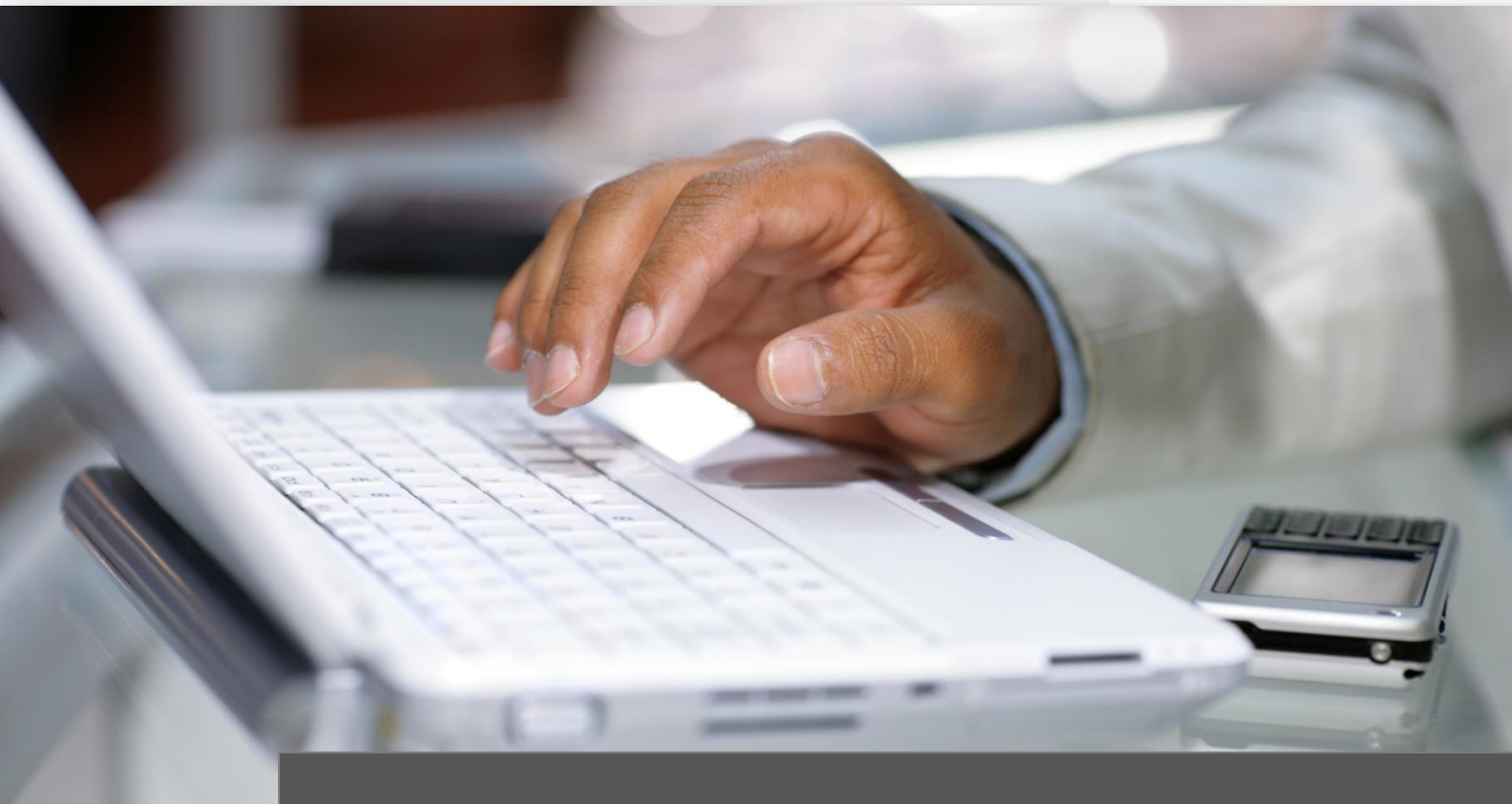


Monitoring and Operating a Private Cloud

Online-Training | Examen 246



Ausbildungsinhalte

Monitoring and Operating a Private Cloud with System Center 2012

Das Examen 246 ist eins von ca. zehn Wahlexamen, mit deren bestehen Sie als MCSA Server 2012 oder MCSA Server 2016 den Titel *Microsoft Certified Solutions Expert (MCSE) Cloud Platform and Infrastructure* erlangen.

