



A Composite Solution With Just One Click

Microsoft

70-247 PRACTICE EXAM

Configuring and Deploying a Private Cloud with System Center 2012

Product Questions: 216

Version: 16.0

Case Study: 1

Contoso, Ltd

Overview

Contoso, Ltd. is a manufacturing company.

Contoso has a main office and six branch offices. The main office is located in Toronto. The branch offices are located in New York, Seattle, Miami, Montreal, Los Angeles, and Vancouver.

Existing Environment

Active Directory Environment

The network contains an Active Directory forest named contoso.com. The forest contains a child domain for each office.

Active Directory currently contains 7,500 user accounts and 15,000 computer accounts.

Network Infrastructure

All servers are located in a data center in Toronto. The data center contains multiple subnets that are separated by firewalls.

The Toronto data center contains a cluster that runs Microsoft SQL Server 2008 Enterprise Service Pack 1 (SP1).

Four servers are unused and are being considered as potential Hyper-V hosts. The servers are configured as shown in the following table.

Server name	Baseboard Management Controller (BMC)	Operating system
Server1	Installed	Windows Server 2012
Server2	Not installed	None
Server3	Installed	None
Server4	Installed	Windows Server 2008 R2

All of the servers being considered as potential Hyper-V hosts have both locally attached storage and access to a SAN.

Help Desk Environment

Contoso uses a help desk ticketing system that was developed in-house. Fifty help desk agents have access to the ticketing system.

The ticketing system currently tracks:

- An average of two new incidents per month, per client computer
- An average of 2,000 change requests per month

Disaster Recovery Environment

Contoso uses a third-party backup solution. Backups are scheduled for the servers in the Seattle office as follows:

- The daily incremental backups total 10 GB.

- The total size of data to back up is 100 GB.
- Backed up data is retained for 10 business days.

Problem Statements

The original developers of the help desk ticketing system are no longer employed by Contoso and maintenance of the system is becoming an issue.

Requirements

Planned Changes

Contoso plans to move the IT infrastructure to a private cloud.

Whenever possible, hardware and software costs must be minimized.

Contoso plans to open a small office in Beijing. System Center 2012 App Controller will be used to manage applications. The display names of the applications will be in Simplified Chinese Pinyin IME.

New physical servers will be deployed by using System Center 2012 Configuration Manager from a server named Server5. Server5 will also be a PXE service point.

The current backup solution will be replaced with System Center 2012 Data Protection Manager (DPM).

A public key infrastructure (PKI) will be deployed to issue and manage certificates. The PKI deployment must be made as secure as possible.

Hardware load balancers will be deployed for use in the deployment of private cloud services.

Cloud Requirements

Contoso plans to implement a cloud solution that meets the following requirements:

- Stores all virtual machines on the SAN only.
- Uses SAN copy to provision the virtual machines.
- Provides the ability to manage the resolution of incidents.
- Contains managed virtual machines across both private and public clouds.
- Provides the ability to customize the settings of management packs provided by Microsoft.
- Collects security events from all of the servers running in the private cloud and provides centralized reporting on the events.

App1 Requirements

A new application named App1 will be deployed to the private cloud. App1 is a three-tier application that contains the following components:

- A front-end tier that runs a web server. The tier must be highly available and capable of being quickly scaled out if required.
- A middle tier that runs an application server.
- A back-end tier that runs a database.

App2 Requirements

An application named App2 will be deployed to the public cloud. Users will be authenticated by using the on-premises Active Directory. The users must be able to access App2 without being prompted for authentication again.

Question: 1

You need to recommend a deployment topology for the PKI. The deployment topology must meet the cloud requirements.

What should you recommend? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. An online enterprise root certification authority (CA) only
- B. An online standalone root certification authority (CA) only
- C. An offline root certification authority (CA) and an online enterprise subordinate CA
- D. An offline root certification authority (CA) and an online standalone subordinate CA

Answer: C

Question: 2

You need to recommend a solution for the management packs. The solution must meet the cloud requirements. What should you recommend? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Export the management packs, and then modify the settings of the management packs. Seal the management packs, and then import the management packs.
- B. Export the management packs, modify the settings of the management packs, and then import the unsealed management packs.
- C. Unseal the management packs, and then modify the settings of the management packs.
- D. Create a new management pack that contains overrides.

Answer: B

Question: 3

You need to recommend a solution to meet the requirements for App2.

What should you include in the recommendation?

- A. Active Directory Rights Management Services (AD RMS)
- B. Active Directory Federation Services (AD FS)
- C. Windows Azure Active Directory Rights Management Services
- D. Microsoft Forefront Identity Manager (FIM) 2010 R2

Answer: B

Question: 4

You need to recommend the configuration settings for the SQL Server instance that will host the App Controller database. The solution must support the planned changes.

What should you include in the recommendation?

- A. Change the database collation.
- B. Enable case sensitivity.
- C. Disable full-text search.
- D. Install the SQL Server Reporting Services (SSRS).

Answer: A

Explanation:

Reference:

To support Simplified Chinese change MS SQL Collation

[http://msdn.microsoft.com/en-us/library/ms144250\(v=sql.105\).aspx](http://msdn.microsoft.com/en-us/library/ms144250(v=sql.105).aspx)

Question: 5

You need to identify which components must be created to meet the App1 deployment requirements.
Which components should you identify?

- A. A service template and a service request template
- B. A guest operating system profile and a virtual IP (VIP) template
- C. A guest operating system profile and a service request template
- D. A service template and a virtual IP (VIP) template

Answer: C

Question: 6

You need to identify what you require from the vendor of the hardware load balancer to support the planned changes.

What should you identify?

- A. A driver
- B. A provider
- C. A Management Information Base (MIB)
- D. A management tool

Answer: B

Question: 7

You need to recommend a solution to meet the technical requirements for the web tier of App1.

What should you include in the recommendation? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Network Load Balancing (NLB)
- B. Failover Clustering
- C. Multipath I/O (MPIO)
- D. DNS round robin

Answer: A

Explanation:

Reference:

Network Load Balancing (NLB) provides scalability and at the same time helps increase availability of Web-based services

<http://technet.microsoft.com/en-us/library/cc725946.aspx>

Question: 8

You need to identify which UDP port or ports must be opened on any of the firewalls between Server5 and all of the subnets in the data center. The solution must minimize the number of ports opened on the firewall.

Which port or ports should you identify? (Each correct answer presents part of the solution. Choose all that apply.)

- A. 67
- B. 69
- C. 389
- D. 3389
- E. 4010
- F. 4011

Answer: A, B, F

Explanation:

References:

Ports required by Configuration Manager: 67 and 68, 69, 4011

<http://technet.microsoft.com/en-us/library/bb632618.aspx>

Dynamic Host Configuration Protocol (DHCP): 67 and 68

Trivial File Transfer Protocol (TFTP) : 69

Boot Information Negotiation Layer (BINL): 4011

Question: 9

You need to identify which server or servers can be deployed as a Hyper-V host by using System Center 2012 -Virtual Machine Manager (VMM).

Which server or servers should you identify? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Server1
- B. Server2
- C. Server3
- D. Server4

Answer: A, C, D

Explanation:

* To support discovery, the physical computer must have a baseboard management controller (BMC) installed that enables out-of-band management.

From scenario:

Server name	Baseboard Management Controller (BMC)	Operating system
Server1	Installed	Windows Server 2012
Server2	Not installed	<i>None</i>
Server3	Installed	<i>None</i>
Server4	Installed	Windows Server 2008 R2

Question: 10

You need to identify which Microsoft SharePoint product or products support the planned deployment of the System Center 2012 Service Manager Self-Service Portal.

Which product or products should you identify? (Each correct answer presents a complete solution. Choose all that apply.)

- A. SharePoint 2010 for Internet Sites Enterprise
- B. SharePoint Foundation 2010
- C. SharePoint Server 2010
- D. SharePoint Server 2013

Answer: A, B, C

Explanation:

References:

One of the following versions of Microsoft SharePoint:

Microsoft SharePoint Foundation 2010

Microsoft SharePoint Server 2010

Microsoft SharePoint 2010 for Internet Sites Enterprise

SharePoint 2013 is not supported on the server hosting the SharePoint Web Parts.

<http://technet.microsoft.com/en-us/library/hh519608.aspx>

<http://www.server-log.com/blog/2011/12/29/scsm-2012how-to-install-the-self-service-portal.html>

Question: 11

DRAG DROP

You need to configure the storage fabric to support the deployment of the virtual machines. The solution must meet the cloud requirements.

Which three actions should you perform in sequence? (To answer, move the appropriate three actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer Area
Assign the storage to hosts and clusters.	
Configure the iSCSI initiator.	
Allocate storage to a host group.	
Install the Microsoft iSCSI Software Target.	
Run the Add Storage Devices Wizard.	

Answer:

Box 1: Configure the iSCSI initiator

Box 2: Run the Add Storage Devices Wizard.

Box 3: Allocate storage to a host group.

Explanation:

Note:

We configure the iSCSI initiator in VMM to connect to the SAN.

Then we run the Add Storage Devices Wizard to add the SAN as a storage device.

Then we can assign the storage to host groups (not directly to the hosts).

* From scenario:

/ Stores all virtual machines on the SAN only.

/ Uses SAN copy to provision the virtual machines.

* The following list describes the workflow used to discover, classify, and assign storage using VMM:

/ After configuring storage and assigning to host groups, you can assign the storage to Hyper-V hosts and clusters as shared (Cluster Shared Volume) or available storage. Note that all nodes in the cluster should have access to the storage array using host bus adapters (HBA) or iSCSI. If you allocated a storage pool to a host group, you can create and optionally assign logical units directly from the Properties dialog box of a host or host cluster. If the storage array supports iSCSI host connectivity, you can create iSCSI sessions to the storage array from the Properties dialog box of a host.

/ In addition to discovery and management of iSCSI arrays with static targets, System Center 2012 SP1 adds support for the discovery and management of iSCSI target arrays that support dynamic and manual targets (for example Starwind, HP P2000, HP Lefthand, Dell EqualLogic, and Microsoft iSCSI Software Target).

* You can use host groups to group virtual machine hosts in meaningful ways, often based on physical site location and resource allocation.

* Storage allocation — You can allocate available storage pools and LUNs to defined host groups that can represent business groups, locations and so on. Resources typically need to be allocated on the host group level before they can be assigned to hosts.

* You can create a private cloud from resources in host groups. When you create a private cloud, you select which host groups will be part of the private cloud. You can then allocate all or some of the resources from the selected host groups to the private cloud.

Reference: Configuring Storage in VMM Overview

Question: 12

DRAG DROP

You need to identify which System Center 2012 components are required to meet the cloud requirements.

Which components should you identify? (To answer, drag the appropriate components to the correct requirements.

Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Components	Answer Area	
	Requirement	Component
App Controller	Manages the resolution of incidents and issues.	Component
Configuration Manager	Deploys and manages virtual machines across both the private and public clouds.	Component
Data Protection Manager	Collects security events from all of the servers running in the private cloud and provides centralized reporting on the events.	Component
Endpoint Protection		
Operations Manager		
Service Manager		

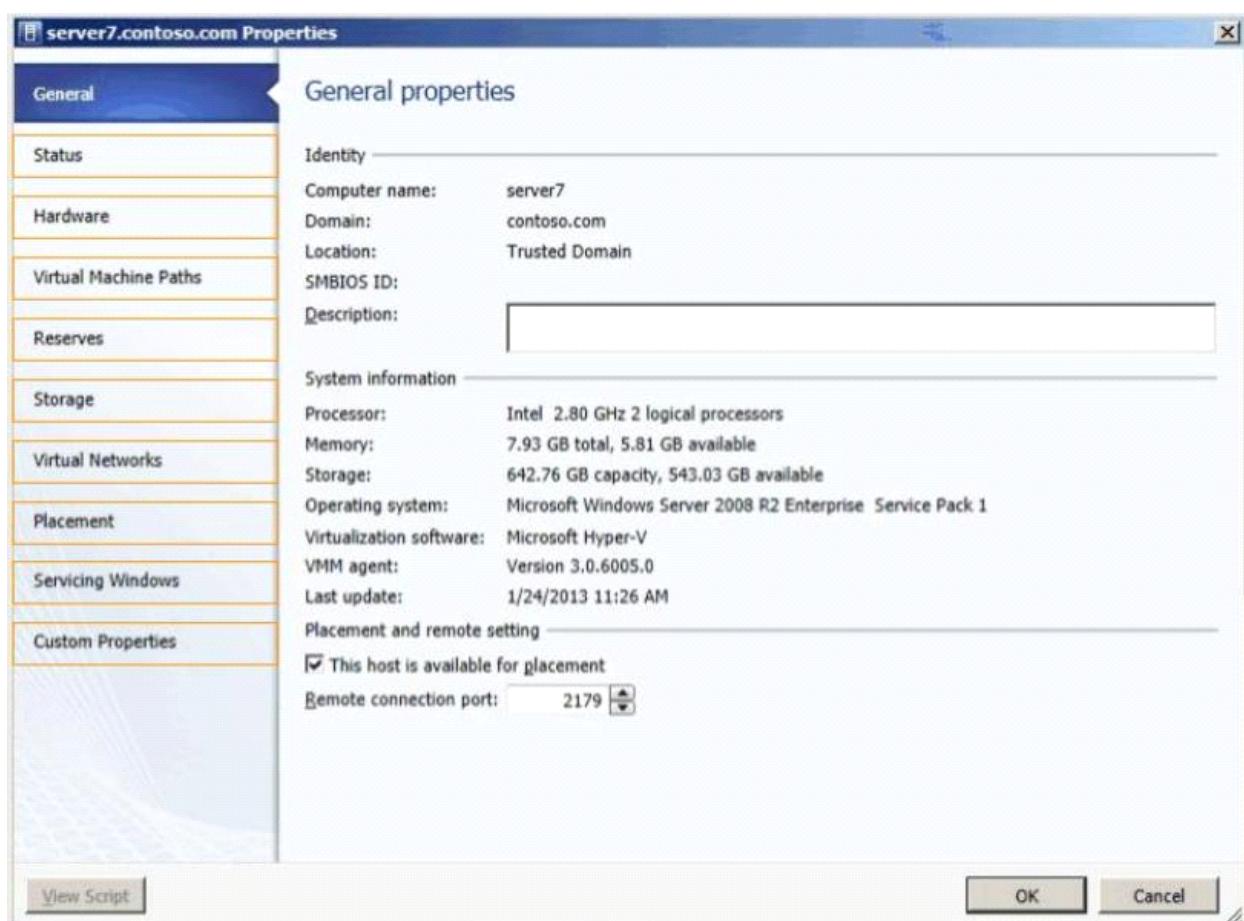
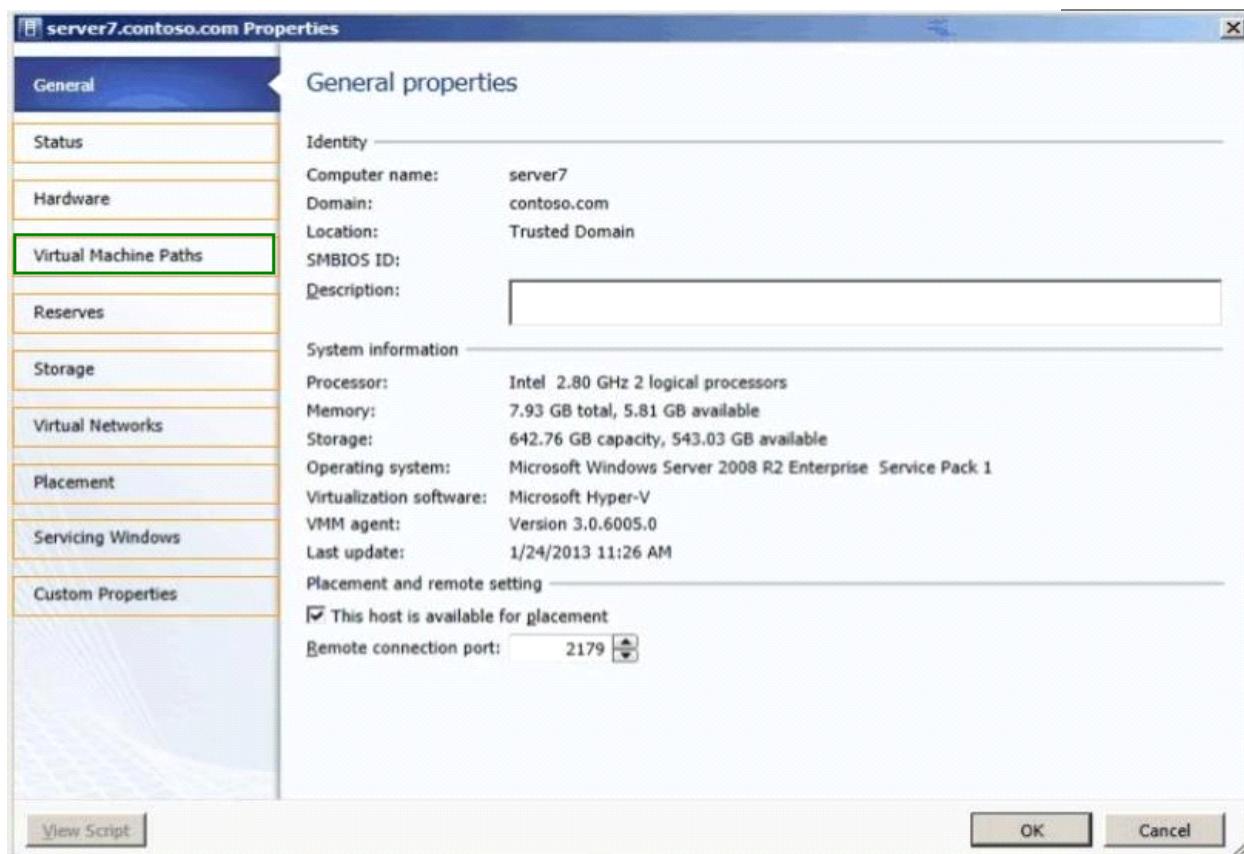
Answer:

Requirement	Component
Manages the resolution of incidents and issues.	Service Manager
Deploys and manages virtual machines across both the private and public clouds.	App Controller
Collects security events from all of the servers running in the private cloud and provides centralized reporting on the events.	Operations Manager

Question: 13**HOTSPOT**

You need to configure the Hyper-V hosts to meet the cloud requirements.

