Monitoring and Operating a Private Cloud with System Center 2012

Temario:
Este curso describe cómo monitorear y operar una nube privada con Microsoft System Center 2012. Este curso se enfoca en cómo administrar y administrar la nube privada, y describe cómo puedes monitorear elementos de infraestructura clave y aplicaciones que se ejecutan dentro de la nube privada. No se discute planeación e implementación, que se cubre en 10751A: Configurando y Desplegando una Nube Privada con System Center 2012.

Dirigido a:
Este curso está destinado a administradores de centro de datos que están responsables de monitorear y proteger la infraestructura de nube privada. También está destinado a arquitectos de solución que están responsables de diseñar arquitecturas de nube privada y ampliar soluciones de nube privada existentes. La audiencia principal para este curso son administradores que crean solicitudes de servicio. La audiencia secundaria incluye administradores de centro de datos —que son responsables de proporcionar provisionamiento para aplicaciones incluyendo configurar y desplegar esos aplicaciones— dueños de negocios/service, y administradores que implementan solicitudes de servicio.

Objetivos:

- Después de completar este curso, los estudiantes serán capaces de:
  - Automatizar la creación, remedialización y solicitudes de cambio.
  - Describir la infraestructura de nube privada.
  - Implementar la gestión de problemas en la nube privada.
  - Configurar y optimizar nubes de unidad de negocio.
  - Automatizar la asistencia a servicios.
  - Desplegar servicios de nube.
  - Proteger los recursos en la nube privada mediante Data Protection Manager.
  - Configurar cumplimiento en la nube privada.
  - Configurar monitoreo de rendimiento de aplicaciones.
  - Configurar SLAs, paneles de control y widgets.
  - Operar y extender la gestión de servicios en la nube privada.

Prerequisitos:
Antes de asistir a este curso, los estudiantes deben tener:

- Experiencia con Windows Server 2008 R2
- Conocimientos de Active Directory Domain Services (AD DS)
- Experiencia en red
- Conocimiento de productos anteriores de System Center
- Conocimiento de configuración de Microsoft SharePoint
- Conocimiento de Hyper-V
- Conocimiento de procesos de administración de centro de datos
- Conocimiento de Redes Area del Sistema (SAN)

Exámenes y certificación

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Module 1: Introduction to the Private Cloud
This module gives students an overview of a private cloud infrastructure, including what it is, the business and technical drivers behind implementing it, and how they can use System Center 2012 to monitor and operate it. Students will understand the key concepts of a private cloud and verify key components of System Center 2012.

- Overview of the Cloud Computing Model
- Requirements for the Private Cloud
- Operating a Private Cloud Infrastructure with System Center
- Maintaining the Health of the Private Cloud
- Integrating System Center Components
- Verifying the Compliance of the Private Cloud Infrastructure

- Lab : Verifying the Private Cloud Infrastructure
- Lab : Verifying the Compliance of the Private Cloud Infrastructure
- Exercise: Checking Compliance

Module 2: Configuring and Optimizing Business Unit Clouds
This module explains how to configure a new business unit cloud within Virtual Machine Manager.

- Overview of System Center Virtual Machine Manager
- Managing a Virtual Environment with Virtual Machine Manager
- Creating Business Unit Clouds

- Lab : Configuring and Optimizing Business Unit Clouds

Module 3: Deploying Cloud Services
This module explains how to deploy pre-packaged applications and create a new service template to deploy a service into the cloud.

- Overview of Service Templates
- VMM Profiles
- Web Deploy Packages
- Overview of Server App-V
- Data-Tier Application Packages

- Lab : Importing and Deploying the Stock Trader Application

Module 4: Monitoring Private Cloud Services
This module provides an overview of System Center Operations Manager. The students are

Module 5: Configuring Application Performance Monitoring
This module gives students a deep insight into the Application Performance Monitoring (APM) feature of Operations Manager. A .NET application has been installed into the lab environment that will be used for this module. Students will learn to configure APM to monitor the performance and availability of this application. A break in the application is then instigated where students will see how Operations Manager detects and reports this with the Alerting and Diagnostics tools that are built into Operations Manager.