Ausbildungspfad | Microsoft Certified Solutions Expert (MCSE) Cloud Platform and Infrastructure

Die Zertifizierung zum *Microsoft Certified Solutions Expert (MCSE) Cloud Platform and Infrastructure* bestätigt, dass Sie ein hocheffizientes und modernes Rechenzentrum betreiben können. Sie besitzen Fachkenntnisse in den Bereichen Cloud-Technologie, Netzwerk, Identitätsmanagement, Systemmanagement, Virtualisierung und Speicher.

Die Zertifizierung *MCSE Cloud Platform and Infrastructure* muss jährlich mit dem Abschluss eines zusätzlichen Wahlexamens bestätigt werden.

Online-Training	Dauer	Examen
Monitoring and Operating a Private Cloud with System Center 2012	12 UE	246

Sie lernen eine Cloud mit Hilfe von Microsoft System Center 2012 betreiben und überwachen zu können. Der Schwerpunkt liegt auf der Verwaltung und Administration einer Cloudumgebung einschließlich Überwachung von wichtigen Infrastrukturelementen und Anwendungen in der Cloud.

Unterrichtseinheit	UE 01	246
Planning Virtualization for Microsoft Exchange Server 2013 <ul style="list-style-type: none"> ✓ The Advent of Cloud Computing ✓ Public, Private and Hybrid Clouds ✓ The Hybrid Cloud Model ✓ Methods to Implement a Hybrid Cloud Model ✓ System Center 2012 R2 and the Hybrid Cloud Model Requirements for a Private Cloud <ul style="list-style-type: none"> ✓ Key Business Requirements ✓ Service Identification and Onboarding ✓ Datacenter Administrators and Private Cloud Administrators Requirements for a Public or Hybrid Cloud <ul style="list-style-type: none"> ✓ Key Considerations When Moving to a Public Cloud ✓ Key Considerations When Moving to a Hybrid Cloud 	Operating a Hybrid Cloud Infrastructure with System Center <ul style="list-style-type: none"> ✓ The System Center Virtual Machine Manager Role in Provisioning a Private Cloud ✓ The System Center App Controller Role in Managing Public and Private Clouds ✓ The System Center Service Manager Role in Service Management ✓ The System Center Orchestrator Role in Automating Cloud Processes ✓ The Windows Azure Pack role in Managing Multi-Tenant Clouds 	

Unterrichtseinheit	UE 02	246
Maintaining the Health of a Cloud <ul style="list-style-type: none"> ✓ Monitoring the Health and Performance of the Private Cloud ✓ Key Health and Performance Indicators for a Cloud ✓ Monitoring Cloud Resources Integrating System Center Components <ul style="list-style-type: none"> ✓ Advantages of Integrating System Center Components ✓ System Center 2012 R2 Integration with Windows Azure ✓ Verifying the Health and Performance of the System Center Components 	Overview of System Center 2012 R2 Virtual Machine Manager <ul style="list-style-type: none"> ✓ Introduction to Virtual Machine Manager ✓ Key Features of Virtual Machine Manager ✓ New Features Introduced with System Center 2012 R2 Virtual Machine Manager ✓ Virtual Machine Manager Security 	

Unterrichtseinheit	UE 03	246
Managing the Virtual Environment with Virtual Machine Manager <ul style="list-style-type: none"> ✓ Fabric Resources in Virtual Machine Manager ✓ Software Defined Networking ✓ Virtual Machines ✓ Overview of Jobs ✓ Overview of the Settings Navigation Pane Overview of Service Templates <ul style="list-style-type: none"> ✓ Preparing to Create a Service Template ✓ Components of a Service Template 	Creating Clouds <ul style="list-style-type: none"> ✓ What is a Microsoft private cloud? ✓ Configuring Cloud Resources ✓ Configuring Cloud Capacity ✓ Configuring Cloud Capabilities ✓ Configuring Tenant Quota and Permissions 	

