

# 70-246: Monitoring and Operating a Private Cloud with System Center 2012

## **Module 01 - System Center 2012**

Lesson 1: What is System Center 2012?

Suite of Components  
Operations Manager  
Configuration Manager  
Service Manager  
Orchestrator  
Data Protection Manager  
Virtual Machine Manager  
Putting it All Together  
Module 01 Review

## **Module 02 - Introducing the Cloud**

Lesson 1: Discussion of Cloud Computing  
How Cloud Computing Came About  
Differences Between Private and Public Clouds  
Models  
Implementing the Private Cloud  
Using System Center 2012 with the Private Cloud  
Lesson 2: Important Requirements  
Requirements  
Onboarding and Services  
Administrative Functions  
Lesson 3: Working with System Center and the Infrastructure  
Using VMM for the Cloud Design  
Cloud Management with the VMM  
Orchestrator  
Lesson 4: Maintaining the Cloud Health  
How to Monitor Health and Performance  
What Are the Key Indicators?  
Lesson 5: How Components are Integrated  
Why Integrate SC Components?  
How to Make Sure All is Working  
Lesson 6: Are You in Compliance?  
Compliance  
Remediation  
Demo - Verifying the Private Cloud Infrastructure  
Demo - Verifying System Center Components  
Module 02 Review

## **Module 03 - Working with the Business Cloud**

Lesson 1: Examining SC 2012 VMM  
Introducing VMM  
Features of VMM

Securing VMM  
Lesson 2: Working with VMs with the VMM  
Looking at the Fabric  
VMs  
Jobs  
Working with Settings  
Lesson 3: Creating Clouds for Business  
The Business Unit  
Resources  
Capacity  
Capabilities  
Demo - Configuring and Optimizing Business Unit Clouds  
Module 03 Review

## **Module 04 - Cloud Services**

Lesson 1: Looking at Service Templates and VMM Profiles  
What Constitutes the Service Template  
Planning and Preparation of the Service Template  
Guest OS Profiles  
Hardware Profiles  
Application Profiles  
SQL Server Profile  
Lesson 2: Web Deploy Packages  
Describing Web Deploy  
How to Install and Create a Package  
Connecting Web Deploy to an App Profile  
Lesson 3: Server App-V Introduction  
Understanding the Server App-V  
How to Sequence an Application  
Lesson 4: The Data of the N-Tier Application  
Describing Data-Tier Application Packages  
Using DAC Packages with VMM  
Using DAC Packages with VMM (Continued)  
Demo - Importing and Deploying the Stock Trader Application  
Module 04 Review

## **Module 05 - Monitoring**

Lesson 1: Overview of Operations Manager  
What is Operations Manager?  
User Roles to Secure Operations Manager  
Operations Manager Architecture  
Deploying Agents Manually and Automatically  
Active Directory's Involvement with Deploying Agents  
Lesson 2: Customize the Monitoring Operations  
What is a Management Pack?  
Monitoring Cloud Components  
Lesson 3: Monitoring Application Performance  
Types of Applications

Using the APM Template  
How APM Monitors Performance and Reliability  
Basic Configuration of APM  
Lesson 4: Advanced Monitoring  
Server Side Monitoring  
Server Side Best Practices  
Client Side Monitoring  
How to Fine Tune APM's Configuration  
Lesson 5: Using Operations Manager for Applications  
Applications Monitoring with Operations Manager  
What is the Application Advisor?  
Application Diagnostics  
Lesson 6: Using Operations Manager for the Network  
Operations Manager Support Network Devices and Extended Monitoring Capabilities  
What Security Issues Should You Think of When Monitoring the Network Infrastructure?  
How to Configure Network Device Monitoring  
Lesson 7: Using Operations Manager for Distributed Applications  
Understanding Distributed Applications  
Monitoring Distributed Applications  
Viewing Distributed Application Health  
Demo - Deploying an Agent  
Demo - Configuration for Custom Monitoring  
Demo - Configuring Basic Monitoring and Application Performance  
Module 05 Review