From which node should you perform the configuration? (To answer, select the appropriate node in the answer area.)

**Answer:**

Explanation:

"Uses SAN copy to provision the virtual machines"

"Stores all virtual machines on the SAN only"

Reference:

<http://technet.microsoft.com/en-us/library/gg610643.aspx>

Explanation:

"Under Locations, click Virtual Machine Location. In the results pane, under the Virtual machine path box, click Browse. In the Select Destination Folder dialog box, click the drive that you created from the assigned logical unit, and then click OK."

Case Study: 2 Northwind Traders Overview

Northwind Traders is a retail company that has three offices. The offices are located in New York, Montreal, and Miami.

In the data center of the New York office, the company plans to implement a private cloud solution that will use System Center 2012 R2.

Existing Environment

Network Infrastructure

The network contains two Active Directory forests named northwindtraders.com and contoso.com.

The northwindtraders.com forest contains servers that run either Windows Server 2012 R2 or Windows Server 2012. The northwindtraders.com forest contains all of the computers in the New York office and the Montreal office.

The contoso.com forest contains all of the computers in the Miami office. A trust relationship does not exist between the forests.

Server Environment

The data center of the Montreal office contains three servers. The servers are configured as shown in the following table.

Server name	Role	Software
WFE01	Front-end web server	Microsoft SharePoint Server 2010
APP01	Application server	Microsoft SharePoint Server 2010
SQL01	Database server	Microsoft SQL Server 2012 R2

The data center of the New York office contains seven servers. The servers are configured as shown in the following table.

Server name	Role
SCVMM01	System Center 2012 Virtual Machine Manager (VMM) server
SCSM01	System Center 2012 Service Manager server
SCO01	System Center 2012 Orchestrator server
SQL02	Database server that has SQL Server 2012 installed
WEB01	Web server
ST01	iSCSI Target Server
ST02	SMB3 file server

Service Pack 1 (SP1) for System Center 2012 is deployed to all of the System Center servers. All of the System Center servers run Windows Server 2012.

Currently, VMM is used to deploy virtual machines to Hyper-V hosts.

Implementation Plans

Planned Upgrades

Northwind Traders plans to upgrade all physical servers to Windows Server 2012 R2 and all System Center 2012 components to System Center 2012 R2. Administrators also plan to add all of the System Center 2012 R2 components that are NOT deployed already.

Planned Development

Northwind Traders plans to deploy seven new servers to the New York data center. The servers will be configured as shown in the following table.

Server name	Role
SCOM01	Operations Manager server
DPM01	Data Protection Manager (DPM) server that will use SQL05 as a database server and a report server
SCAPP01	App Controller server
SCCM01	Configuration Manager server
SQL03	SQL Server 2012 SP1 server that has the Database Engine, SQL Server Integration Services (SSIS), and SQL Server Reporting Services (SSRS) installed
SQL04	SQL Server 2012 SP1 server that has the Database Engine, SQL Server Analysis Services (SSAS), and SQL Server Integration Services (SSIS) installed
SQL05	SQL Server 2012 SP1 server that has the Database Engine and SQL Server Reporting Services (SSRS) installed

All of the SQL Server servers will use the default instances.

Northwind Traders plans to move all of the virtual machines on the Hyper-V hosts to four new private clouds named IT, Sales, Finance, and Corporate. The Hyper-V hosts in the IT private cloud will have their network adapters configured by using logical switches.

After the planned implementation of System Center 2012 R2, the administrators plan to deploy the Service Manager Self-Service Portal.

The administrators also plan to integrate System Center and Windows Azure.

The company's developers recently developed an order management application that contains a web application and a Windows service. The Windows service accesses a database. You use Server Application Virtualization (Server App-V) packages to deploy the web application and the Windows service. You use a SQL Server dedicated administrator connection (DAC) package to deploy the database.

Requirements

General Requirements

Northwind Traders plans to:

- Reuse existing servers whenever possible.
- Minimize the development of custom code.
- Minimize the numbers of components for any solution.
- Minimize the amount of permissions assigned to users.
- Minimize the amount of administrative effort whenever possible.

System Center Requirements

Northwind Traders must meet the following requirements:

- VMM must be able to use the storage on ST01 and ST02.

- Users must be able to access the Service Manager Self-Service Portal.
- The servers in the Miami office must be monitored by using Operations Manager.
- The order management application must be deployed by using a service template.
- Users of the Corporate private cloud must be able to copy their virtual machines to Windows Azure.
- The Service Manager Self-Service Portal and the SharePoint Server 2010 infrastructure must be integrated.
- The NIC teaming mode for network adapters must be the same on all of the Hyper-V hosts in the IT private cloud.
- The operational database and the data warehouse database used by Operations Manager must be on separate servers.
- Each virtual machine created in the Sales private cloud must be limited to four virtual CPUs and eight GB of memory.
- The data collected from all of the monitored servers must reside in the same database in the northwindtraders.com forest.

Question: 1

You need to ensure that you can upgrade VMM on SCVMM01.

Which three actions should you perform? Each correct answer presents part of the solution.

- A. Install Windows Server 2012 R2.
- B. Upgrade Microsoft .NET Framework
- C. Uninstall the VMM management server.
- D. Uninstall the Virtual Machine Manager console.
- E. Upgrade Windows Assessment and Deployment Kit (Windows ADK).

Answer: C, D, E

Question: 2

You need to recommend network fabric configurations for the planned deployment of VMM.

What should you include in the recommendation?

- A. A virtual switch extension manager
- B. A Hyper-V port profile for virtual network adapters
- C. A port classification
- D. A Hyper-V port profile for uplinks

Answer: B

Explanation:

Note:

/The Hyper-V hosts in the IT private cloud will have their network adapters configured by using logical switches.
In Virtual Machine Manager (VMM) in System Center 2012 Service Pack 1 (SP1) or System Center 2012 R2, you can

consistently configure identical capabilities for network adapters across multiple hosts by using port profiles and logical switches. Port profiles and logical switches act as containers for the properties or capabilities that you want your network adapters to have. Instead of configuring individual properties or capabilities for each network adapter, you can specify the capabilities in port profiles and logical switches, which you can then apply to the appropriate adapters.

Reference: <http://technet.microsoft.com/en-us/library/jj721570.aspx>

Question: 3

DRAG DROP

After the planned implementation of System Center 2012 R2, you need to configure the integration with Windows Azure.

What should you do? To answer, drag the appropriate actions to the correct components. Each action may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Actions	Answer Area
Add a subscription.	App Controller portal: <input type="text"/>
Add a service template.	Action <input type="text"/>
Configure a virtual machine path.	Virtual Machine Manager console: <input type="text"/>
Configure a stored virtual machine path.	Action <input type="text"/>
...	...

Answer:

App Controller portal:	Add a subscription.
Virtual Machine Manager console:	Configure a stored virtual machine path.

Question: 4

DRAG DROP

You create a service template for the order management application.

You need to configure the compatibility settings for the application profiles used in the virtual machine templates.

Which compatibility setting should you use for each application profile? To answer, drag the appropriate compatibility settings to the correct application profiles. Each compatibility setting may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Compatibility settings	Answer Area
General	Web application: <input type="text"/> Compatibility setting <input type="text"/>
SQL Server Application Host	Windows service: <input type="text"/> Compatibility setting <input type="text"/>
Web Application Host	...

Answer:

Web application: **General**

Windows service: **General**

Question: 5

You need to recommend which type of profile should be assigned to the Sales private cloud.
What should you recommend?

- A. Physical Computer
- B. Capability
- C. Hardware
- D. Guest OS

Answer: C

Explanation/Reference:

Each virtual machine created in the Sales private cloud must be limited to four virtual CPUs and eight GB of memory.

Question: 6

DRAG DROP

You are planning the deployment of Operations Manager. Operations Manager will be deployed before DPM. You plan to put the operational database on SQL03.

You need to identify which SQL Server servers must be used for the Operations Manager deployment.
Which server should host each database component for the Operations Manager deployment? To answer, drag the appropriate servers to the correct components. Each server may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Servers	Answer Area
SQL03	Data warehouse database: <input type="button" value="Server"/>
SQL04	Report server: <input type="button" value="Server"/>
SQL05	

Answer:

Data warehouse database: SQL04

Report Server: SQL04

Question: 7

You need to configure VMM to meet the storage requirements after the planned upgrade of VMM to System Center 2012 R2.

What should you add?

- A. Storage providers and storage devices
- B. Logical units and logical switches
- C. Storage providers and logical units
- D. Logical switches and virtual hard disks (VHDs)

Answer: C

Question: 8

You need to recommend a solution for monitoring the servers in the Miami office.

What is the best recommendation for the Miami office? More than one answer choice may achieve the goal. Select the BEST answer.

- A. A management server that is part of the contoso.com domain
- B. A gateway server that is part of the northwindtraders.com domain
- C. A management server that is part of the northwindtraders.com domain
- D. A gateway server that is part of the contoso.com domain

Answer: D

Question: 9

You need to implement the Service Manager Self-Service Portal.

What should you do?

- A. Install the web content server on SCSM01. Install the SharePoint Server Web Parts on APP01.
- B. Install the web content server and the SharePoint Server Web Parts on SCSM01.
- C. Install the web content server on WEB01. Install the SharePoint Server Web Parts on WFE01.
- D. Install the web content server and the SharePoint Server Web Parts on WEB01.

Answer: C

Explanation:

Note:

SharePoint Server 2010 is required so the SharePoint Server Web Parts should be installed on WFE01.

Case Study: 3

Litware, Inc

Overview

Litware, Inc. is a pharmaceutical company.

Litware has an office in Montreal. Litware has a marketing department and a research department.

Existing Environment

Network Infrastructure

The network contains a single Active Directory domain named litwareinc.com. The domain contains 1,000 physical servers that run Windows Server 2008 R2.

All of the servers are located in a leased data center that has a high-bandwidth, low-latency network. The data center contains third-party iSCSI SAN storage devices that support an SMI-S provider.

Application Infrastructure

Users in the research department use multiple instances of a three-tier application named Appl. Appl consists of the components shown in the following table.

Tier	Number of servers	Role
Tier 1	2	Load-balanced connection point
Tier 2	1	Business logic handler
Tier 3	2	Backend data store

The Web Server (IIS) server role, WMI providers, Windows services, Windows drivers, and web applications will be installed on the servers that host Tier 2.

Problem Statements

Litware identifies the following issues:

- The cost of leasing data center space is increasing steadily.
- The research department users report that it takes too long to provision new instances of Appl.

Requirements

Planned Changes

Litware plans to deploy 400 additional servers that will run Windows Server 2008 R2. The servers will be configured as shown in the following table.

Number of servers	Role	Feature	Department
200	Hyper-V	Failover Clustering	Research
50	Hyper-V	None	Research
100	Hyper-V	Failover Clustering	Marketing
50	Hyper-V	None	Marketing

Litware also plans to deploy the following System Center 2012 components:

- Orchestrator
- App Controller
- Service Manager
- Operations Manager
- Data Protection Manager (DPM)
- Virtualization Machine Manager (VMM)

Litware plans to provide the research department users with the ability to deploy instances of App1.

Private Cloud Infrastructure Requirements

Litware identifies the following requirements for the planned private cloud infrastructure:

- VMM must be available if a server or a service fails.
- Virtual machines must be provisioned by using SAN copy cloning.
- The implementation of App Controller must support single sign-on.
- The implementation of Service Manager must support French and English.

- The implementation of VMM must support the provisioning of virtual machines by using SAN copy.
- Virtual machines hosted on Hyper-V failover clusters must remain available during the installation of Windows updates.
- Physical servers that have workloads that are suitable for a virtualized environment must be virtualized. Performance data must be taken into account when identifying which servers must be virtualized.

Private Cloud Integration Requirements

Litware identifies the following requirements for integrating the System Center 2012 components:

- Incidents in Service Manager must be resolved automatically, whenever possible.
- Alerts generated by Operations Manager must trigger incidents in Service Manager.
- Operations Manager alerts triggered by VMM events must be remediated automatically, whenever possible.
- All of the Orchestrator components responsible for executing the activities of Service Manager workflows must be highly available.

Private Cloud Services Requirements

Litware identifies the following requirements for managing services in the private cloud:

- App1 must be deployed by using a VMM service template.
- The Tier 2 of App1 must be deployed as a highly available virtual machine.
- The research department users must use App Controller to deploy virtual machines and services.
- The virtual machines deployed by the research department users must be hosted on servers in the research department.
- The virtual machines in Tier 1 of App1 must be configured as cluster nodes by using the Network Load Balancing (NLB) feature.
- A web application named WA1 in Tier 2 of App1 must use a connection string that points to a Microsoft SQL Server database in Tier 3 of App1.
- The software components included in Tier 2 of App1 must be deployed as Microsoft Server Application Virtualization (Server App-V) packages, whenever possible.

Question: 1

HOTSPOT

You need to recommend which configuration meets the high-availability requirement for the Orchestrator components. The solution must meet the requirements for integrating the System Center 2012 components.

What should you recommend? (To answer, select the appropriate high availability configuration for each component in the answer area.)

Answer Area

The Orchestrator database:

The Orchestrator web service:

The runbook server:

Answer Area

The Orchestrator database:

Failover Clustering
Highly available virtual machine
Network Load Balancing

The Orchestrator web service:

Failover Clustering
Highly available virtual machine
Network Load Balancing

The runbook server:

Failover Clustering
Highly available virtual machine
Network Load Balancing

Answer:

Answer Area

The Orchestrator database:

Failover Clustering
Highly available virtual machine
Network Load Balancing

The Orchestrator web service:

Failover Clustering
Highly available virtual machine
Network Load Balancing

The runbook server:

Failover Clustering
Highly available virtual machine
Network Load Balancing

Question: 2

You need to recommend a configuration for the App Controller portal. The solution must meet the requirements for the planned private cloud infrastructure.

What should you include in the recommendation?

- A. Create an App Controller user role.
- B. Configure constrained delegation for the VMM computer account.

- C. Configure constrained delegation for the App Controller computer account.
- D. Create an App Controller subscription.

Answer: C

Question: 3

DRAG DROP

You need to recommend a storage fabric configuration for VMM. The solution must meet the requirements for the planned private cloud infrastructure.

Which three actions should you recommend performing in sequence? (To answer, move the appropriate three actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer Area
Configure a storage array.	
Install the Microsoft iSCSI Software Target component.	
Allocate a storage pool to a host group.	
Add a storage device.	
Configure the iSCSI initiator.	

Answer:

Box 1: Configure the iSCSI initiator.

Box 2: Add a storage device.

Box 3: Allocate a storage pool to a host group.

Note:

Box 1: Configure the iSCSI initiator on the VMM server to connect to the SAN.

Box 2: Add a storage device (using the Add Storage Devices Wizard) to add the SAN as available storage.

Box 3: Allocate a storage pool to a host group.

Question: 4

You need to recommend a configuration for the VMM network fabric. The solution must meet the requirements for managing services in the private cloud.

What should you include in the recommendation?

- A. Disable the Logical network matching setting.
- B. Disable the Automatic creation of virtual networks setting.
- C. Create a virtual IP (VIP) template.
- D. Create a hardware load balancer.

Answer: C

Explanation:

How to Create VIP Templates for Network Load Balancing (NLB) in VMM:

Reference: <http://technet.microsoft.com/en-us/library/hh335100.aspx>

Question: 5

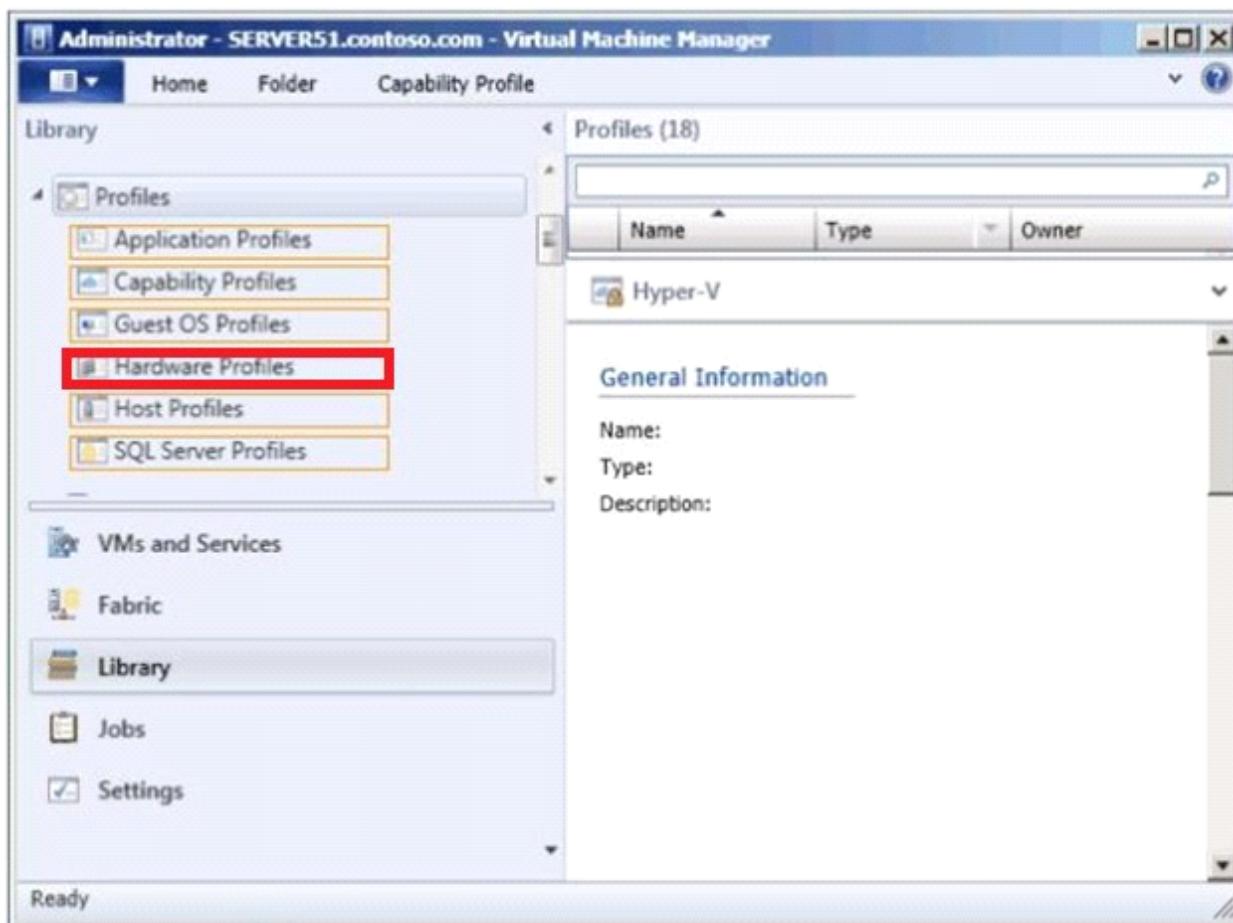
HOTSPOT

You need to identify which profile type must be used to ensure that Tier 2 of App1 can be deployed as a highly available virtual machine.

