
Mastering System Center 2012 Operations Manager (Adv.)

Varighed: 3 Days Kursus Kode: MSCOM12

Beskrivelse:

This course is intended for Enterprise Systems Engineers, Administrators, System Integrators and Management Pack Developers who need to implement Multi Layered Service Monitoring using System Center Operations Manager 2012 (SCOM). The class is continuously updated to cover the latest release of the product, as well to include new tools and SDK's.

This course syllabus should be used to determine whether the course is appropriate for you, based on your current skills and technical training needs.

Agenda:

- After completing this course, students will be able to:
 - Describe and understand the logical architecture of an SCOM infrastructure
 - Configuring a distributed SCOM installation and defining resource pools
 - Implement Failover on all levels with NLB and Always On
 - Deciding the best Authoring solution and using the correct type of monitoringobject
 - Defining and using different tools to Create Management Packs
 - Going through all Monitoring objects with real world samples, Rules, Monitors and Self Tuning Thresholds – and now with Baselining
 - Articulate the functions of the components and services in the System Center suite and Working with SCOM in conjunction with other System Center products
 - Digging into the Data warehouse database and using the aggregated tables for reporting
 - Troubleshooting issues with SCOM components and Agent Monitoring
 - Find the bottlenecks in your implementation
 - Design and creating end-to-end monitoring of Services – Multi layered application design
 - Manipulate your Alerts with connectors, powershell and the Microsoft Audit Connector
 - Creating and using your own XML connector to communicate with external Helpdesk systems
 - Using Powershell to create scripts and get information about the SCOM environment
 - Using SNMP Trap, Get og Set mod dit netværksudstyr
 - Create your own Widget to be used in a Dashboard
-

Forudsætninger:

Before attending this course, students must have:

- Experience with Windows Server 2008 R2/2012
 - Good understanding of Active Directory
 - Good understanding of Network communication
 - Understanding of Operations Manager corresponding to Mastering Operations Manager 2012 or good working knowledge of SCOM 2012
-

Lessons

Operations Manager in a distributed environment

- Installing the first Management Server by a script
- Recovering a crashed SCOM Server
- Implement High Availability on The Database level
- Enabling Database Failover for you Management Servers

Installing Agents

- Installing Agents with a script
- Create an AD Directory Based Agent Assignment Account

Advanced Configuring

- Management Server Configuration
- Console Configuration
- HouseCleaning

Internal Stuff

- Find bottlenecks by checking your Discoveries and Events in the DB
- Database Maintenance
- Builtin Rules:
 - Rule: Optimize Indexes
 - Rule: Partitioning and Grooming
 - Rule: Alert Auto Resolve Execute All
 - Rule: Detect and Fix Object Space Inconsistencies
 - Rule: Discovery Data Grooming
 - Rule: Maintenance Mode
 - Rule: Transfer Events
- Optimizing SCOM for more agent than 1000

Manipulating Alerts and implementing Intelligence

- Update Alerts with Powershell
- Update a bunch of alerts with a PS script
- Recovery Task
- Adding Tasks (with overrides)
- Adding Tasks with PowerShell and \$ID\$
- The Official Microsoft Alert Update feature
- Coretech XML Connector

Notification

- Create a Command Notification

Advanced Reporting

- Create a MaintenanceMode Report with historical data

Linux Agents

- Monitor and scripts for Linux

SNMP Devices

- Trap, Get and Set OID the right way

Management Packs

- Structure of a Management Pack
- Management Pack Files
- Management Pack Elements
- Compatibility with Operations Manager 2007
- Types of Management Packs
- Management Pack Schema
- Characteristics of Sealed Management Pack Files
- Enable the management pack to be referenced by other management packs
- When to Seal a Management Pack File
- Targets and Objects
- Understanding Classes and Objects
- Object, Class and Base Classes
- Hosting Classes
- Work with classes in the Operations console
- Selecting a target
- Where the monitor or rule will run
- Workflow targeted at a single instance
- Workflow targeted at multiple instances
- What properties will be available for the expression and the alert description
- Viewing Classes and Objects
- Targeting a group
- To create a monitor or rule that runs on agents in a group
- Selecting a group for a monitoring wizard
- Management Pack Templates
- Object Templates (Synthetic Transactions/E2E)

Attributes

- Creating custom attributes
- To create a new attribute using the registry
- To create a new attribute using WMI

Authoring Rules and Monitors

- A Large LAB with Samples of ALL Monitors and Rules

Creating a MPs with the Authoring Console

Seal and Unseal a Management Pack

- Unseal a management Pack

Check your management pack with MP Tuner and MP Viewer

Creating MPs with Visual Studio

Creating a Management Pack with Visio Management Pack Designer

Using Visio to create a complete Management Pack with monitoring capabilities

User Interfaces – Widgets - Creating a Custom Widget using Visual Studio

- Open the Solution and inspect the user control code
- Create Test Application project
- Create Management Pack Project
- Implement control as a View

- To create a class and discovery in the Authoring Console
- Monitor the windows application (Create a Monitor)
- Monitor the windows application (Create an event rule)
- Create a task to control the service
- Create views to view the health of the application

Additional Information:

An understanding of the System Center Suite is desirable, but not needed.

Experience with earlier version of SCOM or other Monitoring Tools Virtualization Technologies: Hyper-V and Windows Server 2012 Knowledge of general Script and PowerShell But you will get real life samples of every area, so you can do the Labs at home after training

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

training@globalknowledge.dk

www.globalknowledge.dk

Global Knowledge, Stamholmen 110, 2650 Hvidovre