

**Course 10751A: Configuring and Deploying a Private Cloud with System Center 2012  
Exam 70-247  
Duration: 40 Hrs**

**Course Outline**

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

This module describes the core components of a private cloud and the prerequisites for deploying a private cloud.

**Lessons**

- Understanding the Private Cloud
- Requirements for Deploying a Private Cloud
- Designing the Private Cloud Infrastructure
- Overview of System Center 2012 Components
- Deploying Hyper-V Clustering with VMM

**Lab: Planning for the Private Cloud**

- Deploying the Virtual Machine Manager Agent
- Creating a Hyper-V Host Cluster Using VMM

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

This module describes how to configure infrastructure components by using System Center 2012 -Virtual Machine Manager

**Lessons**

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

**Lab: Configuring and Deploying the Private Cloud Infrastructure**

- Reviewing and Configuring Hosts
- Configuring Host Groups
- Configuring User Roles and Run As Accounts
- Configuring the Library
- Preparing the Private Cloud Infrastructure
- Deploying a New Virtual Machine

**Module 3: Extending and Maintaining the Private Cloud Infrastructure**

This module describes how to integrate features provided by Windows Deployment Services (WDS) and Windows Server Update Services (WSUS) to help extend and manage the VMM private cloud infrastructure resources.

## Lessons

- 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

## Lab: Maintaining the Private Cloud Infrastructure

- Configuring a PXE Server in VMM
- Configuring a Host Profile
- Configuring an Update Server Role in VMM
- Configuring a Software Update Baseline in VMM

## Module 4: Configuring Application Delivery

This module explains how to use the Microsoft Web Deployment Tool and Server App-V to dynamically deploy applications in the private cloud.

## Lessons

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

## Lab : Configuring Virtual Application Delivery

- Configuring the Server App-V Sequencer
- Configuring the Server App-V Agent
- Sequencing an Application
- Testing the Server App-V Package Deployment

## Module 5: Creating the Private Cloud Building Blocks

This module explains how to prepare and deploy the underlying infrastructure components that are used as building blocks for delivering private cloud services.

## Lessons

- Configuring Guest Operating System Profiles
- Configuring Hardware Profiles
- Configuring SQL Server Using SQL Server Profiles
- Configuring Application Profiles
- Configuring Virtual Machine Templates
- Configuring the Self-Service User Role

## Lab: Creating the Private Cloud Building Blocks

- Configuring Profiles
- Configuring Virtual Machine Templates
- Configuring a Service Template
- Configuring a User Role
- Deploying the StockTrader Application Service

## **Module 6: Deploying and Accessing a Private Cloud**

This module explains private clouds, System Center 2012 - App Controller, and private cloud services.

### **Lessons**

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

### **Lab : Deploying and Accessing a Private Cloud**

- Creating and Configuring a Private Cloud
- Configuring App Controller
- Creating, Deploying and Managing Services

## **Module 7: Monitoring the Private Cloud Infrastructure**

This module explains how to monitor the private cloud infrastructure by using System Center 2012 - Operations Manager.

### **Lessons**

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

### **Lab: Monitoring the Private Cloud Infrastructure**

- Deploying Agents
- Deploying and Configuring Monitoring Management Packs
- Configuring Notifications
- Configuring VMM Integration
- Configuring DPM Integration

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

This module explains how to use Operations Manager templates to monitor various applications and implement distributed application monitoring.

### **Lessons**

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

### **Lab: Extending and Customizing Monitoring**

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

## **Module 9: Implementing Service Management for the Private Cloud**

This module explains how to setup, configure, and integrate the core components of System Center 2012 - Service Manager into the private cloud infrastructure.

### **Lessons**

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

### **Lab: Implementing Service Management for the Private Cloud**

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

## **Module 10: Protecting the Private Cloud Infrastructure**

This module describes how to deploy and configure Data Protection Manager in a private cloud.

### **Lessons**

- Planning 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

### **Lab: Protecting the Private Cloud Infrastructure**

- Configuring the Storage Pool
- Deploying DPM Protection Agents
- Creating and Configuring Protection Groups
- Configuring SQL Server Self-Service Recovery
- Restoring Data from a SQL Server Protection Group
- Performing Self-Service Recovery to Recover SQL Server Data

## **Module 11: Automating and Standardizing the Private Cloud**

This module explains how to deploy and configure System Center Orchestrator in a private cloud and integrate it with other System Center 2012 components.

### **Lessons**

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

## **Lab: Automating the Private Cloud**

- Creating a Runbook Server and Configuring Integration Packs
- Configuring a Template to Deploy Agents on a New Virtual Machine
- Creating a Runbook to Protect All Resources on a Virtual Machine

## **Module 12: Configuring the Cloud Services Process Pack**

This module describes how to implement the Cloud Services Process Pack and use service level management.

### **Lessons**

- Implementing the Cloud Services Process Pack
- Service Level Management

### **Lab: Configuring the Cloud Service Process Pack**

- Installing the Cloud Service Process Pack
- Configuring User Roles and Settings
- Configuring Service Offerings
- Creating an Incident Request
- Configuring Service Level Management