Which profile type should you identify? (To answer, select the appropriate profile type in the answer area.)

The screenshot shows the Microsoft Virtual Machine Manager interface. The title bar reads "Administrator - SERVER51.contoso.com - Virtual Machine Manager". The main menu includes "Home", "Folder", and "Capability Profile". The left sidebar has sections for "Library" (Profiles, VMs and Services, Fabric, Library, Jobs, Settings) and "Ready". The "Profiles" section is expanded, showing sub-options: Application Profiles, Capability Profiles, Guest OS Profiles, Hardware Profiles, Host Profiles, and SQL Server Profiles. The "Capability Profile" tab is selected. In the center pane, the title "Profiles (18)" is displayed above a table with columns "Name", "Type", and "Owner". A single row is visible, labeled "Hyper-V". Below the table, there is a "General Information" section with fields for "Name", "Type", and "Description".

Answer:



Question: 6

You need to identify which component or components of Tier 2 of App1 can be deployed by using Server App-V. Which component or components should you identify? (Each correct answer presents part of the solution. Choose all that apply.)

- A. The Web Server (IIS) server role
- B. Web applications
- C. Windows services
- D. WMI providers
- E. Drivers

Answer: B, C, D

Explanation:

Some of the features supported by Server App-V are the following:

Windows Services: Server App-V includes the possibility to virtualize Windows Services in a different approach than the one we've seen in Desktop App-V. With Server App-V, the service is installed and placed in the OS as a normal installation of the server application. This way we can monitor it as any local service.

Web applications hosted in IIS: We can virtualize web applications entirely (web sites, virtual directories and application pools) on IIS 6, IIS 7 and IIS 7.5.

WMI: Server App-V Sequencer also captures the WMI providers and/or classes created during an installation.

SQL Services Reporting Services: Even though SQL Server engine is not supported for virtualization, the applications that install SQL Services Reporting Services (SSRS) are supported.

COM/DCOM/COM+ objects: These components are registered in the deployment process, this way other applications in the server can access them.

Local users and Groups: If the application is creating users and/or groups during the installation, the Server App-V Sequencer captures it and maintains, including SID, for next deployments.

Not all applications are supported for use with Server App-V. Applications such as antivirus software that require device or kernel driver support are not supported. Server App-V is primarily designed for use with business applications or the business tiers of multi-tiered applications. Consequently some large server applications such as Microsoft Exchange Server, Microsoft SQL Server, and Microsoft SharePoint are not supported. While there is no list of supported applications for use with Server App-V, Server App-V has been optimized to create virtual application packages for applications with the following attributes:

State persisted to local disk

Microsoft Windows Services

Internet Information Services (IIS)

Registry

COM+ / DCOM

Text-based Configuration Files

WMI Providers

Microsoft SQL Server Reporting Services

Local Users and Groups

Scheduled Tasks

Microsoft SQL Server Databases

Question: 7

You need to recommend a configuration for the SQL Server instance that will host the Service Manager database.

The solution must meet the requirements for the planned private cloud infrastructure.

What should you include in the recommendation?

- A. Disable full-text search.
- B. Install the SQL Server Integration Services (SSIS).
- C. Enable case sensitivity.
- D. Change the default collation.

Answer: D

Explanation:

Note:

/The implementation of Service Manager must support French and English.

Question: 8

You need to recommend a solution to identify which servers should be virtualized.

What should you include in the recommendation? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Configuration Manager P2V Migration Toolkit
- B. Windows Assessment and Deployment Kit (Windows ADK)
- C. Microsoft System Center Advisor (SCA)
- D. Microsoft Assessment and Planning (MAP) Toolkit

Answer: D

Question: 9

You need to recommend a solution to control the provisioning of the virtual machines by the research department users. The solution must meet the requirements for managing services in the private cloud.

What should you include in the recommendation? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. VMM placement rules and Service Manager service offerings
- B. VMM custom properties and Orchestrator runbooks
- C. VMM placement rules and capability profiles
- D. A separate VMM cloud for the research department users

Answer: C

Explanation:

The Research department contains clustered Hyper-V hosts and standalone Hyper-V hosts. When research users deploy an instance of App1, the VMs in App1 must be highly available. Therefore, they must be deployed to the clustered Hyper-V hosts. A capability profile can specify that a VM must be highly available and a placement rule can ensure it is deployed to clustered Hyper-V hosts. A private cloud including the standalone Hyper-V hosts would not ensure this.

Question: 10

You need to recommend a solution to configure the SQL Server connection strings of WA1. The solution must meet the requirements for managing services in the private cloud.

What should you recommend? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Create multiple application profiles.
- B. Create multiple App1 service templates.
- C. Configure the Custom Properties of the App1 service template.
- D. Configure the Service Settings of the App1 service template.

Answer: D

Question: 11

You need to recommend the method for installing VMM. The solution must meet the requirements for the planned private cloud infrastructure.

What should you recommend?

- A. Implement two non-clustered Hyper-V hosts and install an instance of VMM on a virtual machine on each Hyper-V host.
- B. Install VMM as a highly available virtual machine on a Hyper-V failover cluster.
- C. Implement a Hyper-V NLB cluster and install an instance of VMM on each cluster.
- D. Install VMM as a clustered service on a Hyper-V failover cluster.

Answer: D

Question: 12

You need to recommend a patching solution for the VMM infrastructure. The solution must meet the requirements for the planned private cloud infrastructure.

What should you recommend? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Cluster-Aware Updating (CAU)
- B. A Service Manager workflow
- C. An Orchestrator runbook
- D. VMM update remediation

Answer: D

Explanation:

Reference:

<http://technet.microsoft.com/en-us/library/gg675088.aspx>

Incorrect:

Not A. Cluster-Aware Updating (CAU) requires Windows Server 2012. The servers in this scenario are running Windows Server 2008 R2.

Question: 13

DRAG DROP

You need to recommend which actions must be performed to integrate the private cloud components. The solution must meet the private cloud integration requirements.

From which System Center 2012 component should you perform each action? (To answer, drag the appropriate components to the correct actions. Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Components	Answer Area	
Operations Manager	Configure the Alert Sync internal connector.	Component
Orchestrator Runbook Designer	Enable the connection to Operations Manager.	Component
Service Manager	Install the Service Manager integration pack, the Operations Manager integration pack, and the Virtual Machine Manager integration pack.	Component
Virtual Machine Manager	Create an Operations Manager alert connector, an Operations Manager configuration item (C1) connector, a VMM connector, and an Orchestrator connector.	Component

Answer:

Configure the Alert Sync internal connector.

Operations Manager

Enable the connection to Operations Manager.

Virtual Machine Manager

Install the Service Manager integration pack, the Operations Manager integration pack, and the Virtual Machine Manager integration pack.

Orchestrator Runbook Designer

Create an Operations Manager alert connector, an Operations Manager configuration item (C1) connector, a VMM connector, and an Orchestrator connector.

Service Manager

Case Study: 4 **Trey Research** **Overview**

Trey Research is a consulting company.

Trey Research has three offices. The offices are located in Seattle, Los Angeles, and Toronto.

Trey Research has two data centers. The data centers are located in Los Angeles and Toronto.

Existing Environment

The network contains a single-domain Active Directory forest named `treyresearch.com`. The network contains switches that support either SNMPv1 or SNMPv2.

The forest contains 100 physical servers that run Windows Server 2008 R2 Service Pack 1 (SP1). The relevant servers are configured as shown in the following table.

Server name	Role
Server1	System Center 2012 Virtual Machine Manager (VMM)
Server2	System Center 2012 Operations Manager
Server3	DHCP server
Server4	Windows Server Update Services (WSUS) server
Server5	Microsoft SQL Server 2008 R2
Server6	Member server
Server7	Member server
Server8	Member server
Server9	System Center Virtual Machine Manager (VMM) 2008 R2 Service Pack 1 (SP1) that has Microsoft SQL Server Express installed locally

All of the System Center 2012 servers use Server5 as a database server.

All of the VMM components in the production environment are installed on Server1. Server1 is located in the Los Angeles data center.

Ten virtual machine hosts are located in the Toronto data center and 90 virtual machine hosts are located in

the Los Angeles data center.

Server9 is used to manage three virtualization hosts in a lab environment.

Requirements

Planned Changes

Trey Research plans to implement the following changes:

- Upgrade Server9 to VMM 2012.
- Discover and monitor network switches by using Operations Manager.
- Grant the network technicians the required permissions to configure the network fabric.
- Install a System Center 2012 Service Manager management server on Server7 and a Service Manager data warehouse management server on Server8.
- Provide external access to the Virtual Machine Manager Self-Service Portal (VMMSSP) by using the names ssp.treyresearch.com and vmm.treyresearch.com.

Private Cloud Infrastructure Requirements

Trey Research identifies the following requirements for the private cloud infrastructure:

- Integrate VMM 2012 and Operations Manager 2012.
- Ensure that all VMM 2012 components are highly available.
- Ensure that virtual machines use a MAC address from a custom MAC address pool.
- Ensure that Hyper-V hosts can be deployed to bare-metal computers from Server6.
- Control the placement of virtual machines based on the performance data gathered by Operations Manager.

Private Cloud Compliance Requirements

Trey Research identifies the following requirements for compliance in the private cloud infrastructure:

- Ensure that updates on the Hyper-V hosts can be remediated.
- Generate the compliance status of all the servers in the fabric
- Ensure that update baselines for all of the servers in the fabric are created.

Private Cloud Services Requirements

Trey Research identifies the following requirements for managing services in the private cloud:

- Users in the human resources department must be able to create virtual machines that have two CPUs and 4 GB RAM by using the VMMSSP.
- Users in the marketing department must be able to create new virtual machines that will be hosted in the Toronto office. The virtual machine templates for the marketing department users must be stored in the Toronto office.

Question: 1

HOTSPOT

You need to prepare the environment to support the placement of virtual machines based on the performance of the hosts. The solution must meet the requirements for the private cloud infrastructure.

What should you do on each server before you configure the connection between VMM 2012 and Operations Manager 2012? (To answer, select the appropriate action for each server in the answer area.)

Server1:

Import management packs.
Install configuration providers.
Install the Operations Manager Operations console.

Server2:

Import management packs.
Install configuration providers.
Install the Virtual Machine Manager console.

Answer:

Server1:

Import management packs.
Install configuration providers.
Install the Operations Manager Operations console.

Server2:

Import management packs.
Install configuration providers.
Install the Virtual Machine Manager console.

Question: 2

You need to implement the planned changes for the network technicians.
What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Create a Run As Account.
- B. Create a classification.
- C. Deploy System Center 2012 App Controller.
- D. Deploy the VMM console.
- E. Create a user role.

Answer: A, D

Question: 3

You need to configure the environment to meet the requirements for private cloud compliance.
What should you do first on Server1?

- A. Create a Data Collector Set (DCS).
- B. Install the Network Policy and Access Services server role.
- C. Install the WSUS Administration console.

D. Configure the Audit Collection Services (ACS).

Answer: C

Question: 4

DRAG DROP

You need to identify which MAC address pool must be used to meet the requirements for the private cloud infrastructure.

How should you configure the address pool for the private cloud? (To answer, drag the appropriate MAC addresses to the correct location. Each MAC address may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

MAC Addresses	Answer Area
00-00-00-15-00-00	Starting MAC address: <input type="text"/>
00-15-00-00-00-00	Ending MAC address: <input type="text"/>
00-15-00-30-00-00	
00-15-30-00-00-00	
00-16-00-00-00-00	

Answer:

Starting MAC address:

Ending MAC address:

Explanation:

Note:

The first three octets of the beginning and ending MAC address must be the same.

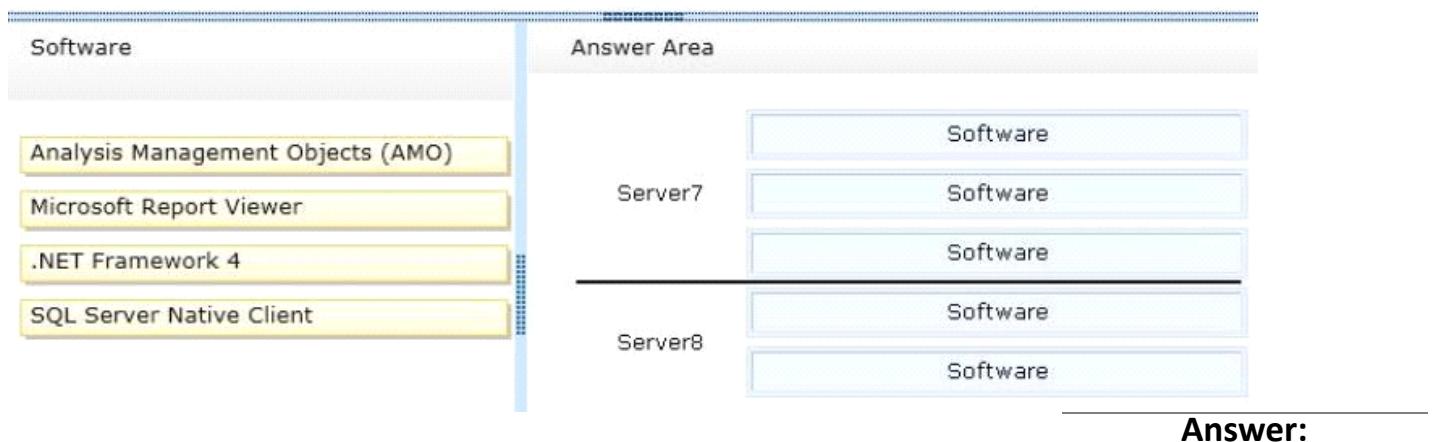
Question: 5

DRAG DROP

You install Microsoft .NET Framework 3.5.1 on Server7 and Server8.

You need to implement the planned changes for Server7 and Server8.

Which prerequisites should you install on Server7 and Server8 first? (To answer, drag the appropriate software to the correct servers. Each software may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)



Answer:

Server 7:

Box 1:

SQL Server Native Client

Box 2:

Analysis Management Objects (AMO)

Box 3:

Microsoft Report Viewer

Server 8:

Box 1:

SQL Server Native Client

Box 2.

Analysis Management Objects (AMO)

Explanation:

CORRECT ANSWER:

Server7 - Install a System Center 2012 Service Manager management server.

Software Requirements:

- 1) ADO.NET Data Services Update for .NET Framework 3.5 SP1 for Windows Server 2008 R2
- 2) SQL Server 2008 R2 Native Client or SQL Server 2012 Native client
- 3) Microsoft Report Viewer Redistributable.

Server8 - Service Manager data warehouse management server

Software Requirements:

- 1) SQL Server 2008 R2 Native Client or SQL Server 2012 Native client

<http://technet.microsoft.com/en-US/library/jj628197.aspx>

Additional software requirements for System Center 2012 – Service Manager include the following:

Windows PowerShell 2.0

SQL Server Analysis Services (SSAS)

SQL Server 2008 R2 Native Client

ADO.NET Data Services Update for .NET Framework 3.5 SP1

Microsoft Analysis Management Objects (AMOs)

Microsoft Silverlight 4

Microsoft .NET Framework 4

Question: 6

You need to configure VMM 2012 to meet the private cloud services requirements for the human resources department users.

What should you configure? (Each correct answer presents part of the solution. Choose all that apply.)

- A. A cloud
- B. A capability profile
- C. A user role
- D. A virtual machine template
- E. A service template

Answer: A, B, C, D

Explanation:

As of VMM in System Center 2012, self-service users deploy their virtual machines and services to private clouds. This is a change from earlier versions of VMM, in which self-service user roles are assigned host groups, and virtual machines are deployed automatically (and transparently) to the most suitable host in the host group. A private cloud consists of one or more host groups that provide computing capacity and disk resources to self-service user roles. A private cloud can be assigned to multiple self-service user roles.

Reference: <http://technet.microsoft.com/en-us/library/gg610573.aspx>

Question: 7

You need to deploy Hyper-V hosts to meet the requirements for the private cloud infrastructure.

What should you install on Server6?

- A. Windows Deployment Services (WDS)
- B. Windows Assessment and Deployment Kit (Windows ADK)
- C. Microsoft Deployment Toolkit (MDT)
- D. Windows Automated Installation Kit (Windows AIK)

Answer: A

Question: 8

HOTSPOT

You need to implement the planned changes for Operations Manager.

Which Run As Account type should you use? (To answer, select the appropriate Run As Account for each switch type in the answer area.)

Switches that use SNMPv1:



Switches that use SNMPv2:



Switches that use SNMPv1:



Switches that use SNMPv2:



Answer:

Question: 9

You need to recommend a solution to meet the private cloud services requirements for the marketing department users.

What should you recommend deploying to the Toronto data center?

- A. The VMMSSP
- B. A virtual machine host that runs Windows Server 2012
- C. A VMM management server
- D. A VMM library server

Answer: D

Explanation:

The library contains files stored on library shares, and it contains operating system, hardware, and template configurations stored in the VMM database.

Reference:

<http://technet.microsoft.com/en-us/library/bb963732.aspx>

Question: 10

You need to implement the planned changes for the VMMSSP.

What should you do?

