewünschten Prüfung deutlich steigern.



Microsoft Test- und Demoumgebungen

Unter der Adresse www.mycontoso.de finden Sie eine Auswahl an Werkzeugen zur Demonstration aktueller Microsoft-Produkte und Services. Diese vorkonfigurierten Demoumgebungen aus der Microsoft Demonstration Plattform eignen sich auch sehr gut für administrative Übungszwecke.

Sie haben Fragen oder Anregungen?

Falls Sie Fragen, Wünsche oder Anregungen zu dieser oder zu anderen Ausbildungen haben, stehen wir Ihnen montags bis donnerstags in der Zeit von 08:00 – 17:00 Uhr und freitags von 08:00 – 13:00 Uhr sehr gerne zur Verfügung.

Sie erreichen uns unter:

Telefon: 09526 95 000 60
E-Mail: info@ITKservice.NET

Ihre Ansprechpartner für das ITKwebcollege.ADMIN

Christoph Holzheid
Anne Hirschlein
Sylvia Sonntag
Thomas Wölfel



Copyrights und Vertragsbedingungen

Das Copyright © aller Trainings, inkl. aller Aufzeichnungen und Unterlagen obliegt der ITKservice GmbH & Co. KG. Die Nutzung aller ITKwebcollege-Leistungen ist nur für den Vertragspartner und nur für den internen Gebrauch gestattet. Eine Weitergabe der Leistungen an Dritte ist nicht zulässig.

Kontaktdaten | Impressum

ITKservice GmbH & Co. KG

Fuchsstädter Weg 2
97491 Aidhausen

Telefon: 09526 95 000 60
Telefax: 09526 95 000 63

www: ITKservice.NET
E-Mail: info@ITKservice.NET

Sitz der Gesellschaft: Aidhausen | Amtsgericht Bamberg, HRA 11009, Ust-Id: DE 262 344 410 | Vertreten durch: Thomas Wölfel (GF).

Bildnachweise: Alle in diesem Dokument dargestellten Bilder wurden von der ITKservice GmbH & Co. KG bei ccvision.de lizenziert.

Redaktion: ITKservice GmbH & Co. KG | Copyright © 2017 ITKservice GmbH & Co. KG.