

SCOM

Cloud and Datacenter Monitoring with System Center Operations Manager

Description:

This five-day course equips students with skills they need to deploy and configure System Center 2019 Operations Manager.

Students will be able to:

- Architect and implement a System Center 2019 Operations Manager Management Group.
- Upgrade and migrate from an existing Operations Manager 2007 R2 Management Group to System Center 2019 Operations Manager
- Understand the key elements of Management Packs including Object Discoveries, Rules, Monitors, Targeting and Run As Accounts and Run As Profiles. This includes authoring Management Packs.
- Configure fabric and application monitoring in System Center 2019 Operations Manager including both datacenter and cloud resources such as networking, storage and compute.
- Configure monitoring of .NET and Java based applications using Application Performance Monitoring.
- Configure end-to-end service monitoring including synthetic transactions and Distributed Application Diagrams.
- Configure Dashboards, Service Level Tracking Reporting and the SharePoint Web Part to enable visualization of key performance and availability metrics.
- Customize the Operations Manager Console to meet the needs of different application support teams.
- Integrate Operations Manager with other System Center 2012 R2 components and extend monitoring to include key business processes and procedures.
- Troubleshoot an Operations Manager Management Group and perform disaster recovery procedures such as database and management server recovery.
- Use new features in System Center 2019 including: Integration with System Center Advisor, Integration with Team Foundation Server, IntelliTrace, and Managing Windows Azure.

Course requirements:

- Experience with administering Microsoft Windows Server
- Basic knowledge of Microsoft SQL Server

This course is intended for:

Course is primarily recommended to cloud and datacenter administrators to whom System Center 2019 Operations Manager is new, and who are responsible for deploying, configuring, and operating it in their cloud or datacenter. Cloud and datacenter administrators who are already acquainted with Operations Manager and want to upgrade their skills to include the new features of System Center 2019 Operations Manager, are also welcome.

Literature:

All participants will receive OKsystem study materials.

Hardware:

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

Syllabus:

Module 1: Overview and Architecture

- Lesson: Overview of Operations Manager
- Lesson: Overview of Key Features in Operations Manager
- Lesson: Overview of Core Components and Topology
- Lesson: Addressing Cloud and Datacenter Issues by Using Operations Manager
- Lesson: Planning and Sizing System Center 2019 Operations Manager
- Lab: Using the System Center 2012 Operations Manager Sizing Helper Tool

Module 2: Deploying a new System Center 2019 Operations Manager Management Group

- Lesson: Overview of Security Considerations
- Lesson: Designing the Management Group
- Lesson: Installing System Center 2019 Operations Manager
- Lesson: Configuring Operations Manager Default Settings
- Lesson: Deploying the Operations Manager Agent
- Lesson: Configuring Agentless Exception Monitoring (AEM)
- Lesson: Configuring Audit Collection Services
- Lab: Installing System Center 2019 Operations Manager and Deploying Agents

Module 3: Upgrading Operations Manager

- Lesson: Overview of Migration and Upgrade Planning
- Lesson: Upgrading to System Center 2019 Operations Manager
- Lesson: Migrating to System Center 2019 Operations Manager
- Lab: Upgrading to System Center 2019 Operations Manager

Module 4: Configuring Fabric and Application Monitoring

- Lesson: Introduction to Management Packs
- Lesson: Configuring Network Device Monitoring
- Lesson: Configuring Fabric Monitoring
- Lesson: Configuring Application Monitoring
- Lab: Configuring Application and Fabric Monitoring

Module 5: Application Performance Monitoring

- Lesson: Application Performance Monitoring
- Lesson: Using IntelliTrace
- Lesson: Team Foundation Server Integration
- Lab: Monitoring .NET Framework Applications

Module 6: End to End Service Monitoring

- Lesson: Management Pack Templates

- Lesson: Distributed Application Models
- Lesson: Global Service Monitor
- Lesson: Real-time Visio Dashboards
- Lab: Configuring End to End Service Monitoring

Module 7: Scorecards, Dashboards and Reporting

- Lesson: Configuring and Managing Reporting in Operations Manager
- Lesson: Configuring Service Level Tracking
- Lesson: Configuring the Operations Manager SharePoint WebPart
- Lesson: Configuring Dashboards and Widgets
- Lesson: Creating Custom Dashboards
- Lab: Configuring Reporting, Dashboards and Service Level Tracking

Module 8: Configuring and Customizing the Console

- Lesson: Security, Scoping and User Roles
- Lesson: Creating Custom Views and Alert Resolution States
- Lesson: Configuring Notification Subscriptions
- Lesson: Creating Diagnostic and Recovery Tasks
- Lab: Customizing the Operations Console

Module 9: Management Pack Authoring

- Lesson: Management Packs Authoring Concepts
- Lesson: Authoring Management Packs by using the Operations Console
- Lesson: Authoring Management Packs by using the Visual Studio Authoring Extensions
- Lab: Authoring Management Packs

Module 10: Integrating Operations Manager with Other System Center Components

- Lesson: Service Manager Integration
- Lesson: Data Protection Manager Integration
- Lesson: Orchestrator Integration
- Lab: Configuring System Center Integration

Module 11: Troubleshooting, Tuning and Disaster Recovery

- Lesson: Troubleshooting Operations Manager Core Components
- Lesson: Tuning Management Packs
- Lesson: Configuring SQL AlwaysOn for Operations Manager
- Lesson: Configuring Data Retention in Operations Manager
- Lesson: Disaster Recovery in Operations Manager
- Lab: Troubleshooting Operations Manager

Contact us

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