

<b>10981AC</b>	<b>Infrastructure Provisioning with System Center Virtual Machine Manager</b>	<b>5 DAYS</b>	<b>SATV : YES</b>
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## Course Description

Get professional, experienced instruction and hands-on practice configuring and managing datacenter and cloud virtualization and infrastructure using System Center 2012 R2 Virtual Machine Manager in this 5-day Microsoft Official Course. This course will cover managing, maintaining and provisioning virtualization and infrastructure services in a Windows Server 2012 and Windows Server 2012 R2 environment using System Center 2012 R2 Virtual Machine Manager. Although there is some cross-over of skills and tasks across these courses, this course primarily covers the advanced and enterprise-level technologies and solutions available with System Center 2012 R2 Virtual Machine Manager.

## Course Outline

### Module 1: Overview of Hyper-V and Virtual Machine Manager

- Overview of Hyper-V
- Overview of Virtual Machine Manager

### Module 2: Configuring High Availability for Virtual Machine Manager and Hyper-V

- Clustering requirements for Virtual Machine Manager
- Configuring SQL AlwaysOn for the Virtual Machine Manager Database
- Hyper-V Host Clustering

### Module 3: Updating Virtual Machine Manager and Fabric Servers

- Understanding the Servicing Order for System Center
- Performing the manual update process in Virtual Machine Manager
- Patching the Virtual Machine Manager Fabric with Windows Server Update Services

### Module 4: Configuring Networking in Virtual Machine Manager

- Overview of Networking in Virtual Machine Manager
- Logical Networks
- Uplink and Virtual Port Profiles
- Logical Switches
- Virtual Machine Networks
- Software Defined Networking (optional)

### Module 5: Configuring Storage in Virtual Machine Manager

- Storage options available in Hyper-V and Virtual Machine Manager
- Understanding Storage in Virtual Machine Manager
- What Storage will be managed?
- Configuring and Managing Storage in Virtual Machine Manager

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## **Module 6: Managing Clouds in Virtual Machine Manager**

- Introduction to Clouds
- Creating and Managing a Private Cloud in Virtual Machine Manager
- Working with User Roles in Virtual Machine Manager

## **Module 7: Configuring and Managing the Virtual Machine Manager Library and Library Objects**

- Overview of the Virtual Machine Manager Library
- Managing Libraries

## **Module 8: Preparing the Windows Operating System for deployment in Virtual Machine Manager**

- Preparing a Windows Operating System
- Virtual Machine Architecture
- Preparations required for Bare Metal deployments of Hyper-V and Scale-out File Servers

## **Module 9: Virtual Machine and Service Templates**

- Overview of Virtual Machine Templates
- Overview of Service Template Templates

## **Module 10: System Center Integration**

- Monitoring the Virtual Machine Manager environment with Operations Manager
- Automation with Orchestrator

## **Module 11: Windows Azure Pack**

- Overview of Windows Azure Pack
- Deploying Windows Azure Pack
- Configuring Windows Azure Pack
- Windows Azure Pack Tenant Experience

## **Module 12: Azure Site Recovery**

- Overview of Azure Site Recovery
- Configuring and using Azure Site Recovery