5 Days

Configuring and Deploying a Private Cloud

This Microsoft Course 20247D Configuring and Deploying a Private Cloud is a five-day training course that imparts requisite skills for configuring and deploying a private cloud environment on Windows System Center 2012 R2 platform.

Through a combination of lectures and hands-on lab, professionals learn to configure Microsoft Server Application Virtualization (App-V), PXE Servers, monitor clouds using Operations Manager, and Data Protection manager.

Course Details

Course Outline

Module 1: Planning for the Cloud

This module explains how to design a private cloud infrastructure by understanding the requirements of a private and public cloud.

Lessons

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

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

This module explains how to configure and deploy a private cloud using Virtual Machine Manager.

Lessons

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

Module 3: Extending and Maintaining Cloud Infrastructure

This module explains how to extend and maintain the private cloud infrastructure, deploying bare-metal Hyper-V host servers. It also explains how to

configure software updates for the private cloud fabric using VMM.

Lessons

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

Module 4: Configuring Application Delivery

This module explains how to configure application delivery for the private cloud using VMM.

Lessons

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

Module 5: Creating the Private Cloud Building Blocks

This module explains the private cloud building blocks which include configuring virtual machine templates and profiles in VMM.

Lessons

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

Module 6: Deploying and Configuring Access to a Private Cloud

This module explains how to deploy and access a private cloud by configuring private cloud resources and private cloud capacity.

Lessons

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

Module 7: Monitoring Cloud Infrastructure

This module explains how to monitor the hybrid cloud infrastructure with Operations Manager installing, configuring and integrating Operations Manager with other System Center 2012 R2 components.

Lessons

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

Module 8: Extending and Customizing Monitoring of the Cloud Infrastructure

This module explains how to extend and customize the monitoring of the hybrid cloud infrastructure.

Lessons

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

Module 9: Implementing Service Management for the Cloud

This module explains how to implement service management for the private cloud using Service Manager.

Lessons

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

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

This module explains how to configure protection and disaster recovery for the private by configuring Hyper-V Recovery Manager.

Lessons

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

Module 11: Automating and Standardizing a Cloud

This module explains how to automate and standardize the private cloud using System Center 2012 R2 Orchestrator.

Lessons

- Orchestrator Architecture and Components Overview

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

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

This module explains how to configure a multi-tenant private cloud by Windows Azure Pack and also explains how to configure virtual machine clouds, website clouds, and SQL clouds.

Lessons

- Configuring the Windows Azure Pack

Who Should Attend

The Configuring and Deploying a Private Cloud course is intended for cloud administrators who will be responsible for designing, installing and configuring a cloud infrastructure.

Pre Requisite

The cloud administrators should have the prerequisite knowledge in the following areas:

- Microsoft Azure.
- Networking experience.
- Hyper-V knowledge.
- Windows Server 2012 experience.
- Knowledge of Active Directory Domain Services (AD DS)
- Working knowledge of previous versions of System Center products.
- Knowledge of configuration of Microsoft SharePoint.
- Storage Area Network (SAN) Knowledge.
- Understanding of cloud and data center management processes.

Exams

Microsoft Certified Professional (MCP) [70-247]

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