

20246DC

**Monitoring and  
Operating a Private  
Cloud**

**5 DAYS**

This course describes how to monitor and operate a cloud with Microsoft System Center 2012 R2. This course focuses on how to manage and administer a cloud environment, and it describes how you can monitor key infrastructure elements and applications that run within a cloud.

#### **Module 1: 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

#### **Module 2: Configuring a Private Cloud Environment**

- Overview of System Center 2012 R2 Virtual Machine Manager
- Managing the Virtual Environment with Virtual Machine Manager
- Creating Clouds

#### **Module 3: Deploying Cloud Services**

- Overview of Service Templates
- VMM Profiles
- Web Deploy Packages
- Overview of Server App-V
- Data-Tier Application Packages
- Deploying Services through App Controller

#### **Module 4: Monitoring Cloud Based Applications**

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

#### **Module 5: Configuring Application Performance Monitoring**

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

## Module 6: 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

## Module 7: Automating Incident Creation, Remediation, and Change Requests

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

## Module 8: Problem Management in the Private Cloud

- Overview of Problem Management
- Creating Custom Rules

## Module 9: Operating a Self Service, Multi-Tenant Cloud with Windows Azure Pack

- Windows Azure Pack Key Concepts
- Administer Windows Azure Pack
- Windows Azure Pack Providers

## Module 10: 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

## Module 11: Optimizing Your Cloud Infrastructure

- 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

## Module 12: Configuring SLAs, Dashboards, and Widgets

- Service Level Tracking
- Configuring and Deploying Widgets and Dashboards
- Publishing Real-Time State with Microsoft Visio Snap-in
- System Center Analytics
- Using Excel and SSRS to View Data
- Configuring Service Reporting