Unterrichtseinheit	UE 04	246
VMM Profiles <ul style="list-style-type: none"> ✓ Guest Operating System Profiles ✓ Hardware Profiles ✓ Requirements for Creating a SQL Server Profile ✓ Configuration Options in the SQL Server Profile ✓ Overview of Application Profiles ✓ Configuration Options in Application Profiles Web Deploy Packages <ul style="list-style-type: none"> ✓ What Is Microsoft Web Deploy? ✓ Installing Web Deploy and Creating a Web Deploy Package ✓ Adding a Web Deploy Package to an Application Profile 	Overview of Server App-V <ul style="list-style-type: none"> ✓ What Is Server App-V? ✓ Sequencing an Application Data-Tier Application Packages <ul style="list-style-type: none"> ✓ What Is a Data-Tier Application Package? ✓ Using DAC Packages with VMM Deploying Services through App Controller <ul style="list-style-type: none"> ✓ Connecting App Controller to Windows Azure ✓ Deploying Virtual Machines and Services to Windows Azure ✓ Delegating Access in App Controller ✓ Deploying a service to the Private Cloud 	

Unterrichtseinheit	UE 05	246
Overview of System Center 2012 R2 Operations Manager <ul style="list-style-type: none"> ✓ Overview of System Center 2012 R2 Operations Manager ✓ Agent Deployment in Operations Manager ✓ Configuring Custom Monitoring ✓ Monitoring the Network Infrastructure ✓ Monitoring Distributed Applications 	Configuring Custom Monitoring <ul style="list-style-type: none"> ✓ Using Management Pack Templates Agent Deployment in Operations Manager <ul style="list-style-type: none"> ✓ Using the Operations Console to Deploy Agents ✓ Installing Agents Manually ✓ Using AD DS to Configure Agents ✓ Deploying Agents by using the Operations Console 	

Unterrichtseinheit	UE 06	246
Configuring Custom Monitoring <ul style="list-style-type: none"> ✓ Outside In Monitoring with Global Service Monitor ✓ Monitoring the Health State of Components Monitoring the Network Infrastructure <ul style="list-style-type: none"> ✓ Operations Manager Network Device Support and Extended Monitoring Capabilities ✓ Security Considerations When Monitoring the Network Infrastructure ✓ Configuring Network Device Monitoring in Operations Manager Monitoring Distributed Applications <ul style="list-style-type: none"> ✓ What Are Distributed Applications? ✓ How Operations Manager Monitors Distributed Applications ✓ Viewing the Health of a Distributed Application in Operations Manager 	Application Performance Monitoring <ul style="list-style-type: none"> ✓ APM Application Types ✓ Deploying the APM Template ✓ Performance and Availability Monitoring Capabilities in APM ✓ Basic APM Configuration ✓ Configuring Application Performance Monitoring Advanced Monitoring in APM <ul style="list-style-type: none"> ✓ Advanced Server-Side Monitoring ✓ Best Practices in Configuring Server-Side Monitoring 	

Unterrichtseinheit		UE 07	246
<p>Advanced Monitoring in APM</p> <ul style="list-style-type: none"> ✓ Advanced Server-Side Monitoring ✓ Best Practices in Configuring Server-Side Monitoring ✓ Advanced Client-Side Monitoring ✓ Tuning Strategy When Configuring APM <p>Viewing Application Performance Data in Operations Manager</p> <ul style="list-style-type: none"> ✓ Application Monitoring Views in Operations Manager ✓ Application Advisor Console ✓ Application Diagnostics Console 	<p>Overview of Service Manager</p> <ul style="list-style-type: none"> ✓ Key Features of Service Manager ✓ Service Manager Architecture ✓ Integrating Service Manager with Other System Center Components ✓ Operating Service Manager <p>Configuring Security and User Roles</p> <ul style="list-style-type: none"> ✓ Configuring User Roles ✓ Configuring Run As Accounts ✓ Configuring Windows PowerShell Security 		

Unterrichtseinheit		UE 08	246
<p>Configuring Work Items</p> <ul style="list-style-type: none"> ✓ Configuring Change Requests ✓ Configuring Incidents ✓ Configuring Problems ✓ Configuring Release Records <p>Configuring Incident Queues</p> <ul style="list-style-type: none"> ✓ What Is an Incident Queue? ✓ Creating an Incident Queue <p>Configuring Service Offerings for a Cloud</p> <ul style="list-style-type: none"> ✓ Overview of the Service Manager Self-Service Portal ✓ Request Offerings ✓ Service Offerings ✓ Raising an Incident using the Self-Service Portal 	<p>Overview of System Center 2012 R2 Orchestrator</p> <ul style="list-style-type: none"> ✓ Overview of Orchestrator Components ✓ Overview of Orchestrator Integration Packs ✓ Overview of Azure Integration <p>Integrating Orchestrator with Operations Manager and Service Manager</p> <ul style="list-style-type: none"> ✓ Integrating Orchestrator with Operations Manager ✓ Integrating Orchestrator with Service Manager ✓ Activity Categories in Orchestrator ✓ Workflow Controls in Orchestrator ✓ Configuring Runbooks in Orchestrator ✓ Automating an IT process in the Cloud Using System Center Orchestrator 		