## **Module 06 - Automating Responses**

Lesson 1: Looking at Orchestrator 2012  
Orchestrator Components  
Orchestrator Integration Packs  
Lesson 2: Putting Orchestrator, Operations Manager, and Service Manager Together  
Integration with Operations Manager  
Integration with Service Manager  
Activity Collections  
Workflow Controls  
Configuring Runbook  
Demo - Operating and Extending Service Management  
Demo - Prerequisites for Automating Self-Service Provisioning  
Module 06 Review

## **Module 07 - Managing Problems in the Private Cloud**

Lesson 1: What is Problem Management  
Comparing Incidents to Problems  
Describing Problem Management  
Creating Problem Records with Service Manager  
How to Link Problems to Incidents  
Lesson 2: Using Custom Rules  
Types of Rules  
Targeting Rules and Monitors to Applications and Computers

Generating Alerts  
Demo - Problem Management in the Private Cloud  
Module 07 Review

## **Module 08 - Service Management in the Private Cloud**

Lesson 1: Service Manager Introduction  
Introduction to Service Manager  
Architecture  
Integration with Other SC Components  
Operating Service Manager  
Lesson 2: Security Settings  
User Roles  
Run As...  
PowerShell Security  
Lesson 3: Work Items  
Incidents  
Problems  
Change Requests  
Release Records  
Lesson 4: Incident Queues and Service Offerings  
What is an Incident Queue?  
How to Make an Incident Queue  
Self-Service Portal  
Request Offerings  
Service Offerings  
Demo - Configuring the Incident Template  
Module 08 Review

## **Module 09 - Cloud Protection, Recovery, and Compliance**

Lesson 1: Protecting and Recovering Data for the Private Cloud  
What is the DPM?  
Deploying Agents  
How to Make a Protection Group  
Verifying Protected Data  
Lesson 2: Data Recovery  
Automating Data Recovery  
How to Recover Data Manually  
What Can a User Recover?  
Lesson 3: Overview of the Process Pack for IT GRC  
Compliance Management Processes  
Overview of the Process Pack for IT GRC  
Lesson 4: Installing the Process Pack for IT GRC  
Preparing and Configuring the Environment for the Process for IT GRC  
Installing and Configuring the Process Pack for IT GRC  
Lesson 5: Implementing an IT GRC Control Management Program  
Creating the Control Management Program  
How to Administer the Control Management Program  
Lesson 6: How to Maintain Compliance Through VMM Security Baselines with System Center Advisor

VMM Support of the Software Update Compliance  
System Center Advisor  
Demo - Configuring Manual Protection  
Module 09 Review

## **Module 10 - SLAs, Dashboards and Widgets**

Lesson 1: Configuring and Deploying Widgets and Dashboards  
Configuring Views  
Host to Configure and Publish a Dashboard  
Lesson 2: Real-Time State Using Visio  
Visio Framework  
Visio Diagrams  
Putting Visio Diagrams on SharePoint  
Lesson 3: System Center Analytics  
What is SC Analytics?  
Discussion of the SC SM Data Warehouse  
Introducing SC SM Manager Cubes  
Discussion of the SC OM Data Warehouse  
Lesson 4: Service Level Tracking  
Describing the Process  
SLT  
SLT Reporting  
Using SharePoint  
Lesson 5: Viewing SSRS and Excel to View Data  
Standard Reports  
Using Excel  
Service Manager Analysis Library  
Lesson 6: PerformancePoint  
Architecture  
Dashboard Designer  
Demo - Configuring Service Level Tracking  
Module 10 Review

## **Module 11 - Cleaning Up System Center Databases**

Lesson 1: Service Manager Groom Settings  
Saving Data in the Service Manager Database  
Working with the Service Manager Data Warehouse Groom Settings  
Operations Manager Groom Settings  
Lesson 2: View and Purge Orchestrator Runbook Logs  
View Orchestrator Logs  
Purging Orchestrator Logs  
Demo - Creating an IT GRC Control Management Program  
Module 11 Review  
Course Closure

**Total Duration: 10h 16m**