- Application Performance Monitoring
- Advanced Monitoring in Application Performance Monitoring
- Viewing Application Performance in Operations Manager

- Lab : Configuring Application Performance Monitoring

Module 6: Operating and Extending Service Management in the Private Cloud
This module explains the core functionality of Service Manager and the steps to create and manage change requests, incidents, and release records. The module also describes about the security model behind Service Manager so that students can customize and extend the integral functionality of the service.

- Overview of Service Manager
- Configuring Security and User Roles
- Configuring Work Items
- Configuring Incident Queues
- Configuring Service Offerings

- Lab : Operating and Extending Service Management in the Cloud

Module 7: Automatic Incident Creation, Remediation, and Change Requests
This module provides an overview of Orchestrator and explains how Orchestrator integrates with Operations Manager and Service Manager.

- Overview of System Center Orchestrator 2012
- Integrating Orchestrator with Operations Manager and Service Manager

- Lab : Automating Incident Creation, Remediation, and Change Requests

Module 8: Operating and Extending Service Infrastructure
This module explains how to operate and extend the integral functionality of the private cloud infrastructure.

- Lab : Configuring Security and User Roles
- Lab : Configuring Work Items
- Lab : Configuring Incident Queues
- Lab : Configuring Service Offerings

Module 9: Automating Self-Service Provisioning
This module explains about automating self-service provisioning by using the System Center Cloud Service Process Pack, including the configuration items that are created and the request items that are contained in the System Center Cloud Service Process Pack.

- Lab : Automating Self-Service Provisioning

Module 10: Private Cloud Protection and Recovery
This module explains how to protect the resources in the private cloud by using Data Protection Manager. It also explains how to implement a recovery action by using Orchestrator to recover a database.

- Lab : Private Cloud Protection and Recovery

Module 11: Configuring Compliance in the Private Cloud
This module explains how to implement IT Governance, Risk Management, and Compliance (GRC) in a private cloud environment by using System Center 2012. It also explains how to implement Software Update Compliance in Virtual Machine Manager to verify whether key private cloud infrastructure is correctly updated with the latest software updates. The module also describes how to implement the IT GRC Management Pack in Service Manager to check for compliance across key Service Components and remediate non-compliant items.

- Lab : Configuring Compliance in the Private Cloud

Module 12: Maintaining Compliance through VMM Security Baselines and System Center Advisor
This module explains how to maintain compliance through VMM Security Baselines and System Center Advisor.

- Lab : Maintaining Compliance through VMM Security Baselines and System Center Advisor
shown how Operations Manager is used to monitor the various services that underpin the private cloud. The students are then shown how to deploy agents to key service components running within the private cloud. Custom monitoring is then applied to these components which include the creation of a distributed application model to give a holistic view of the health of the private cloud infrastructure.

- Overview of System Center Operations Manager
- Agent Deployment in Operations Manager
- Configuring Custom Monitoring
- Monitoring the Network Infrastructure
- Monitoring Distributed Applications
- Lab: Monitoring Private Cloud Services

Module 8: Problem Management in the Private Cloud
This module provides an overview of problem management and explains how students can use it within a service management framework. Additionally, this module explains its implementation as a manual feature of Service Manager. Finally, this module describes how to create a custom event monitor in Operations Manager and then use it to identify and route incidents and problems to Service Manager.

- Overview of Problem Management
- Creating Custom Rules
- Lab: Automating Problem Management in the Private Cloud

Module 12: Configuring SLAs, Dashboards, and Widgets
This module describes the various methods for surfacing service and performance-related data from Operations Manager and Service Manager to SharePoint and Microsoft Excel.

- Service Level Tracking
- Configuring and Deploying Widgets and Dashboards
- Publishing Real-Time State with Microsoft Visio Snap-in
- System Center Analytics
- Using Excel and SSRS to View Data
- Overview of PerformancePoint
- Lab: Configuring SLAs, Dashboards, and Widgets

Más información:
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