- A. From the Services console, modify the properties of World Wide Web Publishing Service.
- B. From Internet Information Services (IIS) Manager, modify the web site bindings.
- C. From the Virtual Machine Manager console, modify the Network Settings.
- D. From the Microsoft System Center Virtual Machine Manager 2012 Setup Wizard, click the Install option.

Answer: D

Explanation:

Installing the VMM Self-Service Portal. Existing environment doesn't have VMMSSP yet.

Reference:

<http://technet.microsoft.com/en-us/library/bb740747.aspx>

Question: 11

You need to recommend a solution to meet the high-availability requirements for VMM 2012.

What should you include in the recommendation?

- A. Install Network Load Balancing (NLB) on Servers.
- B. Split the VMM roles between separate servers.
- C. Store all of the VMM templates in a Distributed File System (DFS) namespace.
- D. Install Failover Clustering and Network Load Balancing (NLB) on Server1.

Answer: B

Question: 12

You need to recommend changes to Server9 before you upgrade to VMM 2012.

What should you include in the recommendation?

- A. Upgrade Server9 to Windows Server 2012.
- B. Install the Windows Assessment and Deployment Kit (Windows ADK).
- C. Install Microsoft .NET Framework 4.
- D. Install SQL Server 2008 R2 Service Pack 1 (SP1) Standard on Server9.

Answer: D

Case Study: 5 Proseware, Inc Overview

Proseware, Inc. is an international publishing company.

Proseware has four data centers and 80 offices. The data centers are located in Dallas, Dublin, Bangalore, and Sydney. The offices are located worldwide.

Existing Environment

Network Infrastructure

The network contains a single-domain Active Directory forest named proseware.com.

Each server has a Baseboard Management Controller (BMC) installed.

Database administrators in the Bangalore data center manage all of the SQL Server servers in the data centers.

Dublin Data Center

The Dublin data center contains two servers. The servers are configured as shown in the following table.

Server name	Operating system	Role
DublinOM1	Windows Server 2008 Service Pack 2 (SP2) x86	<ul style="list-style-type: none">• System Center Operations Manager 2007 R2• Root management server for a management group named DublinMG
DublinSQL1	Windows Server 2008 Service Pack 2 (SP2) x64	<ul style="list-style-type: none">• 64-bit version of Microsoft SQL Server 2008 Service Pack 2 (SP2)• Database server for DublinOM1

Operations Manager 2007 R2 agents are installed on all of the servers in the Dublin data center by using the push installation method.

App1

Proseware uses a critical business application named App1. Multiple instances of App1 are deployed to each data center.

Each instance of App1 consists of the following physical servers that run Windows Server 2012:

- A database server that runs SQL Server 2008 R2.
- Two web servers that are load balanced by using the Network Load Balancing (NLB) feature. Each web server has a single network adapter.

New versions of App1 are released at least four times a year.

When a new version of App1 is released, all of the servers in App1 must be redeployed.

Requirements

Planned Changes

Proseware plans to deploy all System Center 2012 components.

Proseware plans to implement the following changes in each data center:

- Deploy a SQL Server 2008 R2 Enterprise failover cluster.
- Store all virtual machine data in a Fibre Channel SAN infrastructure.
- Deploy a highly available Virtual Machine Manager (VMM) environment.

- Deploy one physical server that has Data Protection Manager (DPM) deployed.

Technical Requirements

Proseware identifies the following technical requirements for the implementation of a private cloud:

- All Hyper-V hosts must be added to a failover cluster automatically.
- The deployment of Hyper-V hosts to each data center must be automated.
- The implementation of the DPM infrastructure must meet the following requirements:
 - Backups will be stored on an iSCSI SAN.
 - Virtual machines in a running state must be backed up from their respective host. Administrators must be able to restore individual files from host backups on virtual machines configured as file servers.
- The implementation of the Operations Manager 2012 infrastructure must meet the following requirements:
 - Operations Manager monitoring must not be affected if a single server fails.
 - Existing data must be retained in the Operations Manager 2012 infrastructure.
 - Existing agents must continue to report to Operations Manager during the upgrade process.
 - All Operations Manager agents must report to a local management server in their respective data center.
 - The service desk in the Dublin data center must be able to view the status of the servers in all of the data centers.

Administrative Requirements

Proseware identifies the following administrative requirements:

- An administrator must be notified when an error occurs on a server.
- An administrator must be able to assign errors to specific administrators for resolution.
- Errors that remain unresolved for more than 10 hours must be escalated automatically to another administrator.

Planned Virtual Machines

The servers in each instance of App1 will be replaced with a set of virtual machines. The planned changes must meet the following requirements:

- Each instance must be redeployed when a new version of App1 is released.
- Each instance of App1 must be installed by using the minimum amount of administrative effort.

App2

An application named App2 is hosted on the virtual machines in a Windows Azure public cloud infrastructure.

The performance and availability of the components of App2 must be monitored centrally. Administrators must be able to modify the configurations of the App2 components.

App3

A service template will be used to deploy multiple instances of a multi-tier application named App3. The vendor of App3 will provide updates to App3 every two months.

SQL Server Deployment Requirements

VMM administrators plan to deploy many virtual machines that have SQL Server deployed. The administrators identify the following deployment options for the virtual machines:

- The virtual machines will host databases that will be created by using data-tier application (DAC) packages.
- The virtual machines will have SQL Server 2008 R2 Standard deployed by using one of six different configurations.
- The operating system for the virtual machines will be either Windows Server 2008 R2 Enterprise or Windows Server 2008 R2 Standard.

Question: 1

You need to recommend a design for the Operations Manager 2012 infrastructure.

What should you include in the recommendation? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A.
 - In the Dublin data center, one local management group that contains two management servers.
 - In each of the data centers in Dublin, Bangalore, Dallas, and Sydney, one remote management group that contains two management servers.
- B.
 - One management group that contains all of the management servers.
 - One resource pool that contains all of the management servers.
- C.
 - In the Dublin data center, one connected management group that contains two management servers.
 - In each of the data centers in Bangalore, Dallas, and Sydney, one local management group that contains two management servers.
- D.
 - In the Dublin data center, one local management group that contains two management servers.
 - In each of the data centers in Bangalore, Dallas, and Sydney, one connected management group that contains two management servers.

Answer: D

Question: 2

You need to recommend which network configuration or configurations are required for the virtual web servers for each instance of App1.

Which configuration or configurations should you recommend? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Dynamic IP
- B. Enable spoofing of MAC addresses
- C. Dynamic MAC Address
- D. Static IP
- E. Static MAC Address

Answer: B, D, E

Question: 3

DRAG DROP

You need to recommend a solution to meet the requirements for App2.

What should you recommend? (To answer, drag the appropriate actions to the correct components. Each action may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Actions	Answer Area	
Create a service template for App2.	App Controller:	Action
Connect to a Windows Azure subscription.	Operations Manager:	Action
Initialize the Windows Azure diagnostic monitor.	Windows Azure:	Action
Install the System Center Global Service Monitor Management Packs.		

Answer:

App Controller:	Connect to a Windows Azure subscription.
Operations Manager:	Install the System Center Global Service Monitor Management Packs.
Windows Azure:	Initialize the Windows Azure diagnostic monitor.

Question: 4**DRAG DROP**

You need to recommend a method to upgrade DublinMG to Operations Manager 2012.

Which three actions should you perform in sequence? (To answer, move the appropriate three actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer Area
Upgrade DublinSQL1 to Windows Server 2008 R2 and SQL Server 2008 R2.	
Perform a new installation of System Center 2012 Operations Manager on a server that runs Windows Server 2008 R2 Service Pack 1 (SP1).	
Change the primary management server of all the Operations Manager agents.	
Deploy a System Center Operations Manager 2007 R2 secondary management server to a server that runs Windows Server 2008 R2 Service Pack 1 (SP1).	
Upgrade a secondary management server to System Center 2012 Operations Manager.	
Upgrade DublinOM1 to System Center 2012 Operations Manager.	

Answer:

Box 1:

Deploy a System Center Operations Manager 2007 R2 secondary management server to a server that runs Windows Server 2008 R2 Service Pack 1 (SP1).

Box 2:

Change the primary management server of all the Operations Manager agents.

Box 3:

Upgrade a secondary management server to System Center 2012 Operations Manager.

Explanation:

Note:

DublinOM1 is an x86 server so we can't upgrade it to SCOM 2012. So we need to deploy a secondary server (x64). You upgrade your System Center Operations Manager 2007 R2 management group to System Center 2012 – Operations Manager from a secondary management server when the computer hosting the Operations Manager 2007 R2 root management server (RMS) does not meet the minimum supported configurations for System Center 2012 – Operations Manager. You must first move the agents over to the secondary management server and gateway servers.

Reference: <http://technet.microsoft.com/en-us/library/hh241291.aspx>

Question: 5

You need to recommend a solution to ensure that the database administrators can install, stop, start, and remotely control all of the virtual machines that run SQL Server from a single self-service console.

What should you include in the recommendation?

- A. Virtual Machine Manager Self-Service Portal (VMMSSP) 2.0
- B. Service Manager Self-Service Portal
- C. System Center 2012 App Controller
- D. Virtual Machine Manager Self-Service Portal (VMMSSP)

Answer: C

Question: 6

You need to configure connectors between the System Center 2012 components to meet the administrative requirements. Between which System Center 2012 components should you configure the connectors?

- A. Operations Manager and Orchestrator
- B. Service Manager and VMM
- C. Operations Manager and Service Manager
- D. Configuration Manager and Service Manager

Answer: C

Question: 7

You need to recommend a solution to deploy a complete instance of App1 when a new version of App1 is released. What should you include in the recommendation?

- A. A service template
- B. A virtual machine template
- C. A web deployment package
- D. A Microsoft Application Virtualization (App-V) package

Answer: A

Explanation:

Reference: <http://technet.microsoft.com/en-us/library/gg675106.aspx>
<http://technet.microsoft.com/en-us/library/gg675089.aspx>

Question: 8

You need to implement the planned deployment of a VMM management server in each data center. Where should you deploy each VMM management server? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. On the servers in the two-node NLB cluster
- B. On the servers in the two-node failover cluster
- C. On two independent servers that connect to a hardware load balancer
- D. On a highly available virtual machine

Answer: B

Question: 9

You need to recommend a solution to deploy the Hyper-V hosts. The solution must meet the technical requirements. Which System Center 2012 product should you include in the recommendation? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Virtual Machine Manager
- B. Orchestrator
- C. App Controller
- D. Configuration Manager

Answer: A

Question: 10

HOTSPOT

You are planning to create templates for the deployment of SQL Server.

You need to identify the minimum number of SQL Server profiles and application profiles required to meet the SQL Server deployment requirements. The solution must minimize the amount of administrative effort required to create the virtual machine templates for the planned deployment.

What should you identify? (To answer, select the appropriate number of SQL Server profiles and application profiles in the answer area.)

SQL Server profiles:

0
1
2
3
4
5
6
7
8

Application profiles:

0
1
2
3
4
5
6
7
8

Answer:

Box 1: 6

Box 2: 2

Question: 11

You need to recommend a solution to install updates for App3 once App3 is deployed.

What should you recommend? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Sequence the new components of App3 as a Microsoft Application Virtualization (App-V) package. Deploy the App-V package to all of the servers that run App3.
- B. Create a collection that contains all of the servers that run App3. Create an application to deploy the updates for App3. Deploy the application to the collection.
- C. Create a new version of the existing service template, and then modify the new service template. Apply the template to the existing instances of App3.
- D. Create a runbook to deploy the updates to App3. Launch the runbook from a service request.

Answer: C

Explanation:

App3 was deployed using a service template. It should be updated using a service template.

To apply updates to a deployed service by using an updated service template
In the VMs and Service workspace, select the service that you want to update with the updated service template.
On the Service tab, in the Update group, click Set Template.
In the Change Service Template wizard, on the Updated Service Template page, select Replace the current template with an updated template for this service.
Click Browse, select the updated service template, click OK, and then click Next.
On the Settings page, configure any application settings that are listed, and then click Next.
On the Update Method page, select whether you want to make the updates in-place to the existing virtual machines or whether you want to deploy new virtual machines with the updated settings, and then click Next.
Reference: <http://technet.microsoft.com/en-us/library/gg675106.aspx>

Question: 12

You need to recommend which configurations must be performed to meet the backup requirements for Hyper-V.
What should you recommend? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A.
 - Configure the iSCSI initiator on the DPM server and on the Hyper-V hosts.
 - Install the DPM protection agent on the Hyper-V hosts only.
- B.
 - Install the Hyper-V server role on the DPM server.
 - Configure the iSCSI initiator on the DPM server and on the Hyper-V hosts.
 - Install the DPM protection agent on the Hyper-V hosts and on each virtual machine.
- C.
 - Configure the iSCSI initiator on the DPM server, on the Hyper-V hosts, and on each virtual machine.
 - Install the DPM protection agent on the Hyper-V hosts and on each virtual machine.
- D.
 - Install the Hyper-V server role on the DPM server.
 - Configure the iSCSI initiator on the DPM server only.
 - Install the DPM protection agent on the Hyper-V hosts only.

Answer: D

Case Study: 6

Fabrikam, Inc

Overview

Fabrikam, Inc. is an IT services and hosting provider.

Fabrikam has two main data centers. The data centers are located in New York and Montreal. The data centers connect to each other by using high-bandwidth, low latency WAN links. Each data center connects directly to the Internet.

Existing Environment

The network contains an Active Directory forest named fabrikam.com that is dedicated to hosting services. All of the servers in the forest run Windows Server 2012 R2.

The network contains a System Center 2012 R2 infrastructure that includes the following components:

- Windows Azure Pack for Windows Server
- Virtual Machine Manager (VMM)
- Service Provider Foundation
- Operations Manager

- Orchestrator

Fabrikam has implemented Hyper-V Network Virtualization in the hosting environment.

All storage is either SAN-based or direct-attached storage (DAS). All VMM library servers use DAS storage.

None of the VMM library servers are managed as VMM Hyper-V hosts.

Each Hyper-V host has four 10-GbE network adapters.

Requirements

Business Goals

Fabrikam plans to provide hosting services to two customers named Customer1 and Customer2. Customer1 is based in New York and Customer2 is based in Montreal. IT services will include assistance managing the services in the following table.

Service	Customer1	Customer2
Internal private cloud (System Center 2012 R2)	Yes	No
Fabrikam-hosted services	Yes	Yes
Windows Azure	Yes	No

The internal network of Customer1 contains a System Center 2012 R2 infrastructure that includes the following components:

- Operations Manager
- App Controller
- VMM

Customer1 plans to deploy multi-tier VMM services that run Internet Information Services (IIS), .NET applications, and Microsoft SQL Server. Customer1 plans to deploy non-clustered virtual machines only.

Planned Changes

Fabrikam plans to implement the following changes to the network:

- Deploy a Remote Desktop Gateway (RD Gateway) virtual machine.
- Replace the SAN by using iSCSI targets on servers that run Windows Server 2012 R2.

General Requirements

Fabrikam identifies the following requirements for the planned deployment:

- Hyper-V hosts must remain available if a single network adapter fails. You must be able to control the amount of bandwidth allocated to iSCSI traffic and Failover Clustering redirected traffic.
- Virtual machines that run in the Fabrikam data centers must remain available if a single data center fails. The recovery point objective (RPO) must be 30 seconds.
- The IT staff at Fabrikam must be able to mount iSCSI target logical units on Hyper-V hosts directly from the Virtual Machine Manager console.
- Hyper-V management and storage traffic must be separated from the network traffic generated by virtual machine guests.
- Virtual machines must be deployed by using a SAN copy.
- If a site fails, a failover must be invoked manually.

Customer1 Requirements

Fabrikam identifies the following requirements for Customer1:

- Customer1 will use Hyper-V Network Virtualization in its hosted environment.
- Customer1 will require the ability to manage all of its cloud services from a single interface.

- Each deployment of a virtual machine for Customer1 must trigger the execution of a runbook by using the Orchestrator web service. The runbook must execute before any user account logs on to the virtual machine.

Customer2 Requirements

Fabrikam identifies the following requirements for Customer2:

- Customer2 must be able to connect to the console of the hosted virtual machines.
- All of the metadata for any of the virtual machines of Customer1 must not be stored in Windows Azure.

Question: 1

DRAG DROP

You need to implement the resiliency requirements for the Hyper-V hosts.

Which four cmdlets should you run in sequence? To answer, move the appropriate cmdlets from the list of cmdlets to the answer area and arrange them in the correct order.

Cmdlets	Answer Area
New-VMSwitch	
New-NetLbfoTeam	
Connect-VMNetworkAdapter	
Add-VMNetworkAdapter	
Set-VMNetworkAdapterVlan	

Answer:

- Box 1: New-NetLbfoTeam
Box 2: New-VMSwitch
Box 3: Add-VMNetworkAdapter
Box 4: Set-VMNetworkAdapterVlan

Question: 2

HOTSPOT

You create a virtual machine template that has the following properties:

```
Status : Normal
JoinDomain :
JoinWorkgroup : WORKGROUP
ComputerName : *
AdminPasswordHasValue : True
OperatingSystem : Windows Server 2012 R2 Standard
CPUCount : 1
IsHighlyAvailable : True
IsDRProtectionRequired : False
RecoveryPointObjective :
SANCopyCapable : False
SANStatus : {TemplateVHDsNotPresentOnSANCopyCapableLuns (26150)}
Memory : 1024
QuotaPoint : 1
UndoDisksEnabled : False
CPUType : 3.60 GHz Xeon (2 MB L2 cache)
ShareSCSIBus : False
ObjectType : Template
Name : WS2012 R2 VM Template
Enabled : True
ComputerTierTemplate :
CapabilityProfile :
ApplicationProfile :
SQLProfile :
ServerFeatures : {Web-Server}
TotalVHDCapacity : 15032385536
VirtualizationPlatform : HyperV
DynamicMemoryMinimumMB : 512
Generation : 2
```

Use the drop-down menus to select the answer choice that completes each statement.

Answer Area

For Customer1 to use this template
to deploy virtual machines, you
must modify [answer choice]

For Customer2 to use this template
to deploy virtual machines, you
must modify [answer choice]

Answer Area

For Customer1 to use this template to deploy virtual machines, you must modify **[answer choice]**

Generation.
ServerFeatures.
IsHighlyAvailable.
IsDRProtectionRequired.

