

Operations Manager 2007 R2 Bootcamp

Number of Days: Four (4)

Prerequisites:

Before attending this course, students should have:

- MCSA certification, or equivalent knowledge

The course materials, lectures, and lab exercises are in English. To benefit fully from our instruction, students need an understanding of the English language and completion of the prerequisites.

Instructors:

The instructors that deliver this course are experienced, enterprise consultants who have experience in the deployment of Operations Manager. All of our instructors have real-world expertise and are both accomplished consultants and excellent presenters that make the delivery interesting and provide insight into real world issues that they have had to provide solutions to.

Description:

This four-day course is a mix of in-depth instructor led training and hands-on labs where you will learn about the new features, server roles and components included in Operations Manager 2007 R2.

This class begins with an introduction to Operations Manager 2007 R2 followed by a detailed architectural discussion that explains how to design your Operations Manager 2007 R2 environment details how all of the communication occurs between components. Next students will walk through an advanced installation of Operations Manager 2007 R2 and learn how to install the database, Root Management Server, additional Management servers, a gateway server and run through the deployment of agents. (both Windows and non-Windows) Once the setup is complete, the students will perform other critical post installation configurations. Attendees will also learn about the issues involved in migrating from SCOM 2007 SP1 to R2. The discovery of non-Windows devices and operating systems is also explored as are overrides, diagnostics and recoveries, notification configuration, and the Operations Manager Shell.

With a SCOM R2 environment built, we will then focus on all of the components that make up a Management Pack followed by how to configure the Microsoft Management Packs to reduce alert noise. In addition to learning how to create attributes, rules, discoveries, monitors, tasks and views, you will also learn how to configure the following Microsoft Management packs;

- Windows Base Operating System Management Packs (Windows Server 2000/2003/2008)

- Active Directory Management Packs
- Exchange 2007 Management Packs
- SQL Management Packs
- Solution Accelerators and Third Party Extensions

This class begins with a brief introduction to Operations Manager 2007 R2 and then dives into all of the components that are included in a management pack.

This class consists of the following sessions:

Session 1: Overview of System Center Operations Manager 2007 R2

Session 2: Architecting Operations Manager 2007 R2

Session 3: Installing Operations Manager 2007 R2

Session 4: Gateway Server Role

Session 5: Security

Session 6: Agent Deployment

Session 7: Health Explorer

Session 8: Overrides, Diagnostics & Recoveries, and Notifications

Session 9: Operations Manager Shell Overview

Session 10: Management Pack Overview

Session 11: Management Pack Components

Session 12: Reporting

Session 13: Windows Operating System

Session 14: Active Directory Management Pack

Session 15: Exchange 2007 Management Pack

Session 16: Monitoring SQL Server

Session 17: Distributed Applications

Session 18: Solution Accelerators and Third Party Extension

Session 1: Overview of System Center Operations Manager 2007 R2

After completing this session students will be able to:

- Describe the features in System Center Operations Manager 2007 R2
- Navigate through the Operations Console

Session 2: Architecting Operations Manager 2007 R2

After completing this session students will be able to:

- Describe the core server roles in Operations Manager 2007 R2
- Design a basic and advanced architecture
- Understand the sizing and planning tools available

Session 3: Installing Operations Manager 2007 R2

After completing this session students will be able to:

- Install Operations Manager 2007 R2
- Install and addition Management Server
- Import Management Packs
- Understand and perform the necessary post installation tasks
- Explain and define the configuration of global settings
- Import updated MPs

Session 4: Gateway Server Role

After completing this session students will be able to:

- Understand the Public Key Infrastructure (PKI) prerequisites
- Describe the Gateway server role
- Install and Configure a Gateway server

Session 5: Security

After completing this session students will:

- Understand role based security
- Be able to create a new user role and restrict the view in the Operations Console to specific groups
- Understand the minimum requirements for the different service accounts and the action account
- Create and configure Run As accounts and Run As Profiles for cross platform agent discovery

Session 6: Agent Deployment

After completing this session students will be able to:

- Deploy an agent to a Windows server
- Deploy an agent to a non-Windows server
- Configure SNMP for device discovery
- Test SNMP with wbemtest
- Perform a network discovery
- Deploy the new cross platform agent to a linux server

Session 7: Health Explorer

After completing this session students will be able to:

- Understand and work with Health Explorer
- Work with Health Explorer in the Web console

Session 8: Overrides, Diagnostics & Recoveries, and Notifications

After completing this session students will be able to:

- Create overrides based on targeting best practices
- Create a diagnostic and recovery to automate corrective actions
- Define notification recipients
- Define notification subscriptions
- Subscribe to a notification from an alert

Session 9: Operations Manager Shell Overview

After completing this session students will be able to:

- Run some basic Operations Manager Shell commands and become with extracting information from the Operations Manager Shell

Session 10: Overview of Management Pack Components

After completing this session students will be able to:

- Describe the components included in a Management Pack
- Describe and use the Management Pack Templates
- Understand overrides, diagnostics and recoveries
- Understand the health model
- Describe the difference between rules and monitors
- Understand targeting best practices

Session 11: Management Pack Components

After completing this session students will be able to create their own management packs with a knowledge of the different elements that can be included in a Management Pack including:

- Create a attribute
- Search for and create overrides for object discovery
- Understand object discovery and the overrideable parameters
- Create rules and monitors
- Modify existing rules and monitors through the use of overrides
- Create Tasks
- Create Views

Session 12: Reporting

After completing this session students will be able to:

- Describe the different reports included in the various Management Packs
- Run an alert detail report, availability report and other reports

Session 13: Windows Server Operating System

After completing this session students will be able to:

- Describe the features in the Windows Operating System MP
- Import and Configure the Windows Operating System MP
- Perform post import configuration to reduce alert noise and optimize to a customer's requirements

Session 14: Active Directory Management Pack

After completing this session students will be able to:

- Describe the features in the ADMP
- Import and Configure the ADMP
- Perform post import configuration to reduce alert noise and optimize to a customer's requirements

Session 15: Exchange 2007 Management Pack

After completing this session students will be able to:

- Describe the features in the Exchange Server 2007 MP
- Import and Configure the Exchange Server 2007 MP
- Perform post import configuration to reduce alert noise and optimize to a customer's requirements

Session 16: Monitoring SQL Server

After completing this session students will be able to:

- Describe the features in the SQL Server 2005 MP
- Import and Configure the SQL Server 2005 MP
- Perform post import configuration to reduce alert noise and optimize to a customer's requirements

Session 17: Distributed Applications

After completing this session students will be able to:

- Build a distributed application

Session 18: Solution Accelerators and Third Party Extensions

After completing this session students will be able to:

- Understand what's available in terms of Solution Accelerators from Microsoft
- Understand what's available in terms of Third Party extensions for non-Windows and non-Microsoft application monitoring