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## Configuring and Deploying a Private Cloud with System Center 2012 (M10751)

**Explore the key components of System Center 2012 that are necessary for delivering services on the private cloud infrastructure.**

In this course, you will gain the skills and knowledge needed to design, install, and configure a private cloud. You will learn how to configure and deploy the application infrastructure as well as the key components of System Center 2012 that are necessary for managing services on the private cloud infrastructure.

You will cover the requirements needed to produce a high-level design for the private cloud environment. Through hands-on practice, you will configure and deploy the application infrastructure, as well as learn how to configure a pre-boot execution environment (PXE) server, an update server, and software update baseline. You will learn how to configure a service catalog and publish this catalog to the self-service portal. You will cover what is required to deploy and configure System Center 2012 - Data Protection Manager (DPM) and Orchestrator in a private cloud.

### What You'll Learn

- Plan for the private cloud
- Configure and deploy the private cloud infrastructure
- Extend and maintain the private cloud infrastructure
- Configure virtual application delivery
- Create the private cloud building blocks
- Deploy and access the first business unit private cloud
- Monitor the private cloud infrastructure
- Extend and customize monitoring of the private cloud infrastructure
- Implement service management for the private cloud
- Configure a private cloud service catalog
- Protect the private cloud infrastructure
- Automate and standardize the private cloud

### Who Needs to Attend

- Data center administrators who will be responsible for designing, installing, and configuring a private cloud infrastructure
- IT professionals who are responsible for monitoring and protecting the private cloud infrastructure

### Prerequisites

System administrator-level working knowledge of:

- Windows Server 2008 R2
- Active Directory Domain Services (AD DS)
- Networking experience
- Previous versions of System Center products
- Configuration of Microsoft SharePoint
- Hyper-V

- Data center management processes
- Storage Area Network (SAN) knowledge

## **Follow-On Courses**

There are no follow-ons for this course.

## **Certification Programs and Certificate Tracks**

This course is part of the following programs or tracks:

- MCSE: Private Cloud

## **Course Outline**

### **1. Planning for the Private Cloud**

- Private Cloud
- Requirements for Deploying a Private Cloud
- Designing the Private Cloud Infrastructure Components
- System Center 2012 Components
- Deploying Hyper-V Clustering with Virtual Machine Manager (VMM)

### **2. Private Cloud Configuration and Deployment with System Center VMM**

- VMM Architecture and Components
- Installing and Upgrading VMM
- Configuring VMM Security and Roles
- Host Groups

### **3. Extending and Maintaining the Private Cloud Infrastructure**

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

### **4. Configuring Virtual Application Delivery**

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

### **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 Self-Service Portal Users

### **6. Deploying and Accessing a Private Cloud**

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

### **7. Monitoring the Private Cloud Infrastructure**

- Operations Manager Architecture and Security
- Upgrading Operations Manager 2007 R2
- Configuring Notifications
- Configuring Management Packs
- Configuring Integration with System Center 2012

## **8. Extending and Customizing Monitoring of the Private Cloud Infrastructure**

- Configuring the SharePoint Portal
- Monitoring Templates
- Distributed Application Monitoring

## **9. Implementing Service Management for the Private Cloud**

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

## **10. Protecting the Private Cloud Infrastructure**

- Planning Data Protection Manager (DPM) Deployment
- DPM Architecture and Components
- Upgrading DPM
- Configuring DPM for the Private Cloud
- Configuring Application Protection for the Private Cloud
- Restoring Applications to the Private Cloud

## **11. Automating and Standardizing the Private Cloud**

- Orchestrator Architecture and Components
- Deploying and Configuring Core Orchestrator Components
- Managing Runbooks
- Configuring Integration Packs

## **12. Configuring the Cloud Services Process Pack**

- Implementing the Cloud Services Process Pack
- Service Level Management

## **Labs**

### **Lab 1: Plan for the Private Cloud**

- Deploy the Virtual Machine Manager Agent
- Create a Hyper-V Host Cluster Using VMM

### **Lab 2: Configure and Deploy the Private Cloud Infrastructure**

- Review and Configure Hosts
- Configure Host Groups
- Configure User Roles and Run as Accounts
- Configure the Library
- Prepare the Private Cloud Infrastructure
- Deploy a New Virtual Machine

### **Lab 3: Maintain the Private Cloud Infrastructure**

- Configure a PXE Server in VMM
- Configure an Update Server Role in VMM
- Configure a Software Update Baseline in VMM

#### **Lab 4: Configure Virtual Application Delivery**

- Configure the Server App-V Sequencer
- Configure the Server App-V Agent
- Sequence an Application
- Test the Server App-V Package Deployment

#### **Lab 5: Create the Private Cloud Building Blocks**

- Configure Profiles
- Configure Virtual Machine Templates
- Configure a Service Template
- Configure a User Role
- Deploy the StockTrader Application Service

#### **Lab 6: Deploy and Access a Private Cloud**

- Create and Configure a Private Cloud
- Configure App Controller
- Create, Deploy, and Manage Services

#### **Lab 7: Monitor the Private Cloud Infrastructure**

- Deploy Agents
- Deploy and Configure Monitoring Management Packs
- Configure Notifications
- Configure VMM Integration
- Configure DPM Integration

#### **Lab 8: Extend and Customize Monitoring**

- Create Custom Monitoring
- Create a Distributed Application
- Configure Service Level Management
- Create Views for Private Cloud Infrastructure
- Configure SharePoint Integration

#### **Lab 9: Implement Service Management for the Private Cloud**

- Configure Service Manager Basic Settings
- Configure Service Manager Connectors
- Configure the Self-Service Portal
- Configure Notifications

#### **Lab 10: Protect the Private Cloud Infrastructure**

- Configure the Storage Pool
- Deploy DPM Protection Agents
- Create and Configure Protection Groups
- Configure SQL Server Self-Service Recovery
- Restore Data from a SQL Server Protection Group
- Perform Self-Service Recovery to Recover SQL Server Data

#### **Lab 11: Automate the Private Cloud**

- Deploy and Configure Components
- Manage Runbooks
- Configure Integration Packs

#### **Lab 12: Configure the Cloud Service Process Pack**

- Install the Cloud Service Process Pack
- Configure User Roles and Settings
- Create an Incident Request

- Configure Service Level Management



### Virtual Classroom

**Course Code: 6384**

Authorized Course

**\$2995 USD**

5 Day Course

Microsoft Course: M10751

5 Day SATV Voucher

### Other Delivery Methods

On-Site



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## Configuring and Deploying a Private Cloud with System Center 2012 (M10751)

### Virtual Classroom e-Learning Dates

Jun 17 - 21, 2013 8:30 AM - 4:30 PM ET	Aug 26 - 30, 2013 8:30 AM - 4:30 PM ET
Jul 22 - 26, 2013 11:30 AM - 7:30 PM ET	Sep 30 - Oct 4, 2013 8:30 AM - 4:30 PM ET
	Nov 4 - 8, 2013 8:30 AM - 4:30 PM ET
	Dec 9 - 13, 2013 8:30 AM - 4:30 PM ET

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