

# Hybrid Cloud and Datacenter Monitoring with Operations Management Suite (OMS) (MOC 10996)

ID MOC 10996 Preis 2.490,- € (exkl. MwSt.) Dauer 5 Tage

## Zielgruppe

This course is intended for service administrators, devops, and cloud architects who are interested in using Operations Management Suite to provide hybrid cloud and datacenter monitoring for their organization.

## Voraussetzungen

Before attending this course, students must have:

- 1 year's experience of System Center 2012 R2 or System Center 2016.
- Working knowledge of SQL Server 2012, 2014, or 2016.
- Working knowledge of Windows Server 2012 R2 and Windows Server 2016.

## Kursziele

After completing this course, students will be able to:

- Understand the components and features of System Center 2016.
- Upgrade System Center 2012 R2 to System Center 2016.
- Integrate System Center 2016 with Operations Management Suite.
- Configure base settings in Operations Management Suite.
- Configure and operate Automation and Control in Operations Management Suite.
- Configure and operate Insight and Analytics in Operations Management Suite.
- Configure and operate Protection and Recovery in Operations Management Suite.
- Configure and operate Security and Compliance in Operations Management Suite.

## Kursinhalt

This five-day course will provide students with the key knowledge required to deploy and configure Operations Management Suite. Using hands-on labs, students will learn the following:

- An overview of System Center 2016.
- How to upgrade to System Center 2016 from System Center 2012 R2.
- Integrate System Center 2016 with Operations Management Suite
- An overview of Operations Management Suite.
- Base configuration and operations of Operations Management Suite.
- Configuring Operations Management Suite Automation and Control.
- Operating Operations Management Suite Automation and Control.
- Configuring Operations Management Suite Insight and Analytics.
- Operating Operations Management Suite Insight and Analytics.
- Configuring Operations Management Suite Protection and Recovery.
- Operating Operations Management Suite Protection and Recovery.
- Configuring Operations Management Suite Security and Compliance.
- Operating Operations Management Suite Security and Compliance.

## Detaillierter Kursinhalt

### Module 1: Overview of System Center 2016

In this module, you will learn about the components that make up the System Center 2016 product including how they sit within it.

## Lessons

- Overview of Configuration Manager.
- Overview of Operations Manager.
- Overview of Orchestrator.
- Overview of Data Protection Manager.
- Overview of Virtual Machine Manager.
- Overview of Service Manager.

#### **Lab: Overview of System Center 2016**

- Configuration Manager Console.
- Operations Manager Console.
- Orchestrator Console.
- Data Protection Manager Console.
- Virtual Machine Manager Console.
- Service Manager Console.

After completing this module, students will be able to:

- Describe the key features and functionality of Configuration Manager.
- Describe the key features and functionality of Operations Manager.
- Describe the key features and functionality of Orchestrator.
- Describe the key features and functionality of Data Protection Manager.
- Describe the key features and functionality of Virtual Machine Manager.
- Describe the key features and functionality of Service Manager.

#### **Module 2: Upgrading to System Center 2016**

In this module, you will learn how the various System Center 2012 R2 components are upgraded to System Center 2016.

##### **Lessons**

- Upgrading Configuration Manager.
- Upgrading Operations Manager.
- Upgrading Orchestrator.
- Upgrading Data Protection Manager.
- Upgrading Virtual Machine Manager.
- Upgrading Service Manager.

#### **Lab: Upgrading to System Center 2016**

- Upgrading configuration Manager to the latest branch.
- Upgrading Orchestrator to System Center

2016.

- Upgrading Service Manager to System Center 2016.
- Upgrading Data Protection Manager to System Center 2016.
- Upgrading Operations Manager to System Center 2016.
- Upgrading Virtual Machine Manager to System Center 2016.

After completing this module, students will be able to:

- Upgrade Configuration Manager.
- Upgrade Orchestrator to System Center 2016.
- Upgrade Service Manager to System Center 2016.
- Upgrade Data Protection Manager to System Center 2016.
- Upgrade Operations Manager to System Center 2016.
- Upgrade Virtual Machine Manager to System Center 2016.

#### **Module 3: Integrating System Center 2016 with Operations Management Suite**

In this module, you will learn how integration between System Center 2016 Operations Manager and Operations Management Suite is configured.

##### **Lessons**

- Integrating OMS with Operations Manager

#### **Lab: Integrating Operations Manager with Operations Management Suite**

- Integrating Operations Manager with OMS
- Viewing Operations Manager data in OMS

After completing this module, students will be able to:

- Configure integration between Operations Manager and Operations Management Suite.

#### **Module 4: Introducing Operations Management Suite**

In this module, you will learn the key features and capabilities of Operations Management Suite. This information will prove invaluable throughout the rest of this course and will provide a foundation on which the rest of the course is built upon.

