

20247DC	<u>Configuring and Deploying a Private Cloud</u>	5 DAYS	SATV : YES
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Course Description

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. It is also intended for solution architects who are responsible for designing cloud architectures and extending existing cloud solutions. The secondary audience includes datacenter administrators who are responsible for designing, installing and configuring the infrastructure for an on premise, Microsoft Private Cloud and Hybrid Cloud solutions.

Course Outline

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

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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

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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