For Customer2 to use this template to deploy virtual machines, you must modify **[answer choice]**

Generation.
ServerFeatures.
IsHighlyAvailable.
IsDRProtectionRequired.

Answer:**Answer Area**

For Customer1 to use this template to deploy virtual machines, you must modify **[answer choice]**

Generation.
ServerFeatures.
IsHighlyAvailable.
IsDRProtectionRequired.

For Customer2 to use this template to deploy virtual machines, you must modify **[answer choice]**

Generation.
ServerFeatures.
IsHighlyAvailable.
IsDRProtectionRequired.

Question: 3**DRAG DROP**

You need to recommend a solution for the management of the iSCSI storage.

Which four actions should you recommend performing in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
On the storage server, install an SMI-S provider.	
On the VMM server, add a SAN and NAS devices discovered and managed by an SMI-S provider.	
On the VMM server, configure managed storage pools.	
On the storage server, install an iSCSI target.	
On the VMM server, create logical units.	
On the VMM server, add a Windows-based file server storage device.	

Answer:

Box 1:

On the storage server, install an iSCSI target.

Box 2:

On the storage server, install an SMI-S provider.

Box 3:

On the VMM server, add a SAN and NAS devices discovered and managed by an SMI-S provider.

Box 4:

On the VMM server, configure managed storage pools.

Question: 4

You need to implement a solution that meets the resiliency requirements of the customers.

What is the best approach to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Hyper-V Recovery Manager
- B. Multi-site Failover Clustering with synchronous, block-level storage replication
- C. Multi-site Failover Clustering with asynchronous, block-level storage replication
- D. Hyper-V Replica and Orchestrator runbooks

Answer: B

Explanation:

All of the metadata for any of the virtual machines of Customer1 must not be stored in Windows Azure. So we can't use Hyper-V Recovery Manager.

Question: 5**DRAG DROP**

You obtain a Client Authentication certificate.

You need to recommend a solution that meets the manageability requirements of Customer2.

From where should you recommend performing the required tasks? To answer, drag the appropriate locations to the correct tasks. Each location may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Location	Answer Area
RD Gateway virtual machine	Configure trusted issuer certificates.
Windows Azure Pack Admin portal	Run the Set-SCVMMServer cmdlet.
VMM Server	Configure a cloud provider for a virtual machine.
	Install Microsoft System Center Virtual Machine Manager Console Connect Gateway.

Answer:

Configure trusted issuer certificates.	RD Gateway virtual machine
Run the Set-SCVMMServer cmdlet.	VMM Server
Configure a cloud provider for a virtual machine.	Windows Azure Pack Admin portal
Install Microsoft System Center Virtual Machine Manager Console Connect Gateway.	RD Gateway virtual machine

Question: 6**DRAG DROP**

You need to recommend a solution to ensure that Customer1 will be able to establish a site-to-site VPN connection between its on-premises private cloud and its hosted private cloud.

Which three actions should you recommend performing in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Create and deploy a service template.	
Add a network service.	
Add a provider.	
Create a Capability profile and assign the profile to the on-premises cloud.	
To the VMM library, add a virtual disk that runs Windows Server 2012 R2.	

Answer:

Box 1:

To the VMM library, add a virtual disk that runs Windows Server 2012 R2.

Box 2:

Create and deploy a service template.

Box 3:

Add a network service.

Explanation:

Reference: <http://technet.microsoft.com/en-us/library/dn282658.aspx>
<http://technet.microsoft.com/library/dn249417.aspx>

Question: 7

You need to recommend a solution for the planned deployment of the virtual machines for Customer1. What should you include in the recommendation?

- A. Create a Guest OS profile. Configure the [GUIRunOnce] Commands settings.
- B. Create an Application profile that has a script application.
- C. Create an Application profile that has a virtual application.
- D. Create a Guest OS profile. Configure the Features settings.

Answer: B

Explanation:

Each deployment of a virtual machine for Customer1 must trigger the execution of a runbook by using the Orchestrator web service. The runbook must execute before any user account logs on to the virtual machine.

We can create a “Post install” script in an application profile to trigger the runbook.

Answer A is incorrect because the [GUIRunOnce] Commands run when the first user logs in.

Reference: http://blogs.technet.com/b/neilp/archive/2013/11/14/scvmm_5f00_servietemplate_5f00_scorth.aspx

Question: 8

DRAG DROP

You need to recommend the appropriate actions to configure the VMM library server.

Which three actions should you recommend performing in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Install an SMI-S provider.	
Add the SAN Device Managed By Native SMP provider.	
Mount a logical unit to a folder in the library share.	
Create a logical unit and assign the logical unit to the library server.	
Add the library server as a managed Hyper-V host.	

Answer:

Box 1:

Add the SAN Device Managed By Native SMP provider.

Box 2:

Create a logical unit and assign the logical unit to the library server.

Box 3:

Mount a logical unit to a folder in the library share.

Explanation:

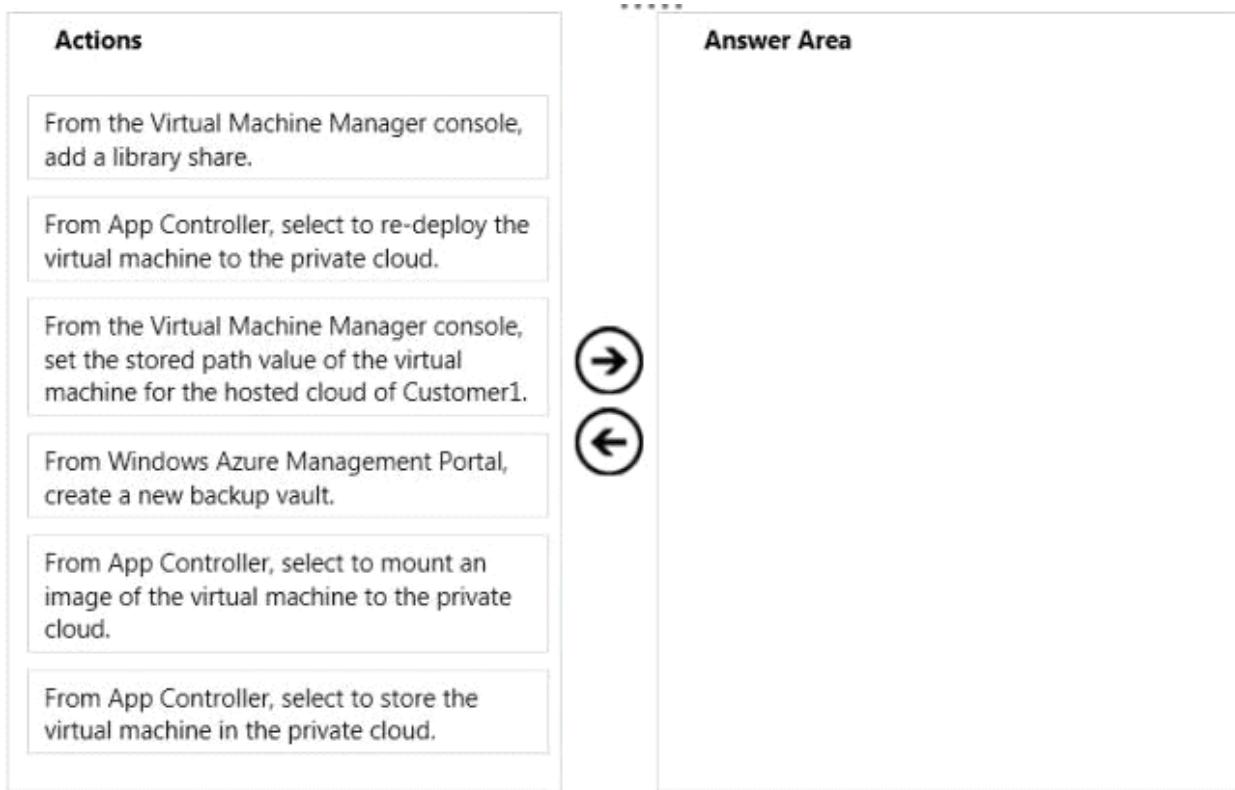
All VMM library servers use DAS storage. None of the VMM library servers are managed as VMM Hyper-V hosts

Question: 9

DRAG DROP

You need to recommend the configuration for Customer1 to ensure that the customer can deploy a copy of an on-premises virtual machine to Windows Azure.

Which three actions should you recommend performing in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



Answer:

Box 1:

From the Virtual Machine Manager console, add a library share.

Box 2:

From the Virtual Machine Manager console, set the stored path value of the virtual machine for the hosted cloud of Customer1.

Box 3:

From App Controller, select to store the virtual machine in the private cloud.

Explanation:

Note:

We need to ensure that the customer can deploy a copy of an on-premises virtual machine to Windows Azure. So we first need to create a library share (box 1) then configure the stored path to point to the library share (box2). A VM that will be copied must first be “stored”. This puts the VM into a saved state and exports the VM and configuration to the “stored-VM” path location (box 3).

When that is done, the customer can invoke the COPY VM operation within App controller to copy the VM to Windows Azure.

Question: 10

DRAG DROP

You need to recommend a solution that meets the manageability requirements of Customer1 after a stamp and a tenant object for Customer1 are created in Service Provider Foundation.

From which server should you recommend performing each task? To answer, drag the appropriate servers to the

correct tasks. Each server may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Servers	Answer Area
App Controller server	Import a .pfx file issued by Customer1. Server
Service Provider Foundation server	Import a .cer file issued by Customer1. Server
VMM server	Create a trusted issuer and a tenant administrator user role. Server

Answer:

Import a .pfx file issued by Customer1.	App Controller server
Import a .cer file issued by Customer1.	Service Provider Foundation server
Create a trusted issuer and a tenant administrator user role.	Service Provider Foundation server

Case Study: 7

Woodgrove Bank

Overview

Existing Environment

Active Directory Environment

The network contains a single Active Directory production forest named woodgrovebank.com.

Currently, there is no trust relationship between the Active Directory forests of Woodgrove Bank and Contoso.

Network Environment

Woodgrove Bank has a perimeter network that hosts Internet-facing servers.

Woodgrove Bank uses Hyper-V Network Virtualization to isolate its production, development, and test environments.

Woodgrove Bank has a Microsoft Azure subscription.

System Center Environment

Woodgrove Bank deploys infrastructure servers that host the following System Center 2012 R2 components.

- Operations Manager
- Data Protection Manager (DPM)
- Virtual Machine Manager (VMM)

Woodgrove Bank plans to deploy Service Provider Foundation, System Center 2012 R2 Orchestrator, and System Center 2012 R2 Service Manager.

All of the internal Hyper-V hosts and the file servers on the Woodgrove Bank network are registered with

VMM. VMM and Windows Server Update Services (WSUS) are integrated. Woodgrove Bank has three VMM logical networks intended for clients, management, and storage. Each VMM logical network is configured to use a host group of All Hosts.

The Operations Manager agent is deployed to each server.

On-premises Computing and Application Environment

The main office has the servers configured as shown in the following table.

Name	Configuration	Operating system	Domain/ workgroup
Server1	Operations Manager	Windows Server 2012 R2	Woodgrovebank
Server2	<i>Not applicable</i>	Windows Server 2012 R2	Woodgrovebank
Server3	DPM	Windows Server 2012 R2	Woodgrovebank
Server4	VMM	Windows Server 2012 R2	Woodgrovebank
Server5	File server	Windows Server 2012 R2	Woodgrovebank
Server6	iSCSI target	Server Core installation of Windows Server 2012	Woodgrovebank
Server7	Hyper-V host	Windows Server 2012 R2	Woodgrovebank
Server8	Server Application Virtualization (Server App-V) Sequencer	Windows Server 2012 R2	Woodgrovebank
Server9	Application server	Windows Server 2012 R2	Woodgrovebank
Server10	IP Address Management (IPAM)	Windows Server 2012 R2	Woodgrovebank
Server11	A Hyper-V host in the perimeter network	Windows Server 2012 R2	Workgroup
Server12	WSUS	Windows Server 2012 R2	Woodgrovebank
Server13	A Hyper-V node in a cluster named Cluster2	Windows Server 2012 R2	Contoso
Server14	A Hyper-V node in a cluster named Cluster2	Windows Server 2012 R2	Contoso

Server5 and Server6 were added to VMM by using explicit user credentials.

A Windows update named Update1 is part of the baseline assigned to All Hosts.

Server3 is configured to have a 2-TB storage pool. Tapes are used for long term backup.

An application named App2 is installed on Server9. App2 requires complex installation and manual setup.

Requirements

Planned Changes

Woodgrove Bank plans to implement the following changes:

- Deploy Service Manager.
- Integrate Orchestrator and Service Manager.
- Deploy all of the components of Orchestrator.
- Deploy Service Provider Foundation to Server2.
- Replace the tape backups with Microsoft Azure Backup.
- Use a domain account named WOODGROVEBANK\vmuser1 to view and modify the IP address space in IPAM.
- Provide additional SMB storage to Server7 from Server5.
- Provide additional iSCSI storage to Server7 from Server5.

Connectivity Requirements

Woodgrove Bank identifies the following connectivity requirements:

- Minimize the Internet bandwidth used by the backups.
- Create a logical switch that will allow you to restrict host access to the logical networks of the clients only.
- Provide external connectivity to the virtual machine networks that are isolated from the clients by using the Network Virtualization using Generic Routing Encapsulation (NVGRE) gateway.

Application Requirements

Woodgrove Bank identifies the following application requirements:

- Minimize the number of VMM service template versions used to deploy App1.
- Create Server App-V packages while minimizing the impact on the existing environment.
- Deploy five instances of a multi-tier application named App1 by using a VMM service template. Each instance will have different deployment settings.

Compliance Requirements

Woodgrove Bank identifies the following compliance requirements:

- Use the principle of least privilege, whenever possible.
- Leverage Azure-based services for assessing the on-premises environment.
- Exclude Server7 from the installation of Update1. The missing patch must not affect the compliance status of Server7 against the baseline assigned to All Hosts.

Question: 1

You need to recommend a solution to deploy App1 to meet the application requirements.

What should you include in the recommendation?

- A. Modify the Application Configuration settings of the App1 service template to include settings enclosed by @.
- B. Configure the custom properties of the App1 service template.
- C. Modify the App1 service template.
- D. Modify the Application Configuration settings of the App1 service template to include settings followed by #.

Answer: B

Explanation:

An application package can contain settings to be entered when you configure the service for deployment. To format this type of setting, enter the parameter in the Value field, in this format: @<SettingLabel>@. For example, you might prompt for the instance name of a SQL Server for a SQL Server database tier application by using the parameter @SQLServerInstanceName@.

Scenario: Deploy five instances of a multi-tier application named App1 by using a VMM service template. Each instance will have different deployment settings.

Reference: How to Create an Application Profile in a Service Deployment

<https://technet.microsoft.com/en-us/library/hh427291.aspx>

Question: 2

DRAG DROP

You need to deploy a virtual machine to provide external connectivity for the virtual machine networks. The solution must meet the connectivity requirements.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- Add a network service.
- Create a virtual machine template.
- Import a physical resource.
- Import a template.
- Deploy a service.

Answer Area

- 1
- 2
- 3
- 4



Answer:

Answer Area

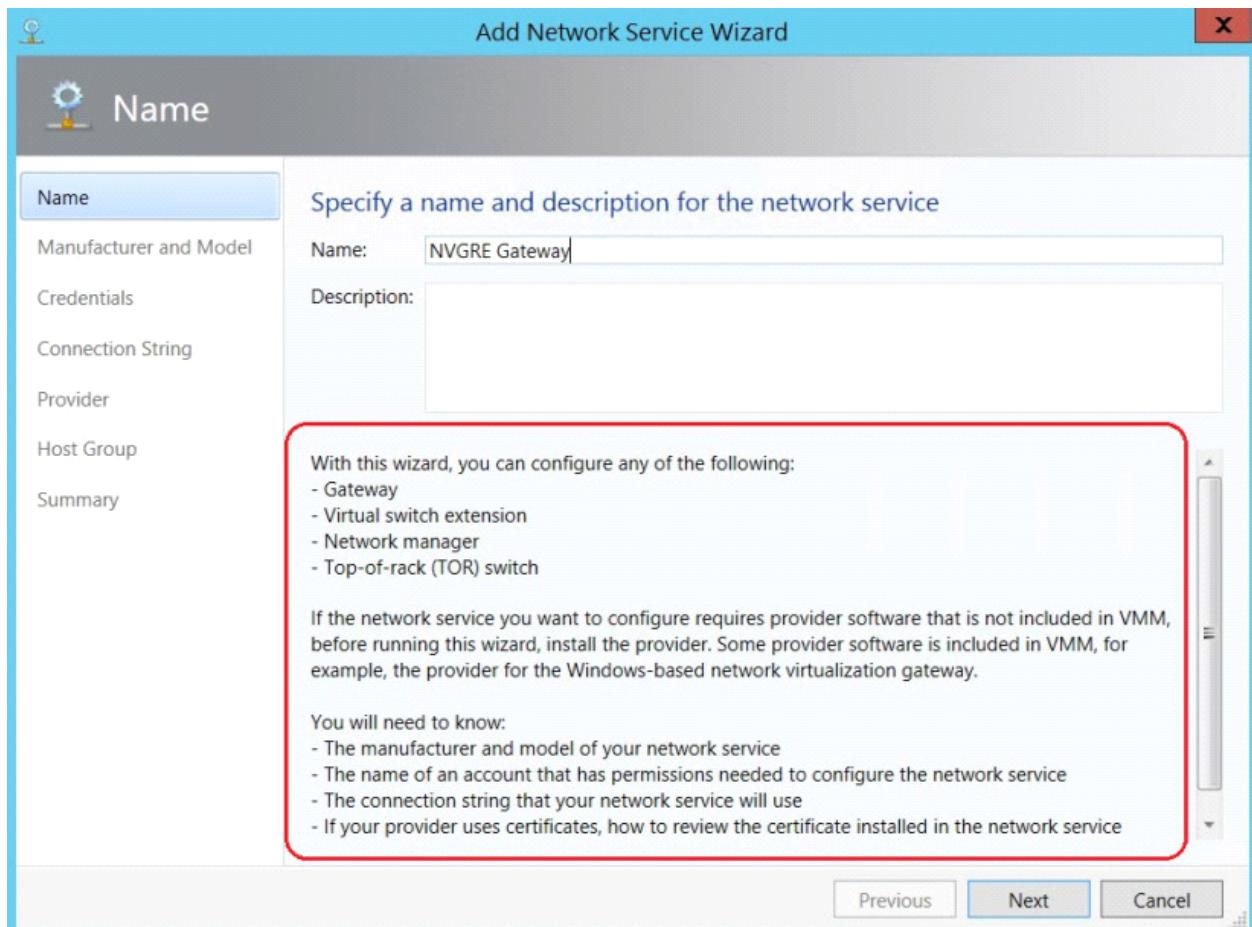
- 1 Import a physical resource.
- 2 Add a network service.
- 3 Import a template.
- 4 Create a virtual machine template.