### Lessons

- Core Concepts of Managing a Hybrid Cloud.
- Overview of Operations Management Suite.
- Overview of Log Analytics.
- Overview of Solution Packs.
- Overview of OMS Licencing.
- Overview of Azure Tenants.
- Overview of Azure Subscriptions.

### Lab: Reviewing the OMS Portal

- Review the OMS Portal

After completing this module, students will be able to:

- Describe the core concepts relating to managing a hybrid cloud.
- Describe the key features and functionalities of the Operations Management Suite.
- Describe the key features and functionality of Log Analytics.
- Describe the key features and functionality of Solution Packs.
- Describe the key features and functionality of the OMS Licencing
- Describe the key features and functionality of Azure Tenants in the context of OMS.
- Describe the key features and functionality of Azure Subscriptions in the context of OMS.

### Module 5: Configuring Operations Management Suite

In this module, you will learn some of the key base configurations that take place in Operations Management Suite including data sources, computer groups and accounts.

### Lessons

- Configuring the OMS Workspace using the OMS Portal.
- Configuring an OMS Workspace through an

existing Azure subscription.

- Configure Connected Sources.
- Configure Data Sources.
- Configure Computer Groups.
- Configure Accounts.
- Configure Other Features.
- Configuring OMS PowerShell.

### Lab: Configuring the OMS Workspace

- Azure Identity Portal.
- Azure Trial Portal.
- OMS Portal.
- Azure Portal.
- OMS Log Analytics Queries.
- System Center 2016 Operations Manager Console.
- System Center 2016 Configuration Manager Console.

After completing this module, students will be able to:

- Configure an OMS Workspace using the OMS Portal.
- Configure an OMS Workspace using an existing Azure subscription.
- Configure Connected Sources.
- Configure Data Sources.
- Configure Computer Groups.
- Configure Accounts.
- Configure Other Features.
- Configure OMS with PowerShell.

### Module 6: Operating Operations Management Suite

In this module, you will learn about some of the key operations that are performed in Operations Manager Suite including log searches and using OMS Templates.

### Lessons

- Operating OMS Log Search.
- Analyzing OMS Search Data.
- Integrating with OMS.

### Lab: Operating OMS

- Configure an Azure Identity.
- Configure an Azure subscription.
- Configure an Azure workspace.

- Configure a connection to Azure.
- Configure a connection System Center Operations Manager 2016.
- Configure a connection System Center Configuration Manager 2016.
- Deploy and configure an OMS agent.
- Configure OMS user security.
- Configure OMS data retention.
- Connect to OMS using PowerShell.
- Connect to OMS using REST APIs.
- Review OMS data usage.

After completing this module, students will be able to:

- Operate Log Search.
- Operate View Designer.
- Operate PowerShell Module for OMS.

### **Module 7: Overview of Automation and Control**

In this module, you will how the key features of Automation and Control in Operations Management Suite. This includes features such as change tracking and update management.

#### **Lessons**

- Overview of OMS Change Tracking.
- Overview of OMS Update Management.

Lab: Reviewing Change Tracking and Update Management

- Change Tracking.
- Update Management.

After completing this module, students will be able to:

- Describe the purpose and functionality of the Change Tracking Solution Pack.
- Describe the purpose and functionality of the Update Management Solution Pack.

### **Module 8: Configuring Automation and Control**

In this module, you will learn how to configure Automation and Control in Operations Management Suite. This includes configuring the Change Tracking and Update Management Solution Packs.

#### **Lessons**

- Configuring the Change Tracking Solution Pack.
- Configuring the Update Management Solution Pack.

#### **Lab: Configuring Automation and Control**

- Configure the Change Tracking Solution Pack.
- Configure the Update Management Solution Pack.

After completing this module, students will be able to:

- Configure the Change Tracking Solution Pack.
- Configure the Update Management Solution Pack.

### **Module 9: Operating Automation and Control**

In this module, you will learn how to operate Automation and Control in Operations Management Suite.

#### **Lessons**

- Operate the Change Tracking Solution.
- Operate the Update Management Solution.

#### **Lab: Operating OMS**

- Operate the Change Tracking Solution Pack.
- Operate the Update Management Solution Pack.

After completing this module, students will be able to:

- Operate the Change Tracking Solution Pack.
- Operate the Update Management Solution Pack.

### **Module 10: Overview of Insight and Analytics**

In this module, you will how the key features of Insight and Analytics in Operations Management

Suite. This includes features such as network performance monitor and service maps.

### Lessons

- Overview of Network Performance Monitor.
- Overview of Service Maps.

### Lab: Reviewing Insight and Analytics

- Reviewing Network Performance Monitor
- Reviewing Service Maps

After completing this module, students will be able to:

- Describe the key features of the Network Performance Monitor Solution Pack.
- Describe the key features of the Service Maps Solution Pack.

### Module 11: Configuring Insight and Analytics

In this module, you will learn how to configure Insight and Analytics in Operations Management Suite. This includes configuring synthetic transactions and service maps for Windows and Linux.

