

## Monitoring and Operating a Private Cloud

**Duration:** 5 Days

**Price:** \$2795 *\*California residents and government employees call for pricing.*

**Discounts:** We offer multiple discount options. [Click here](#) for more info.

**Delivery Options:** Attend face-to-face in the classroom or [remote-live attendance](#).

### Students Will Learn

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <ul style="list-style-type: none"><li>■ Describing the Cloud Model</li><li>■ Configuring and optimizing a Private Cloud</li><li>■ Deploying Cloud Services</li><li>■ Monitoring Cloud Services</li><li>■ Configuring Application Performance Monitoring in a Cloud Environment</li><li>■ Operating and extending Service Management in a Cloud Environment</li><li>■ Automating Incident Creation, Remediation and Change Requests in a</li></ul> | <ul style="list-style-type: none"><li>Cloud Environment</li><li>■ Performing Problem Management in a Cloud Environment</li><li>■ Operating a Self-Service, Multi-Tenant Cloud with Windows Azure Pack</li><li>■ Configuring High Availability, Protection and Recovery in a Cloud Environment</li><li>■ Optimizing the Cloud Infrastructure</li><li>■ Configuring SLAs, Dashboards and Widgets in a Cloud Environment</li></ul> |
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### Course Description

This course focuses on how to monitor and operate a cloud with Microsoft System Center 2012 R2. Topics include how to manage and administer a cloud environment; monitor key infrastructure elements and applications that run within a cloud; an overview of Virtual Machine Manager; using Operations Manager to monitor the services deployed in a cloud; core features of Service Manager; using Orchestrator; integrating of Microsoft System Center 2012 R2 Service Manager; managing a highly available cloud Infrastructure using SQL Server 2012 Always-On, Hyper-V Replica and Azure Site Recovery and how Configuration Manager can be used to provide update management for Virtual Machines.

### Course Prerequisites

Students should have working knowledge of Windows Server 2012, Hyper-V, AD DS, System Center, SharePoint, Windows Azure, cloud and data center management processes and networking.

### Course Overview

## **Introduction to the Cloud Model**

- Overview of the Cloud Computing Model
- Requirements for a Private Cloud
- Requirements for a Public or Hybrid Cloud
- Operating a Hybrid Cloud Infrastructure with System Center
- Maintaining the Health of a Cloud
- Integrating System Center Components

## **Deploying Cloud Services**

- Overview of Service Templates
- Creating VMM Machine Profiles
- Creating Web Deploy Packages
- Sequencing Applications by Using Server App-V
- Creating Data-Tier Application Packages
- Deploying Services through App Controller

## **Configuring Application Performance Monitoring**

- Application Performance Monitoring
- Configuring Advanced Monitoring in APM
- Viewing Application Performance Data in Operations Manager

## **Automating Incident Creation, Remediation, and Change Requests**

- Overview of System Center 2012 R2 Orchestrator
- Integrating Orchestrator with Operations Manager and Service Manager

## **Operating a Self Service, Multi-Tenant Cloud with Windows Azure Pack**

- Windows Azure Pack Key Concepts
- Provision and Configure Services in the Windows Azure Pack
- Windows Azure Pack Providers

## **Optimizing Your Cloud Infrastructure**

## **Configuring a Private Cloud Environment**

- Overview of System Center 2012 R2 Virtual Machine Manager
- Managing the Virtual Environment with Virtual Machine Manager
- Configuring Private Cloud Resources and Security

## **Monitoring Cloud Based Applications**

- Overview of System Center 2012 R2 Operations Manager
- Agent Deployment in Operations Manager
- Configuring Custom Monitoring for Applications and Services in the Cloud
- Monitoring the Network Infrastructure
- Monitoring Distributed Applications

## **Operating and Extending Service Management in the Private Cloud**

- Overview of Service Manager
- Configuring Security and User Roles
- Configuring Work Items
- Configuring Incident Queues
- Configuring Service Offerings for a Cloud

## **Problem Management in the Private Cloud**

- Overview of Problem Management
- Creating Custom Rules in Operations Manager

## **High Availability, Protection, and Recovery for the Cloud**

- High Availability for a Cloud
- Protecting Data in the Private Cloud
- Recovering Data in the Private Cloud

## **Configuring SLAs, Dashboards, and Widgets**

Using Virtual Machine Manager to  
Keep the Cloud Infrastructure Up-to-  
Date

- Using Configuration Manager to keep Virtual Machines Up-to-Date
- Using System Center Advisor to Optimize Cloud Infrastructure
- Using Pro-Tips to Optimize Cloud Infrastructure

- Configuring Service Level Tracking in Operations Manager
- Configuring and Deploying Widgets and Dashboards
- Publishing Real-Time State with Microsoft Visio Snap-in
- System Center Analytics
- Analyzing Service Manager OLAP Cube Data Using Microsoft Office Excel
- Installing, Configuring and Configuring Service Reporting to Create Chargeback Reports

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