Explanation:

Create a virtual machine template

(Step 2) You can add a virtual switch extension, such as a NVGRE gateway, by running the Add Network Service Wizard.



(Step 3-4) * After you have created the NVGRE gateway you can create a VMM template that uses the NVGRE gateway.

You can base the new template on an existing VMM template.

* Once you install Client Hyper-V, the first thing that you'll need to do in preparation for creating a virtual machine is create a virtual switch in order for your virtual machines to connect to your network and the Internet. Once you have a virtual switch in place you can create your virtual machines and in the process connect them to your virtual switch.

Scenario: Woodgrove Bank connectivity requirements include:

* Provide external connectivity to the virtual machine networks that are isolated from the clients by using the Network Virtualization using Generic Routing Encapsulation (NVGRE) gateway.

Reference: Making a NVGRE Gateway with System Center 2012 R2 Virtual Machine Manager

<https://mountainss.wordpress.com/2013/12/20/making-a-nvgre-gateway-with-system-center-2012-r2-virtual-machine-manager-svmm-sysctr/>

Question: 3

HOTSPOT

You need to ensure that you can manage Server11 according to the manageability requirements.

In the table below, identify which action to perform on each server.

Note: Make only one selection in each column.

• • • •

Answer Area

Actions	Server4	Server11
Create a host profile.	<input type="radio"/>	<input type="radio"/>
Run the Add Resource Wizard.	<input type="radio"/>	<input type="radio"/>
Use the Import Physical Resource option.	<input type="radio"/>	<input type="radio"/>
Run setup.exe from the VMM installation media.	<input type="radio"/>	<input type="radio"/>

Answer:**Answer Area**

Actions	Server4	Server11
Create a host profile.	<input type="radio"/>	<input checked="" type="radio"/>
Run the Add Resource Wizard.	<input type="radio"/>	<input type="radio"/>
Use the Import Physical Resource option.	<input checked="" type="radio"/>	<input type="radio"/>
Run setup.exe from the VMM installation media.	<input type="radio"/>	<input type="radio"/>

Explanation:

The Import Physical Resource command can be used from the VMM Console.

Scenario:

- * Server11 is a Hyper-V host, Windows Server 2012 R2, in the perimeter network
- * Server4 is a VMM running Windows Server 2012 R2

Question: 4

You need to implement VMM IPAM to meet the manageability requirements.

To which two groups should you add WOODGROVEBANK\vmmuser1?

- A. Remote Management Users on Server10
- B. IPAM ASM Administrators on Server10
- C. Remote Management Users on Server4
- D. IPAM MSM Administrators on Server10
- E. IPAM Administrators on Server10

Answer: A, D**Explanation:**

Before you can add an IPAM server to your configuration in VMM, you must perform the following actions:

1. (this has already been done here) On a server running Windows Server 2012 R2, install the IPAM feature by using Add Roles and Features (in Server Manager) or Windows PowerShell commands. Then configure the IPAM server as described in the relevant IPAM documentation.

2. Create or identify a domain account and, to avoid issues with expiration of the password, ensure that the account is set to never expire. Then, on the IPAM server, ensure that the account has at least the minimum necessary permissions by adding the account to the following two groups:

/ IPAM ASM Administrators: A local group that exists on all IPAM servers, and provides permissions for IP address space management (ASM).

/ Remote Management Users: A built-in group that provides access to WMI resources through management protocols, such as WS-Management through the Windows Remote Management service.

Scenario:

* Use a domain account named WOODGROVEBANK\vmmuser1 to view and modify the IP address space in IPAM.

* Server4 is a VMM running Windows Server 2012 R2

* Server10 is IP Address Management (IPAM)

Reference: How to Add an IPAM Server in VMM in System Center 2012 R2

<https://technet.microsoft.com/en-us/library/dn249418.aspx>

Question: 5

HOTSPOT

You need to design the Orchestrator infrastructure to meet the manageability requirements. The design must minimize costs.

How many of each component should you include in the design? To answer, select the appropriate options in the answer area.

Management server:

0
1
2

Orchestration console:

0
1
2

Orchestrator database:

0
1
2

Orchestrator web service:

0
1
2

Runbook server:

0
1
2

Answer:

Management server:	<input type="button" value="0"/> <input type="button" value="1"/> <input checked="" type="button" value="2"/>
Orchestration console:	<input checked="" type="button" value="0"/> <input type="button" value="1"/> <input type="button" value="2"/>
Orchestrator database:	<input type="button" value="0"/> <input checked="" type="button" value="1"/> <input type="button" value="2"/>
Orchestrator web service:	<input type="button" value="0"/> <input checked="" type="button" value="1"/> <input type="button" value="2"/>
Runbook server:	<input type="button" value="0"/> <input type="button" value="1"/> <input checked="" type="button" value="2"/>

Explanation:

Reference: Orchestrator Architecture

<https://technet.microsoft.com/en-us/library/hh420377.aspx>

Case Study: 8

A.Datum Corporation

Overview

A.Datum Corporation is a consulting company that has two offices. The offices are located in Seattle and Los Angeles.

Existing Environment

Active directory

The network contains a single-domain Active Directory forest named adatum.com.

All of the users in the research department are members of a group named Research.

Server Infrastructure

Each office has one data center. All of the servers in both of the data centers run Windows Server 2012 R2. Each office contains a private network and a perimeter network. The private network and the perimeter network are separated by a firewall.

A.Datum has a pilot implementation of a private cloud in the Seattle office. The relevant servers in the Seattle office are configured as shown in the following table.

Name	Configuration
Server1	System Center 2012 R2 Virtual Machine Manager (VMM)
Server2	System Center 2012 R2 Operations Manager
Server3	Microsoft SQL Server 2012 Service Pack 1 (SP1) server
Server4	Windows Server Update Services (WSUS) server
Server5	File server
Server6	Hyper-V host
Server7	Hyper-V host
Server8	iSCSI target server
Server9	IP Address Management (IPAM) server

Server7 is a member of a workgroup. Server7 is located in the perimeter network of the Seattle office.

Key management for VMM uses a local store.

VMM and Operations Manager use Server3 as a database server.

Administrative Configuration

The network has the users described in the following table.

Name	Member of
User1	Domain Users
User2	WinRMRemoteWMIUsers
User3	Domain Admins
User4	Distributed COM Users
User5	Server4\Administrators
User6	Hyper-V Administrators
User7	Server5\Power Users
User8	Server5\Administrators
User9	Domain Users
User10	Domain Users
User11	Domain Users

VMM contains two host groups named Seattle and Los Angeles. Server6 is in the Seattle host group.

Currently, Server7 is not managed by VMM. The Los Angeles host group is empty.

Four user roles are created in VMM as described in the following table.

Name	Profile type	Scope
Role1	Delegated Administrator	Los Angeles
Role2	Read-Only Administrator	Seattle
Role3	Tenant Administrator	<i>Not applicable</i>
Role4	Self-Service User	<i>Not applicable</i>

Requirements

Planned Changes

- A.Datum plans to implement the following changes:
- Connect the Seattle data center to Microsoft Azure.
 - Extend the on-premises data center and create a hybrid cloud.
 - Use Server8 to provide 10 TB of iSCSI storage for storing virtual machines.

Cloud Infrastructure Requirements

A.Datum identifies the following cloud infrastructure requirements:

- Add Server8 to a storage fabric.
- Add file shares from Server5 to a storage fabric.
- Ensure that all of the private cloud components are highly available.
- Ensure that the servers in the perimeter network of the Seattle office can be monitored by using Operations Manager.

Cloud Manageability Requirements

A.Datum identifies the following cloud manageability requirements:

- The principle of least privilege must be used.
- The virtual machines in the hybrid cloud must be managed.
- User11 must be able to add virtualization hosts to the Seattle host group.
- Server7 must be managed by using VMM. VMM must use default ports for connectivity with Server7.
- User9 must integrate Server4 into the fabric. Secure Sockets Layer (SSL) will not be used with Server4.
- The IPAM server must be used to configure and monitor the logical networks and IP address pools created in VMM.
- User10 must be able to create virtual machines in the Seattle office and overrides for monitoring the virtual machines.
- If VMM puts a Hyper-V host into maintenance mode, Operations Manager must put the Hyper-V host into maintenance mode automatically.
- The users in the Research group must be able to create up to only 20 virtual machines on the virtualization hosts in the Seattle host group.

Question: 1

HOTSPOT

You need to ensure that User9 can perform the appropriate actions to meet the cloud manageability requirements. What should you run? To answer, select the appropriate options in the answer area.

Answer Area

```
$var = Get-SCUserRole
Get-SCUserRoleMembership
Get-SCUserRolePermission
New-SCUserRole -UserRole $var -AddMember adatum\user9
Administrator
Role1
Role2
Role3
Role4
```

New-SCUserRole
Set-SCUserRole

Answer:**Answer Area**

```
$var = Get-SCUserRole
Get-SCUserRoleMembership
Get-SCUserRolePermission
New-SCUserRole -UserRole $var -AddMember adatum\user9
Administrator
Role1
Role2
Role3
Role4
```

New-SCUserRole
Set-SCUserRole

Explanation:

- * The Set-SCUserRole cmdlet modifies the settings for an existing System Center Virtual Machine Manager (VMM) user role.

Parameters include

/ -UserRole<UserRole>

Specifies a user role object.

/ -AddMember<String[]>

Adds one or more members to an object that has the concept of members, such as a group.

/ Delegated Administrator

Members of the Delegated (Fabric) Administrator user role can perform all administrative tasks within their assigned host groups, clouds, and library servers, except for adding XenServer and adding WSUS servers. Delegated Administrators cannot modify VMM settings, and cannot add or remove members of the Administrators user role.

Scenario:

- * User9 must integrate Server4 into the fabric. Secure Sockets Layer (SSL) will not be used with Server4.
- * Server4 is configured as a Windows Server Update Services (WSUS) server
- * The principle of least privilege must be used.
- * Four user roles are created in VMM as described in the following table.

Name	Profile type	Scope
Role1	Delegated Administrator	Los Angeles
Role2	Read-Only Administrator	Seattle
Role3	Tenant Administrator	<i>Not applicable</i>
Role4	Self-Service User	<i>Not applicable</i>

Reference: Creating User Roles in VMM

<https://technet.microsoft.com/en-us/library/gg696971.aspx>

Reference: Set-SCUserRole

<https://technet.microsoft.com/en-us/library/hh801617.aspx>

Question: 2

You need to configure Server1 to meet the cloud infrastructure requirements.

What should you do?

- A. Reinstall VMM.
- B. Create a mirrored volume.
- C. Install the Storage Replica feature.
- D. Create a storage space and use the mirror resiliency type.

Answer: C

Explanation:

Storage Replica (SR) is a new feature that enables storage-agnostic, block-level, synchronous replication between servers for disaster recovery, as well as stretching of a failover cluster for high availability. Synchronous replication enables mirroring of data in physical sites with crash-consistent volumes ensuring zero data loss at the file system level. Asynchronous replication allows site extension beyond metropolitan ranges with the possibility of data loss.

Scenario:

* Server1 is in a private cloud in the Seattle Office

* Infrastructure requirements include:

Ensure that all of the private cloud components are highly available.

Reference: Getting started with Storage Replica in Windows Server Technical Preview

<http://blogs.technet.com/b/craigf/archive/2014/10/04/getting-started-with-storage-replica-in-windows-server-technical-preview.aspx>

Question: 3

HOTSPOT

You need to prepare the environment to ensure that maintenance mode can be implemented to meet the cloud manageability requirements.

What should you do on Server1 and Server2? To answer, select the appropriate options in the answer area.

Answer Area

Server1:

Import the management packs.
Install the Operations Manager console.
Configure Dynamic Optimization for All Hosts.
Install the System Center 2012 Integration Pack for System Center 2012 R2 Operations Manager.

Server2:

Add a new subscription.
Install the VMM console.
Import the management packs.
Install the System Center 2012 Integration Pack for System Center 2012 R2 Virtual Machine Manager.

Answer:

Answer Area

Server1:

Import the management packs.
Install the Operations Manager console.
Configure Dynamic Optimization for All Hosts.
Install the System Center 2012 Integration Pack for System Center 2012 R2 Operations Manager.

Server2:

Add a new subscription.
Install the VMM console.
Import the management packs.
Install the System Center 2012 Integration Pack for System Center 2012 R2 Virtual Machine Manager.

Explanation:

Pre-reqs to cover:

PowerShell 2.0 should be on all servers as they should be Server 2008 R2 SP1 or later.

Install the OpsMgr Console on the SCVMM server (Server1 here). This is needed for the SDK binaries for SCOM connections

Ensure you have the IIS and SQL MP's in place in SCOM (Server 2 here), as SCVMM MP's have dependencies.

Scenario:

* If VMM puts a Hyper-V host into maintenance mode, Operations Manager must put the Hyper-V host into maintenance mode automatically.

* Server1: System Center 2012 R2 Virtual Machine Manager (VMM)

* Server2: System Center 2012 R2 Operations Manager

Reference: Integrating VMM 2012 and OpsMgr 2012

<http://blogs.technet.com/b/kevinholman/archive/2012/08/21/integrating-vmm-2012-and-opsmgr-2012.aspx>

Question: 4

HOTSPOT

Which settings should User9 configure in the Add Windows Server Update Services Server dialog box on Server1 to meet the cloud manageability requirements? To answer, select the appropriate options in the answer area.

Answer Area

TCP/IP port:

80	▼
443	
8080	
8530	

Run As Account:

User1	▼
User2	
User3	
User4	
User5	
User6	

Answer:

* Account requirements

To enable update management, you must be a member of the Administrator user role in VMM (user9 is indeed member of the Domain admins. You will need an account that has local administrator rights on the WSUS server. This would be User5.

* Port 8530 is used see step 4 below.

To add a Windows Server Update Server to VMM

In the VMM console, open the Fabric workspace.

On the Home tab, in the Add group, click Add Resources, and then click Update Server.

The Add Windows Server Update Services Server dialog box opens.

Type in the Computer name of the WSUS server.

Specify the TCP/IP port that the WSUS website listens on for connections. For WSUS on a computer with Windows Server 2012 or later, use port 8530 (non-SSL) or 8531 (SSL). For earlier versions of Windows, use port 80.

Enter credentials for connecting to the WSUS server. The account must have administrator rights on the WSUS server.

You can use an existing Run As Account, or create a new one.

If necessary, select the Use Secure Socket Layer (SSL) to communicate with the WSUS server and clients check box.

Click Add.

Scenario:

* User9 must integrate Server4 into the fabric. Secure Sockets Layer (SSL) will not be used with Server4.

* Sever1 is configured as a System Center 2012 R2 Virtual Machine Manager (VMM)

* The principle of least privilege must be used.

* The network include the users

Name	Member of
User1	Domain Users
User2	WinRMRemoteWMIUsers
User3	Domain Admins
User4	Distributed COM Users
User5	Server4\Administrators
User6	Hyper-V Administrators

Explanation:

Reference: How to Add an Update Server to VMM

<https://technet.microsoft.com/en-us/library/gg675116.aspx>

Question: 5

You need to meet the cloud infrastructure requirements for the servers in the perimeter network of the Seattle office. Which port should you allow on the firewall?

- A. 443
- B. 5723
- C. 5986
- D. 8531

Answer: B

Explanation:

Port 5723 is used by the Operation Manager Reporting server (and Management Server), which is used for Monitoring.

Scenario:

- * Ensure that the servers in the perimeter network of the Seattle office can be monitored by using Operations Manager.
- * . Server7 is located in the perimeter network of the Seattle office.

Reference: System Requirements: System Center 2012 - Operations Manager

<https://technet.microsoft.com/en-us/library/jj656649.aspx>

Case Study: 9

Mix Questions

Question: 1

DRAG DROP

Your network contains an Active Directory domain named contoso.com.

You plan to install System Center 2012 Virtual Machine Manager (VMM) on a server in the domain.

You create a failover cluster that contains two nodes named Server1 and Server2.

You configure an account named contoso\scvmm as the service account for VMM.

You start installing VMM 2012 on Server1.

You need to ensure that the encryption keys used by VMM are available on Server1 and Server2. Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer area
Assign the Read permissions to contoso\scvmm on Folder1.	
Create a container in contoso.com named Container1.	
Create a folder named Folder1 on each node.	
Click the Local key management option during the setup of VMM.	
Click the Distributed key management option during the setup of VMM.	
Assign the Read, Write, Create All Child objects permissions to contoso\scvmm on Container1.	

Answer:

Actions	Answer area
Assign the Read permissions to contoso\scvmm on Folder1.	Create a container in contoso.com named Container1.
Create a folder named Folder1 on each node.	Assign the Read, Write, Create All Child objects permissions to contoso\scvmm on Container1.
Click the Local key management option during the setup of VMM.	Click the Distributed key management option during the setup of VMM.

Explanation:

<http://technet.microsoft.com/en-us/library/gg697604.aspx>

The following are some considerations about using distributed key management in VMM:

If you are installing a highly available VMM management server, you must use distributed key management to store encryption keys in AD DS.

Distributed key management is required in this scenario because when the Virtual Machine Manager service fails over to another node in the cluster, the Virtual Machine Manager service still needs access to the encryption keys in order to access data in the VMM database. This is only possible if the encryption keys are stored in a central location like ADDS.