### Lessons

- Configuring the Network Performance Monitor Solution Pack.
- Configuring the Service Map Solution Pack.

### Lab: Configuring the Insight and Analytics Solution Packs

- Configure OMS Network Performance Monitor Solution Pack.
- Configure Synthetic Transactions using ICMP.
- Configure Synthetic Transactions using TCP.
- Configure the Insight and Analytics Solution Pack.
- Install Service Map agent for Windows.
- Install Service Map agent for Linux.

After completing this module, students will be able to:

- Configure the Network Performance Solution Pack.
- Configure the Service Map Solution Pack.

### Module 12: Operating Insight and Analytics

In this module, you will learn how to perform operations in Operations Management Suite relating to Insight and Analytics. This includes the Network Performance Monitoring Solution Pack and the Service Map Solution Pack.

### Lessons

- Operating the Network Performance Monitoring Solution Pack.
- Operating the Service Map Solution Pack.

### Lab: Operating the Insight and Analytics Solution Packs

- Operate the Network Performance Monitoring Solution.
- Operate the Service Map Solution.

After completing this module, students will be able to:

- Operate the Network Performance Monitoring Solution Pack.
- Operate the Service Map Solution Pack.

### Module 13: Overview of Protection and Recovery

In this module, you will learn the key features in Operation Management Suite Protection and Recovery. This includes OMS Backup and OMS Azure Site Recovery.

### Lessons

- OMS Backup
- OMS Azure Site Recovery

### Lab: Reviewing Protection and Recovery in OMS

- Review OMS Backups
- Review OMS Azure Site Recovery

After completing this module, students will be able to:

- Describe the purpose and functionality of Operations Management Suite Protection and Recovery.
- Describe the key features of Operations Management Suite Protection and Recovery.

#### **Module 14: Configuring Protection and Recovery**

In this module, you will learn how to configure the key features in Operation Management Suite Protection and Recovery. This includes the OMS Backup Vault and OMS Backup Agent.

##### **Lessons**

- Configuring OMS Backup
- Configuring OMS Azure Site Recovery

#### **Lab: Configuring Protection and Recovery in OMS**

- Configure OMS Backup Solution Pack.
- Configure Backup Vault.
- Install the OMS Backup Agent.
- Configure Azure Site Recovery Solution Pack.
- Configure Azure Site Recovery Agent.

After completing this module, students will be able to:

- Configure OMS Backup.
- Configure OMS Azure Site Recovery.

#### **Module 15: Operating Protection and Recovery**

In this module, you will learn how to operate the key features in Operation Management Suite Protection and Recovery. This includes OMS Backup and OMS Azure Site Recovery.

##### **Lessons**

- Operate OMS Backup
- Operate OMS Azure Site Recovery

#### **Lab: Configuring and Operating Protection and**

#### **Recovery in OMS**

- Configure OMS Backups for protected servers.
- View OMS Backup status for protected servers.
- Configure Azure Site Recovery Backups for protected servers.
- View Azure Site Recovery Backup status for protected servers.

After completing this module, students will be able to:

- Operate OMS Backup.
- Operate OMS Azure Site Recovery.

#### **Module 16: Overview of Security and Compliance**

In this module, you will learn the key features in Operations Management Suite Security and Compliance. This includes Antimalware and the Security and Compliance Solution Pack.

##### **Lessons**

- Overview of OMS Antimalware Assessment.
- Overview of OMS Security and Auditing.

After completing this module, students will be able to:

- Describe the purpose and functionality of Operations Management Antimalware Assessment.
- Describe the key features of Operations Management Suite Security and Auditing.

#### **Module 17: Configuring Security and Compliance**

In this module, you will learn how to configure Security and Compliance in Operations Management Suite. This includes Antimalware assessments and the Security and Compliance Solution Pack.

##### **Lessons**

- Configuring the Security and Compliance

- Solution Pack.
- Configuring Antimalware Assessments.

After completing this module, students will be able to:

- Configure the Security and Compliance solution pack.
- Configure Antimalware Assessment.

### **Module 18: Operating Security and Compliance**

In this module, you will learn how to operate Security and Compliance in Operations Management Suite. This includes Operating the Security and Compliance and Antimalware Assessment Solutions in OMS.

#### **Lessons**

- Operating the Antimalware Assessment Solution.
- Operating the Security and Audit Solution.

#### **Lab: Operating the Security and Compliance Solution Pack**

- Add the Security and Compliance Solution Pack to Operations Management Suite.
- Review the insights available through the Antimalware Assessment solution pack.
- Review the insights available through the Security and Audit solution pack.
- Review data collection from Operations Manager Agents in Operations Management Suite.

After completing this module, students will be able to:

- Operating the Antimalware Assessment Solution.
- Operating the Security and Audit Solution.