

# Cloud & Datacenter Monitoring with System Center Operations Manager

2021

5 jours

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**Durée:**

5 jours

**Langue**

Anglais

**Formations dirigées par un instructeur****Objectif**

This course equips students with the skills they require to deploy and configure System Center 2012 R2 Operations Manager. Using hands-on labs, students learn the following:

How to architect and implement a System Center 2012 R2 Operations Manager Management Group.

How to upgrade and migrate from an existing Operations Manager 2007 R2 Management Group to System Center 2012 Operations Manager, System Center 2012 SP1 Operations Manager and System Center 2012 R2 Operations Manager.

How to troubleshoot an Operations Manager Management Group and perform disaster recovery procedures such as database and management server recovery.

**Profil population cible**

The primary audience for this course is cloud and datacenter administrators who are new to System Center 2012 R2 Operations Manager and are responsible for deploying, configuring and operating it in their cloud or datacenter. The secondary audience for this course is cloud and datacenter administrators who are already familiar with Operations Manager and want to upgrade their skills to include the new features found in System Center 2012 Operations Manager,

**Examen de certification**

Préparation pour examen : N/A

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## Prérequis :

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

One or more years' experience in the design and implementation of System Center Operations 2007 R2 or System Center 2012 Operations Manager is desired.

Working knowledge of Windows Server 2008 R2 and Windows Server 2012 R2.

Working knowledge of SQL Server 2008 R2 and SQL Server 2012.

## Plan du cours

### Module 1

#### Overview and Architecture

Before implementing Operations Manager it is important you understand the key features and functionality that it provides. This will help you understand how Operations Manager can be used to solve many common problems that arise in the cloud or datacenter such as ensuring service levels are maintained, and critical line-of-business applications are available and performing at optimum levels.

#### Leçons

After completing this module, students will be able to:

Describe the purpose and functionality of System Center 2012 R2 Operations Manager.

Describe the key features of System Center 2012 R2 Operations Manager.

Describe the System Center 2012 R2 Operations Manager components and topology.

Describe the key cloud and datacenter problems that Operations Manager addresses.

Describe how to design and size an Operations Manager Management Group.

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## Module 2

### Deploying a new System Center 2012 R2 Operations Manager Management Group

When planning a new deployment of Operations Manager, as well as the hardware and sizing requirements that you may have, you should also consider other factors. Factors including the security accounts that Operations Manager requires and the design of the Management Group should also be considered. For example, you may have a requirement to install two separate Management Groups in order to scale Operations Manager to meet your monitoring requirements.

#### Leçons

After completing this module, students will be able to:

- Know the security considerations when deploying Operations Manager.
- Know the Management Group design considerations.
- Install System Center 2012 R2 Operations Manager.
- Configure common settings in System Center 2012 R2 Operations Manager.

## Module 3

### Upgrading Operations Manager

If you have already made investments in Operations Manager 2007 R2 it is important that you understand the upgrade path from Operations Manager 2007 R2 to System Center 2012 R2 Operations Manager.

#### Leçons

After completing this module, students will be able to:

- Plan an upgrade or migration to System Center 2012 R2 Operations Manager.
- Upgrade from Operations Manager 2007 R2 to System Center 2012 R2 Operations Manager.
- Migrate to System Center 2012 R2 Operations Manager.

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## Module 4

### Configuring Fabric and Application Monitoring

With Operations Manager deployed and agents installed on the computers hosting the applications and services you need to monitor you must now install Management Packs to start monitoring them. Before you install Management Packs you should understand Management Pack concepts including all elements of a Management Pack.

#### Leçons

- After completing this module, students will be able to:
- Describe Management Packs fundamentals in Operations Manager.
- Configure Network Device Monitoring in Operations Manager.
- Configure Fabric monitoring in Operations Manager.
- Configure Application monitoring in Operations Manager.

## Module 5

### Application Performance Monitoring

Most organizations utilize the Microsoft .NET Framework to build custom applications such as for intranet web sites. As there will not be an available Management Pack for these custom applications you should understand how Application Performance Monitoring (APM) is configured in Operations Manager. APM provides extensive monitoring for .NET and Java based applications that include both Server and Client side monitoring.

#### Leçons

- After completing this module, students will be able to:
- Configure Application Performance Monitoring.
- Configure IntelliTrace with APM to debug .NET applications.
- Integrate Operations Manager with Team Foundation Server.

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## Module 6

### End to End Service Monitoring

When monitoring key line of business applications, monitoring should be performed from both a data center perspective and an end-user perspective. In this module you will learn how you can create synthetic transactions to measure end-user performance.

#### Leçons

After completing this module, students will be able to:

- Configure Management Packs Templates.
- Create Distributed Application Models.
- Use Global Service Monitor.
- Create Real-time Visio Dashboards.

## Module 7

### Scorecards, Dashboards and Reporting

Visualizing service and application health in Operations Manager is a key feature that enables at-a-glance views to be quickly and easily created. These views (or dashboards) can instantly display performance and availability for one or more applications in a single pane.

#### Leçons

After completing this module, students will be able to:

- Configure and Manage Reporting in Operations Manager.
- Configure Service Level Tracking.
- Configure Operations Manager SharePoint Web Part.
- Configure Dashboards and Widgets.
- Create Custom Dashboards.

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## Module 8

### Configuring and Customizing the Console

Application support teams that use Operations Manager can do so either via a locally installed console or through the Web Console. Typically within an application support team there are a number of roles that require different levels of permissions when using the Operations Console. These range from read-only users through to advanced operators.

#### Leçons

- After completing this module, students will be able to:
- Configure Security, Scoping and User Roles.
- Create Custom Views and Alert Resolution States.
- Configure Notification Subscriptions.
- Create Diagnostic and Recovery Tasks.

## Module 9

### Management Pack Authoring

For common applications such as Microsoft SQL Server and Microsoft Exchange Server there is already a fully developed Management Pack available. You can extend the default monitoring contained in Operations Manager by creating rules, monitors and groups within the Operators console.

#### Leçons

- After completing this module, students will be able to:
- Describe Management Pack Authoring Concepts.
- Author a Management Pack by using the Operations Console.
- Author a Management Pack by using Visual Studio Authoring Extensions.

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## Module 10

### Integrating Operations Manager with Other System Center Components

System Center 2012 R2 consists of several components that provide complete management of the IT environment. This includes the server and desktop infrastructure and the networking infrastructure that binds them. You can also manage client devices by using System Center 2012 R2.

#### Leçons

After completing this module, students will be able to:

Describe System Center 2012 R2 Service Manager and configure integration with Operations Manager

Describe System Center 2012 R2 Data Protection Manager and configure integration with Operations Manager.

Describe System Center 2012 R2 Orchestrator and configure integration with Operations Manager.

## Module 11

### Troubleshooting, Tuning and Disaster Recovery

Your monitoring solution must be highly available to ensure your key line-of-business applications are available and performing at optimum levels at all times. Additionally, ensuring your system is fully optimized helps prevent outages and deterioration of performance of the monitoring solution. In this module you will learn how to optimize the data warehouse to ensure the correct volume of data is kept.

#### Leçons

After completing this module, students will be able to:

Troubleshoot Operations Manager core components.

Tune Management Packs.

Configure SQL AlwaysOn for Operations Manager.

Configure data retention for the Data Warehouse database in Operations Manager.

Perform disaster recovery in Operations Manager.

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