

20247DC

**Configuring and  
Deploying a Private  
Cloud**

**5 DAYS**

You will learn how to configure a service catalog and publish request offerings to the self-service portal. You will also gain the knowledge to be able to deploy and configure Data Protection Manager (DPM) and Orchestrator in a cloud scenario and integrate it with other System Center 2012 R2 components. You will learn how to configure high availability, disaster recovery and protection for a cloud. You will learn how to configure a multi-tenant cloud by using the Windows Azure Pack This course is intended for cloud administrators who will be responsible for designing, installing and configuring a cloud infrastructure.

#### **Module 1: Planning for the Cloud**

- Understanding Cloud Models
- Benefits for Deploying a Private Cloud
- Designing a Private Cloud Infrastructure
- Overview of Windows Server 2012 R2 Hyper-V
- Overview of System Center 2012 R2 Components
- Deploying Hyper-V Clustering with VMM

#### **Module 2: Configuring and Deploying the Private Cloud with Microsoft System Center 2012 R2 Virtual Machine Manager**

- Overview of VMM Architecture and Components
- Configuring Advanced Networking in VMM
- Installing and Upgrading VMM
- Configuring VMM Security and Roles
- Understanding Host Groups

#### **Module 3: Extending and Maintaining Cloud Infrastructure**

- Overview of the PXE and Update Server Roles
- Deploying Bare-Metal Hyper-V Host Servers
- Configuring the Update Server Role
- Creating and Using an Update Baseline

#### **Module 4: Configuring Application Delivery**

- Dynamic Application Deployment Overview
- Web Deployment Packages
- Server Application Virtualization Overview
- Configuring Server App-V Components
- Sequencing and Deploying Virtual Applications

## Module 5: Creating the Private Cloud Building Blocks

- Configuring Guest Operating System Profiles
- Configuring Hardware Profiles
- Configuring SQL Server Using SQL Server Profiles
- Configuring Application Profiles
- Configuring Virtual Machine Templates
- Configuring Service Provider Foundation
- Configuring User Roles

## Module 6: Deploying and Configuring Access to a Private Cloud

- Understanding Private Cloud Computing
- Installing and Configuring App Controller
- Creating and Managing Service Templates

## Module 7: Monitoring Cloud Infrastructure

- Operations Manager Architecture and Security
- Operations Manager Installation Considerations
- Configuring User Roles and Notifications
- Configuring Management Packs
- Configuring Integration with System Center 2012 R2

## Module 8: Extending and Customizing Monitoring of the Cloud Infrastructure

- Configuring System Center Advisor
- Configuring the SharePoint Server Portal
- Monitoring Templates
- Distributed Application Monitoring

## Module 9: Implementing Service Management for the Cloud

- Service Manager Architecture Overview
- Upgrading to System Center 2012 R2 Service Manager
- Understanding Service Manager Work Items
- Configuring Service Manager Connectors
- Configuring Service Manager Notifications

## Module 10: Configuring High Availability, Disaster Recovery and Protection for a Cloud

- Planning for Azure Site Recovery
- Planning DPM Deployment
- DPM Architecture and Components
- Upgrading DPM
- Configuring DPM for the Private Cloud
- Configuring Application Protection for a Cloud
- Restoring Applications to the Cloud

## Module 11: Automating and Standardizing a Cloud

Orchestrator Architecture and Components Overview

Deploying and Configuring Core Components

Managing Runbooks

Configuring Integration Packs

## Module 12: Configuring a Self-Service Multi-Tenant Cloud with the Windows Azure Pack

Configuring the Windows Azure Pack