For future upgrades that involve Virtual Machine Roles, it is recommended that you use distributed key management during setup. This will ensure that Virtual Machine Roles are properly upgraded, and that you can manage them after the upgrade.

You must create a container in AD DS before installing VMM. You can create the container by using ADSI Edit.

You must create the container in the same domain as the user account with which you are installing VMM. Also, if you specify a domain account to be used by the System Center Virtual Machine Manager service, that account must also be in the same domain. For example, if the installation account and the service account are both in thecorp.contoso.com domain, you must create the container in that domain. So, if you want to create a container named VMMDKM, you would specify the container location as CN=VMMDKM,DC=corp,DC=contoso,DC=com.

After the Active Directory administrator has created the container, the account with which you are installing VMM

must be given Full Control permissions to the container in AD DS.

Also, the permissions must apply to this object and all descendant objects of the container.

On the Configure service account and distributed key management page, you must specify the location of the container in AD DS by typing. For example, by typing

CN=VMMDDK,DC=corp,DC=contoso,DC=com.

Question: 2

You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure that contains a server named VMM1.

A user named TestUser5 attempts to add a Hyper-V host named Host1 to the fabric. TestUser5 enters the IP address of Host1 and receives the following error message: "Access has been denied while contacting the server Host1."

You verify that TestUser5 is assigned the Delegated Administrator User Role.

You need to ensure that TestUser5 can add Host1 to the fabric.

What should you do?

- A. Add TestUser5 to the Network Operators security group.
- B. Create a Run as Account that is a member of the local Administrators group on Host1.
- C. Assign the Administrator User Role to TestUser5.
- D. Modify the logon account for the System Center Virtual Machine Manager Agent service on VMM1.

Answer: B

Question: 3

You have a System Center 2012 Service Manager infrastructure that contains a single server named SCSM1.

You plan to use a new account named Account1 as the Operational Database Account.

You plan to configure SCSM1 to use Account1 as the logon account for the System Center Data Access Service.

You need to identify which roles must be assigned to Account1.

Which two roles should you identify? (Each correct answer presents part of the solution. Choose two.)

- A. the Service Manager Administrators User Role Profile
- B. the Microsoft SQL Server db_ddladmin fixed database role
- C. the Service Manager Workflows User Role Profile
- D. the Service Manager Advanced Operators User Role Profile
- E. the Microsoft SQL Server configsvc_users database role
- F. the Microsoft SQL Server sdk_users database role

Answer: A, F

Explanation:

<http://technet.microsoft.com/en-us/library/hh495527.aspx> suggests that A, E and F are required (Service Manager Administrators User Role Profile, configsvc_users database role and sdk_users database role) but the question is asking for just two answers.

<http://technet.microsoft.com/en-us/library/hh495527.aspx> doesn't mention the configsvc_users database role as below so the answer is A and F.

System Center Configuration service and System Center Data Access service account:

This account is one set of credentials that is used to update and read information in the operational database.

Operations Manager ensures that the credentials used for the System Center Data Access service and System Center Configuration service account are assigned to the sdk_user role in the operational database.

Question: 4

You deploy System Center 2012 R2 Operations Manager and import several management packs. You need to modify the number of days that event data is stored in the database. Which table should you modify in the Reporting data warehouse database?

- A. dbo.Dataset
- B. dbo.StandardDataSetAggregation
- C. Event. EventStage
- D. dbo.DatasetType

Answer: B

Question: 5

Your network contains a System Center Service Manager 2010 Service Pack 1 (SP1) infrastructure that contains four servers.

The servers are configured as shown in the following table.

Server name	Server role
Server1	Management server
Server2	Data warehouse management server
Server3	Microsoft SQL Server Reporting Services
Server4	Microsoft SQL Server

You upgrade Server1 and Server2 to Service Manager 2012.

You need to ensure that Server2 can continue to deploy reports to Server3.

Which two tasks should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Copy the Microsoft.EnterpriseManagement.Reporting.Code.dll file to SSRS1.
- B. Modify the RSReportServer.config file on MGT1.
- C. Modify the RSReportServer.config file on SSRS1.
- D. Modify the RSSrvPolicy.config file on DATA1.
- E. Modify the RSSrvPolicy.config file on SQL1.
- F. Copy the Microsoft.EnterpriseManagement.Reporting.Code.dll file to SQL1.

Answer: A, C

Explanation:

Preparing the remote computer to host SSRS involves the following steps, which are covered in detail in this section:

- * (A) Copy Microsoft.EnterpriseManagement.Reporting.Code.dll from the Service Manager installation media to the computer that is hosting SSRS.
- * Add a code segment to the rsrvpolicy configuration file on the computer that is hosting SSRS.
- * (C) Add an Extension tag to the existing Data segment in the rsreportserver configuration file on the same computer.

Reference: Manual Steps to Configure the Remote SQL Server Reporting Services

URL: <http://technet.microsoft.com/en-us/library/hh519664>

Question: 6

DRAG DROP

Your network contains two servers named Server1 and Server2. Server1 hosts a System Center 2012 Service Manager management server. Server2 hosts a Service Manager data warehouse management server.

The System Center infrastructure contains test data that was entered during a testing phase.

You plan to deploy the System Center servers to the production network.

You need to remove the test data from the data warehouse before you deploy the server to the production network.

You remove the test data from the Service Manager database.

What order should you perform the listed actions? (To answer, move all the actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer area
Delete the data warehouse databases.	
Uninstall the data warehouse management server.	
Stop the data warehouse jobs.	
Install the data warehouse management server.	
Register the data warehouse management server.	
Unregister the data warehouse management server.	

Answer:

Actions	Answer area
	Stop the data warehouse jobs.
	Unregister the data warehouse management server.
	Uninstall the data warehouse management server.
	Delete the data warehouse databases.
	Install the data warehouse management server.
	Register the data warehouse management server.

Explanation:

Reference:

<http://social.technet.microsoft.com/Forums/en/dwreportingdashboards/thread/9cedc66c-b7aa-478e-8548-7de0a9c1dfab>

Question: 7

HOTSPOT

You are implementing System Center 2012 R2.

You have four servers named Server1, Server2, Server3, and Server4 that run Windows Server 2012 R2. You install Operations Manager on Server1 and Data Protection Manager (DPM) on Server2.

You need to install the following System Center components:

A Service Manager data warehouse server

A Service Manager management server

Virtual Machine Manager (VMM)

App Controller

On which servers should you install each System Center component? To answer, select the appropriate component for each server in the answer area.

Answer Area

Server1:

Server2:

Server3:

Server4:

Answer Area

Server1:
Service Manager data warehouse server
Service Manager management server
VMM

Server2:
App Controller
Service Manager data warehouse server
Service Manager management server

Server3:
App Controller
Service Manager data warehouse server
VMM

Server4:
App Controller
Service Manager management server
VMM

Answer:

Answer Area

Server1:

Service Manager data warehouse server
Service Manager management server
VMM

Server2:

App Controller
Service Manager data warehouse server
Service Manager management server

Server3:

App Controller
Service Manager data warehouse server
VMM

Server4:

App Controller
Service Manager management server
VMM

Explanation:**Note:**

Some of the System Center 2012 R2 components will not function properly if other components have been installed on the same computer. None of the following four components can exist on the same computer with each other:

DPM Management Server

Operations Manager Management Server

Service Manager Management Server

Service Manager Data Warehouse Management Server

Any of the remaining System Center 2012 components, App Controller, Orchestrator, and VMM can coexist with each other and with the four components in the previous list. Therefore, four computers is the minimum number of computers that you will need to deploy all of the System Center 2012 R2 components.

Reference: <http://technet.microsoft.com/en-us/library/dn281928.aspx>

Question: 8

Your network contains an Active Directory domain named contoso.com. The domain contains a domain controller named DC1 that runs Windows Server 2008 R2 Service Pack 1 (SP1). The forest functional level is Windows Server 2003.

The domain contains two member servers named Server1 and Server2. Server1 has Microsoft SQL Server 2008 installed. Both servers run Windows Server 2008 R2 SP1.

Your company plans to deploy System Center 2012 R2 Service Manager to Server2.

You need to ensure that you can install Service Manager on Server2.

What should you do?

- Upgrade the operating system on Server1.
- Raise the forest functional level.
- Upgrade the operating system on DC1.
- Upgrade SQL Server on Server1.
- Upgrade the operating system on Server2.

Answer: D

Question: 9

DRAG DROP

Your company has a datacenter in Los Angeles.

The datacenter contains a System Center 2012 Virtual Machine Manager (VMM) infrastructure.

You install the Microsoft Server Application Virtualization (Server App-V) Sequencer on a server named AppV1.

You need to create a virtual application package for an application named VirtualApp. The solution must ensure that you can specify custom installation options for VirtualApp.

Which four actions should you perform in sequence? (To answer, move the four appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer Area
Start the sequencer.	
Run the setup for VirtualApp.	
Stop the sequencer.	
Save the virtual application package.	
Close VirtualApp.	
Run VirtualApp.	

Answer:

Actions	Answer Area
Close VirtualApp.	
Run VirtualApp.	
Start the sequencer.	
Run the setup for VirtualApp.	
Stop the sequencer.	
Save the virtual application package.	

Explanation:

Note:

Here are the five steps to create a Server App-V package:

- 1- Install Server App-V Sequencer
- 2- Start Server App-V Sequencer to monitor the system
- 3- Launch and install your application
- 4- Stop Server App-V Sequencer monitoring the system
- 5- Save the Server App-V package

Reference: Creating Virtual Application Packages with Microsoft Server Application Virtualization Sequencer
<http://blogs.technet.com/b/scvmm/archive/2011/04/18/creating-virtual-application-packages-withmicrosoftserver-application-virtualization-sequencer.aspx>

Question: 10

You have a deployment of System Center 2012 R2 Virtual Machine Manager (VMM).

You need to configure a profile that installs the Web Server (IIS) server role during the deployment of a virtual machine.

Which profile should you configure?

- A. Guest OS
- B. Advanced Operator
- C. Capability
- D. Physical Computer

Answer: A

Question: 11

DRAG DROP

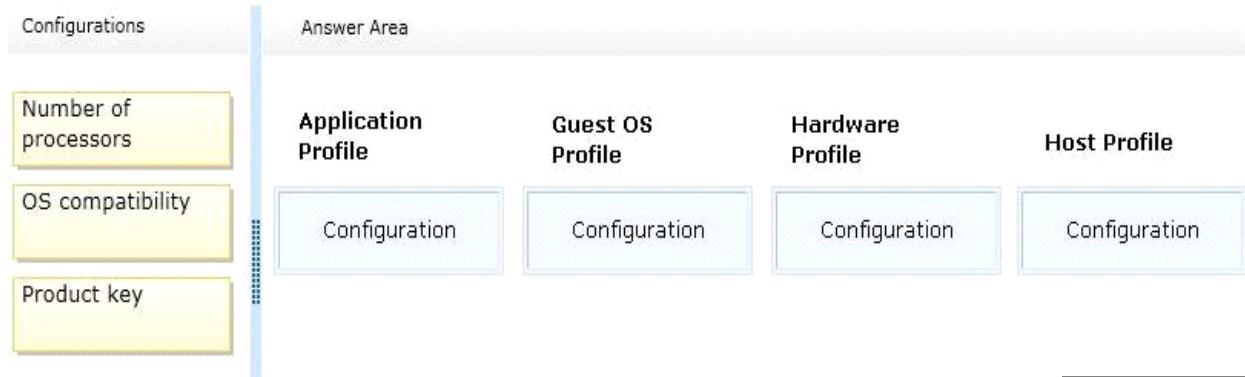
You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure.

You plan to create profiles.

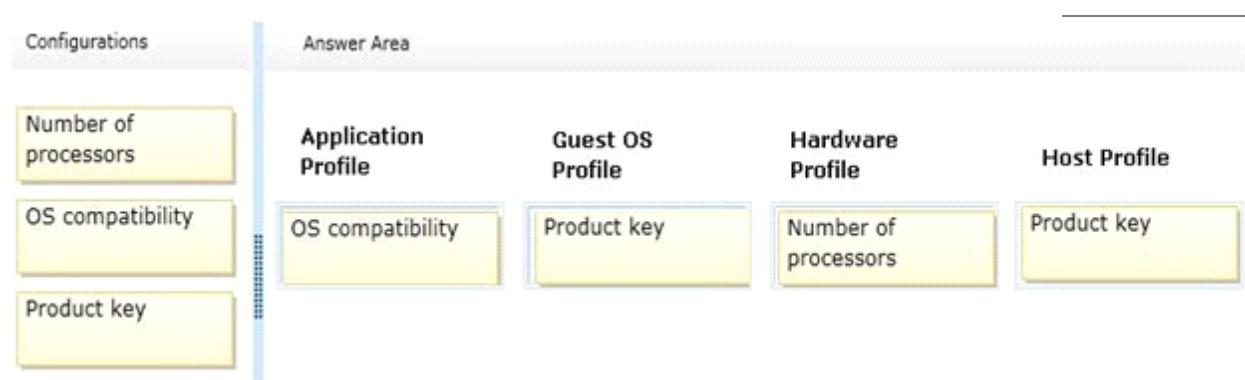
You need to identify which settings can be applied to each profile type.

Which settings should you identify?

To answer, drag the appropriate setting or settings to the correct profile type or profile types in the answer area, (Each setting may be used once, more than once, or not at all.)



Answer:



Explanation:

<http://technet.microsoft.com/en-us/library/hh368987>

Question: 12

Your company has a datacenter in Los Angeles.

The datacenter contains a System Center 2012 infrastructure that contains the following roles:

Orchestrator

Service Manager

Virtual Machine Manager(VMM)

The company is evaluating an auditing policy.

You need to recommend a portal that must be used to ensure that the following tasks are audited:

When an administrator updates a service

When a user requests a change to a service

When an administrator approves a change to a service

You need to recommend a solution that meets the requirements of the compliance policy.

Which portal should you include in the recommendation?

- A. The Service Manager Self-Service Portal
- B. The Virtual Machine Manager Self-Service Portal (VMMSSP) 2.0
- C. The Virtual Machine Manager Self-Service Portal (VMMSSP)
- D. The App Controller portal

Answer: A

Question: 13

HOTSPOT

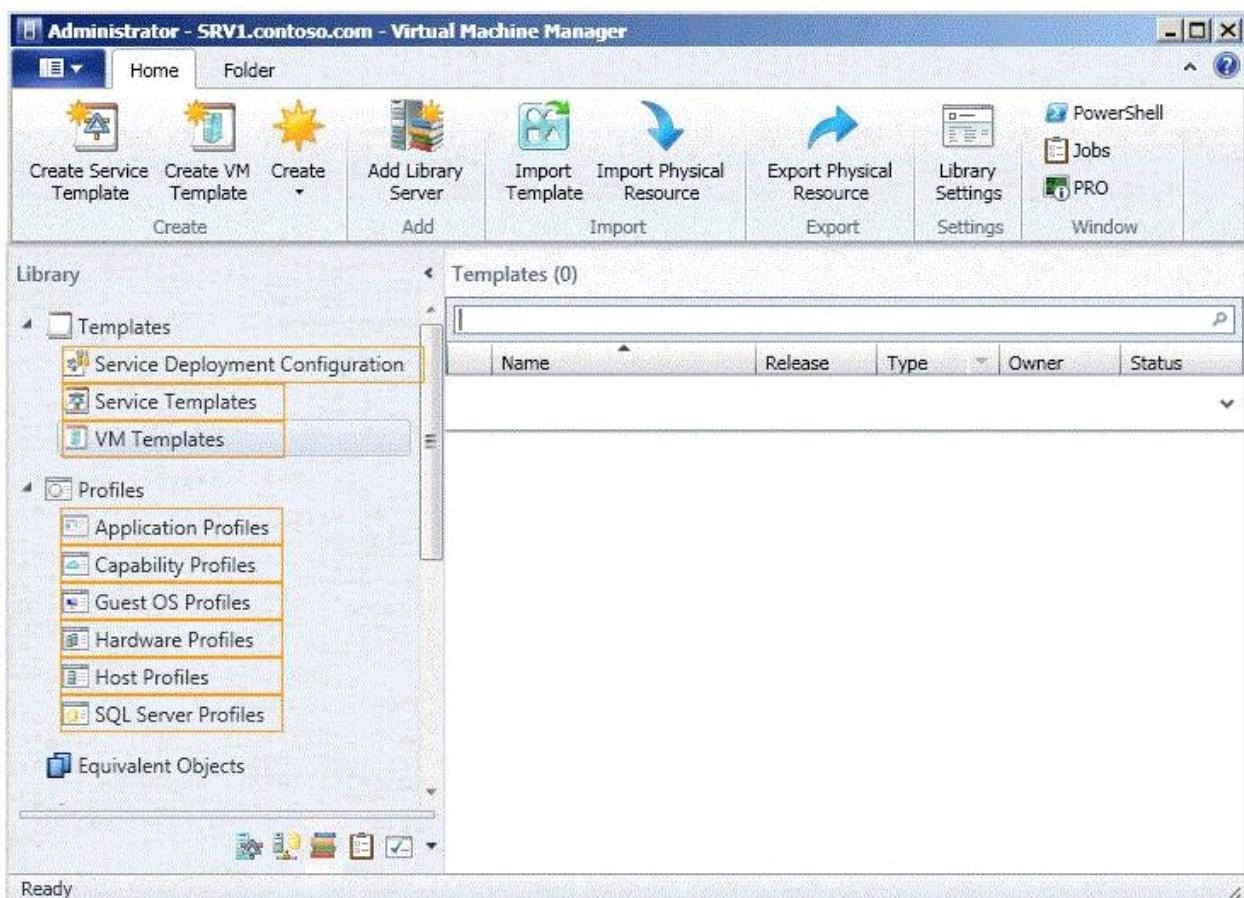
You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure.

You create a private cloud named Cloud1.

