

Configuring and Deploying a Private Cloud

Duration: 5 Days

Price: \$2795 **California residents and government employees call for pricing.*

Discounts: We offer multiple discount options. [Click here](#) for more info.

Delivery Options: Attend face-to-face in the classroom or [remote-live attendance](#).

Students Will Learn

- Producing a high-level design that accounts for requirements for cloud environments
- Configuring and deploying the cloud fabric
- Configuring a PXE server, an update server and a software update baseline
- Configuring Microsoft Server Application Virtualization (App-V)
- Building the core components necessary for delivering services on the fabric
- Allocating resources to a cloud and grant access to a cloud
- How to monitor clouds using the Operations Manager
- Tools necessary to extend and customize Operations Manager for cloud environments
- Setting up, configuring and integrating the core components of the Service Manager into a cloud fabric
- Configuring a service catalog and then publishing it to the Self-Service Portal
- Deploying and configuring Data Protection Manager in a cloud
- Deploying and configuring Orchestrator in a cloud and integrating it with other System Center components

Course Description

This course focuses on the skills required to configure and deploy a cloud using Microsoft System Center 2012 R2. Students learn how to plan, configure and deploy a private cloud using Virtual Machine Manager. Topics include extending and maintaining the private cloud infrastructure; configuring dynamic application deployment and sequencing applications using Server App-V; using Operations Manager; implementing service management for the private cloud using Service Manager; configuring Hyper-V Recovery Manager and automating and standardizing the private cloud using System Center 2012 R2 Orchestrator.

Course Prerequisites

Students should have working knowledge of Windows Server 2012, Hyper-V, AD DS, System Center, SharePoint, Windows Azure and networking.

Planning for the Cloud

- Understanding Cloud Models
- Requirements 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 Virtual Machine Manager (VMM)

Extending and Maintaining Cloud Infrastructure

- Overview of the Pre-Boot eXecution Environment (PXE) and Update Server Roles
- Integrating VMM with WDS and WSUS
- Deploying Bare-Metal Hyper-V Host Servers
- Configuring the Update Server Role
- Creating and Remediating a Software Update Compliance Baseline

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

Monitoring Cloud Infrastructure

- Operations Manager Architecture and Security
- Planning for High Availability and Disaster Recovery
- Operations Manager Installation Considerations
- Configuring Notification Subscriptions in Operations Manager
- Configuring User Roles and Notifications

Configuring and Deploying the Private Cloud

- Defining and Describing the Components of VMM
- Configuring Advanced Networking in VMM
- Installing and Upgrading VMM
- Configuring VMM Security and Roles
- Understanding Host Groups

Configuring Application Delivery

- Dynamic Application Deployment Overview
- Creating Web Deployment Packages by Using the Web Deployment Tool
- Server Application Virtualization Overview
- Configuring the Server App-V Sequencer and Agent
- Sequencing and Deploying a Server App-V Virtualized Application

Deploying and Configuring Access to a Private Cloud

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

Extending and Customizing Monitoring of the Cloud Infrastructure

- Configuring System Center Advisor
- Configuring the SharePoint Server Portal
- Configuring the Operations Manager SharePoint Web Part
- Using Management Pack Templates in Operations Manager
- Monitoring Templates
- Configuring Distributed Application

- Installing, Configuring and Upgrading Management Packs
- Configuring Integration Between Operations Manager and Other System Center 2012 R2 Components

Monitoring

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

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

Automating and Standardizing a Cloud

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

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

- Overview of the Windows Azure Pack
- Configuring the Windows Azure Pack
- Configuring VM Clouds
- Configuring Website Clouds
- Configuring SQL Clouds
- Configuring Plans

Hands On Technology Transfer, Inc.
 1 Village Square, Suite 8
 14 Fletcher Street
 Chelmsford, MA 01824
 1-800-413-0939 | 1-978-250-4299
www.traininghott.com

Copyright© 2017 Hands On Technology Transfer, Inc.