Unterrichtseinheit		UE 09	246
<p>Overview of Problem Management</p> <ul style="list-style-type: none"> ✓ Incidents vs. Problems ✓ What Is Problem Management? ✓ Creating Problem Records in Service Manager ✓ Linking Problems to Incidents ✓ Creating a Problem record in Service Manager <p>Creating Custom Rules</p> <ul style="list-style-type: none"> ✓ Types of Rules in Operations Manager ✓ Targeting Rules and Monitors at Application Components and Computers ✓ Generating Alerts 	<p>Installing and Configuring the System Center Cloud Services Process Pack</p> <ul style="list-style-type: none"> ✓ What Is the System Center Cloud Services Process Pack? ✓ Cloud Services Terminology ✓ Cloud Services User Roles ✓ Cloud Services Process Pack Prerequisites ✓ Installing the Cloud Services Process Pack ✓ Configuring the Cloud Services Process Pack ✓ Installing the System Center Cloud Services Process Pack <p>Cloud Services Configuration Items</p> <ul style="list-style-type: none"> ✓ System Center Cloud Services Process Pack Configuration Items ✓ System Center Cloud Services Process Pack VMM Configuration Items 		

Unterrichtseinheit		UE 10	246
<p>Cloud Services Request Items</p> <ul style="list-style-type: none"> ✓ Tenant Request Items ✓ Cloud Resources Request Items ✓ Virtual Machine and Service Request Items <p>Administer Windows Azure Pack</p> <ul style="list-style-type: none"> ✓ Administer User Accounts and Subscriptions ✓ Administer Plans and Add-Ons ✓ Manage Encrypted Data ✓ Integrate Service Reporting 	<p>Windows Azure Pack Key Concepts</p> <ul style="list-style-type: none"> ✓ Windows Azure Pack Components ✓ Roles, Authentication and Security ✓ IaaS and PaaS ✓ Portals ✓ Subscriptions and Plans ✓ Service Provider Framework in System Center 		

Unterrichtseinheit	UE 11	246
Windows Azure Pack Providers <ul style="list-style-type: none"> ✓ SQL or MySQL Databases ✓ Service Management Automation ✓ Virtual Machine Clouds ✓ WAP Gallery Items ✓ Windows Azure Pack Websites 	High Availability for a Cloud <ul style="list-style-type: none"> ✓ Configuring and Managing SQL AlwaysOn ✓ Configuring and Managing Hyper-V Replica ✓ Recovering From a Site Failure with Hyper-V Recovery Manager 	

Unterrichtseinheit	UE 12	246
Protecting Data in the Private Cloud <ul style="list-style-type: none"> ✓ Overview of Data Protection Manager ✓ Key Features of Data Protection Manager ✓ New Features in System Center 2012 R2 Data Protection Manager ✓ Data Types that Data Protection Manager Can Protect ✓ Deploying Agents ✓ Creating Protection Groups ✓ Verifying Protected Data ✓ Protecting Cloud data by Using System Center Data Protection Manager Recovering Data in the Private Cloud <ul style="list-style-type: none"> ✓ Automating Data Recovery ✓ Recovering Data Manually ✓ Recovery Processes That Users Can Perform 	Using Virtual Machine Manager to Keep the Cloud Infrastructure Up-to-Date <ul style="list-style-type: none"> ✓ Using Virtual Machine Manager to Keep the Cloud Infrastructure Up-to-Date ✓ Using Configuration Manager to keep Virtual Machines up-to-date ✓ Using System Center Advisor to Optimize Cloud infrastructure ✓ Using Pro-Tips to Optimize Cloud infrastructure Using Configuration Manager to keep Virtual Machines up-to-date <ul style="list-style-type: none"> ✓ Configuring a Software Update Point ✓ Synchronize Software Updates Using WSUS ✓ Configuring Software Classifications and Products to Synchronize ✓ Configuring Client and Group Policy Settings ✓ Deploying the SCCM Client using Software Updates ✓ Deploying Software Updates 	

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 – 15:00 Uhr sehr gerne zur Verfügung.

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