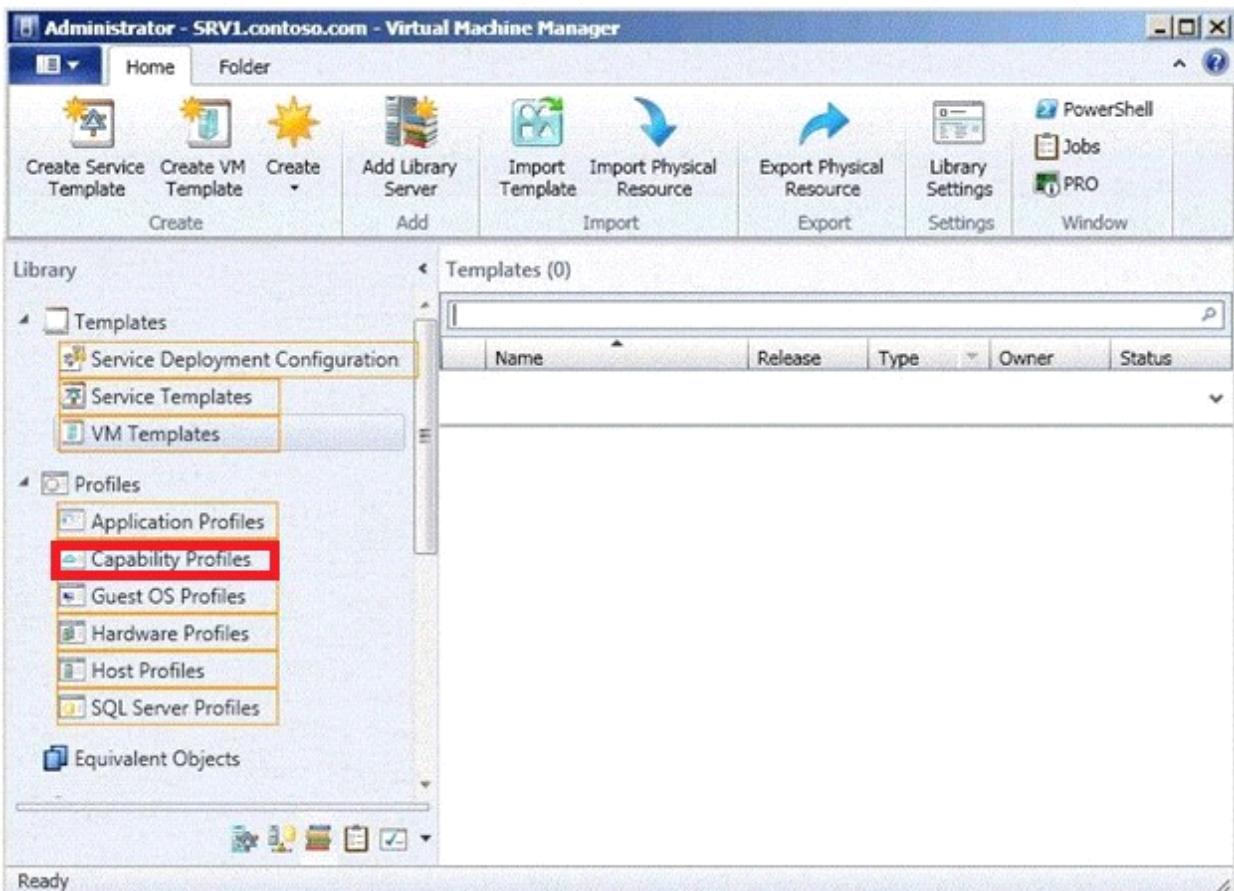
You need to ensure that virtual machines deployed to Cloud1 are allocated a maximum of 4 GB of memory.

What should you configure from the VMM Administrator Console?

To answer, select the appropriate library object in the answer area.



Answer:



Question: 14

HOTSPOT

You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure.

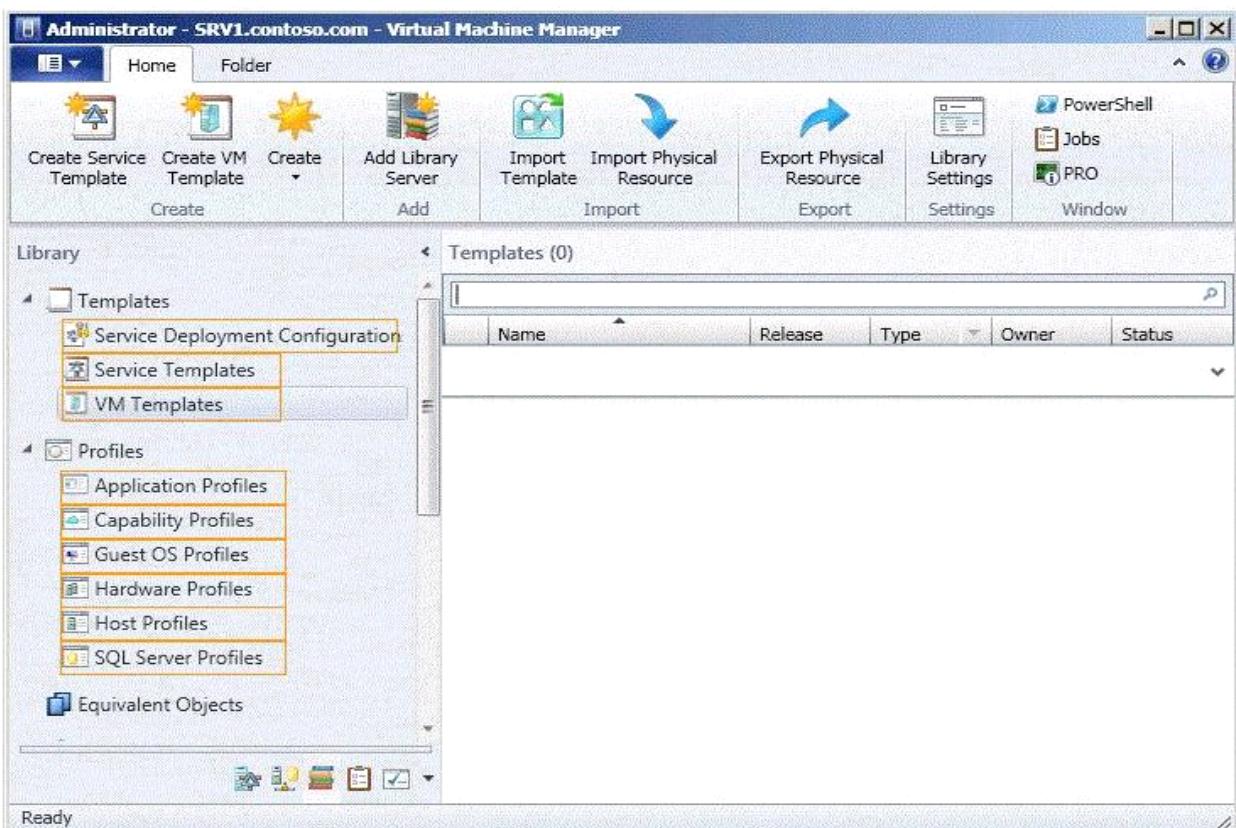
You create a SQL Server Profile.

You plan to deploy new virtual machines based on a virtual machine template named VT1.

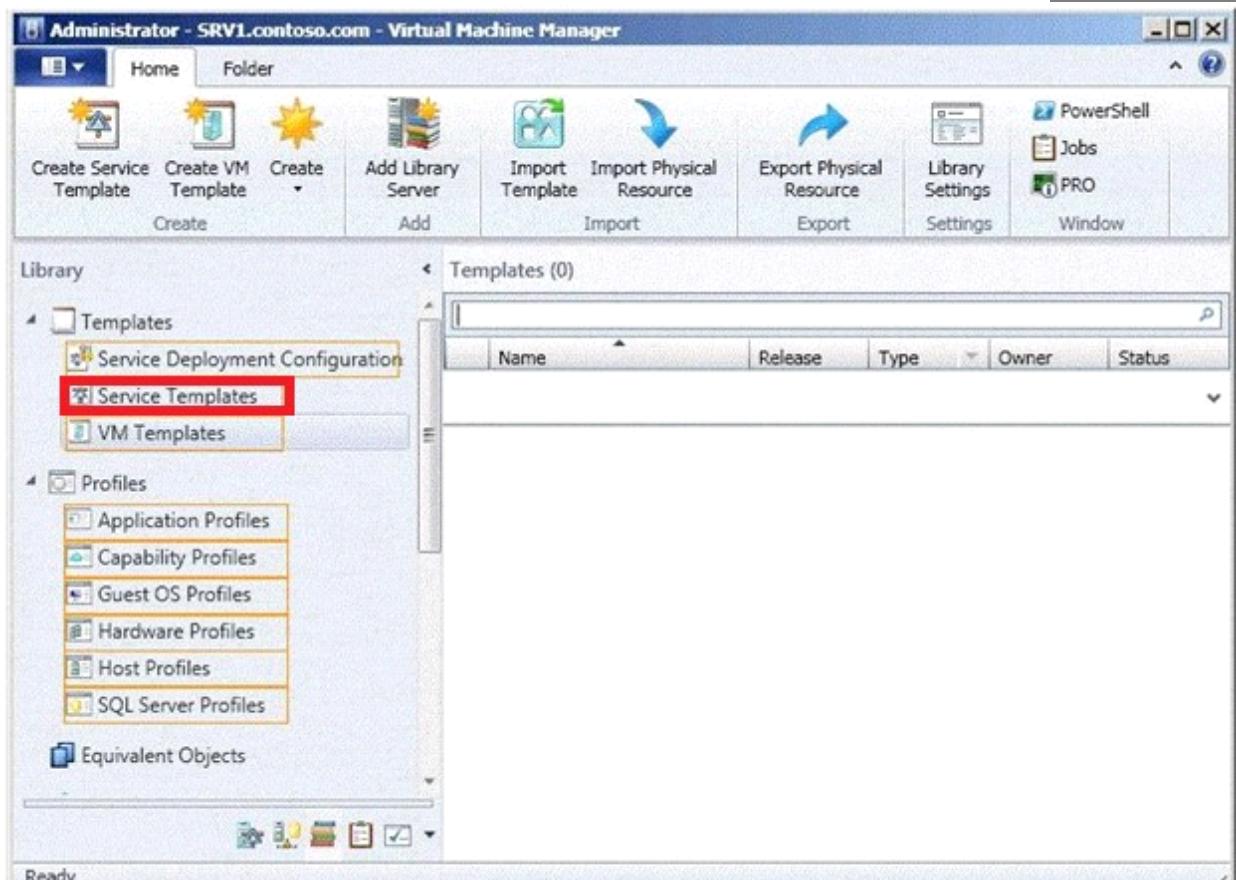
You need to ensure that the SQL Server Profile is applied to the new virtual machines.

Which object should you create from the VMM Administrator Console?

To answer, select the appropriate object type in the answer area.



Answer:



Explanation:

SQL Server Profile is supported for services, but not for standalone VM creation. Therefore, there are three main steps to use SQL Server profile to deploy VMs and configure SQL Server:

1. Create SQL Server profile.
2. Create Service Template.
3. Deploy Service.

Reference:

<http://blogs.technet.com/b/scvmm/archive/2011/09/27/vmm-2012-sql-server-profile.aspx?Redirected=true>

Question: 15

HOTSPOT

You have a deployment of System Center 2012 R2 Virtual Machine Manager (VMM).

You plan to create Hardware profiles and Physical Computer profiles.

You need to identify which settings can be configured in each profile type.

What should you identify? In the table below, identify the profile type in which each setting can be configured. Make only one selection in each row.

Setting	Hardware profile	Physical Computer profile
Generation	<input type="radio"/>	<input type="radio"/>
Fibre Channel Adapter	<input type="radio"/>	<input type="radio"/>
Memory	<input type="radio"/>	<input type="radio"/>
Run As Account	<input type="radio"/>	<input type="radio"/>

Answer:

Setting	Hardware profile	Physical Computer profile
Generation	<input checked="" type="radio"/>	<input type="radio"/>
Fibre Channel Adapter	<input checked="" type="radio"/>	<input type="radio"/>
Memory	<input checked="" type="radio"/>	<input type="radio"/>
Run As Account	<input type="radio"/>	<input checked="" type="radio"/>

Question: 16

You have a deployment of System Center 2012 R2 Virtual Machine Manager (VMM).

You plan to use the Create Clustered File Server Wizard to create a cluster on two physical servers named Server1 and Server2. The new cluster will be named Cluster1 and will have a virtual IP (VIP) of 10.20.30.13.

When you attempt to deploy the new cluster, you receive the following error message in the job window: "Error (26568) The IP address 10.20.30.13 could not be allocated from any IP address pool."

You need to ensure that you can deploy the cluster.

What should you do?

- A. Create a new logical network IP pool and add the IP address to the new pool.
- B. Create a new VIP template profile.

- C. Add the IP address to the VIP section of the logical network IP pool.
- D. Create a DHCP reservation for the IP address.

Answer: A

Question: 17

You have a deployment of System Center 2012 R2 Virtual Machine Manager (VMM). The deployment contains three Hyper-V hosts named Server1, Server2, and Server3. All of the servers connect to a LUN named LUN1.

You need to disconnect Server1 from LUN1 without affecting the other Hyper-V hosts.

You write the following Windows PowerShell script:

```
01 $VAR1 = Get-SCVMHost -ComputerName "Server1"
02 $VAR2 = Get-SCStorageLogicalUnit -Name "LUN1"
03
```

Which command should you insert at line 03?

- A. Unregister-SCSTORAGElogicalUnit -STORAGE1logicalUnit \$VAR2 -VMHost \$VAR1
- B. Unregister-StorageSubSystem -ProviderName \$VAR2, \$VAR1
- C. Set-SCSTORAGE1logicalUnit -STORAGE1logicalUnit \$VAR2 -VMHost SVAR1
- D. Remove-SCSTORAGE1logicalUnit -STORAGE1logicalUnit \$VAR1 -VMHost\$VAR2

Answer: A

Question: 18

Your network contains a domain named adatum.com. The domain contains five virtualization servers. The servers are configured as shown in the following table.

Server name	Server role
Host1	Windows Server 2008 Service Pack 2 (SP2) Hyper-V server role
Host2	Microsoft Hyper-V Server 2008 R2
Host3	Microsoft Virtual Server 2005 R2
Host4	VMware ESX Server 2.5
Host5	VMware ESX Server 3.5

The network also contains a server named Server1 that runs VMware vCenter Server.

In the domain, you install System Center 2012 Virtual Machine Manager (VMM) on a server named VMM1. You configure VMM1 to manage Server1.

You need to ensure that you can add all of the servers to the VMM fabric.

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Install Hyper-V Server 2008 R2 Service Pack 1 (SP1) on Host3.
- B. Install Hyper-V Server 2008 R2 Service Pack 1 (SP1) on Host5.
- C. Install Hyper-V Server 2008 R2 Service Pack 1 (SP1) on Host4.
- D. Uninstall VMware vCenter from Server1.
- E. Upgrade Host1 to Hyper-V Server 2008 R2 Service Pack 1 (SP1).
- F. Upgrade Host2 to Hyper-V Server 2008 R2 Service Pack 1 (SP1).

Answer: A, C

Question: 19

Your company has a datacenter in Seattle.

The datacenter contains a private cloud that is managed by a server named VMM1. VMM1 has System Center 2012 Virtual Machine Manager (VMM) installed.

You add three Hyper-V hosts named Host1, Host2, and Host3 to the server fabric. The hosts are connected to a SAN named STORAGE1 by using Fiber Channel connections.

You need to optimize access to the LUNs in STORAGE1 from the hosts.

What should you do first?

- A. Configure the hosts to connect to STORAGE1 by using an iSCSI channel.
- B. Install the Multipath I/O (MPIO) feature on VMM1.
- C. Configure VMM1 to connect to STORAGE1 by using an iSCSI channel.
- D. Install the Multipath I/O (MPIO) feature on the hosts.

Answer: D

Question: 20

Your network contains an Active Directory domain named contoso.com. The domain contains two member servers named Server1 and Server2 that run Windows Server 2012 R2. Server1 has System Center 2012 R2 Virtual Machine Manager (VMM) installed. Server2 has the IP Address Management (IPAM) feature installed.

You need to ensure that address spaces created in VMM are visible in IPAM.

What should you do?

- A. From Windows PowerShell, run the Add-SCNetworkConnectioncmdlet.
- B. From the Virtual Machine Manager console, configure the System Center Settings.
- C. From Windows PowerShell, run the Add-SCNetworkServicecmdlet.
- D. From the Virtual Machine Manager console, create a service.

Answer: C

Explanation:

Note:

In VMM, network services include gateways, virtual switch extensions, network managers (which include IPAM servers), and top-of-rack (TOR) switches

Question: 21

Your company has three datacenters located in New York, Los Angeles and Paris.

You deploy a System Center 2012 Virtual Machine Manager (VMM) infrastructure. The VMM infrastructure contains 2,000 virtual machines deployed on 200 Hyper-V hosts.

The network contains a server named DPMI that has System Center 2012 Data Protection Manager (DPM) installed.

You need to recommend a solution for the infrastructure to meet the following requirements:

Automatically backup and restore virtual machines by using workflows.

Automatically backup and restore system states by using workflows.

What should you include in the recommendation? (Each correct answer presents part of the solution. Choose two.)

- A. Deploy System Center 2012 Orchestrator.
- B. Install the Integration Pack for System Center Virtual Machine Manager (VMM).
- C. Install the Integration Pack for System Center Data Protection Manager (DPM).
- D. Deploy System Center 2012 Operations Manager.
- E. Deploy System Center 2012 Service Manager.

Answer: A, C

Explanation:

References:

<http://technet.microsoft.com/en-us/library/hh420337>

<http://technet.microsoft.com/en-us/library/hh830726.aspx>

Question: 22

HOTSPOT

Your network contains a server named Srv6 that has System Center 2012 App Controller installed.

You log on to the App Controller portal.

You need to modify the diagnostic logging level.

What should you select from the App Controller portal?

To answer, select the appropriate option in the answer area.

The screenshot shows the Microsoft System Center 2012 App Controller portal. The URL in the address bar is https://srv6.contoso.com/. The page title is "App Controller". The left sidebar menu includes: Overview (selected), Clouds, Services, Virtual Machines, Library, Jobs, Settings (with sub-options Connections, Subscriptions, User Roles), and a "Next Steps" section. The main content area displays the "Overview" page with sections for "Status" (Private Clouds and Public Clouds) and "Next Steps" (Common Tasks like Connect a Virtual Machine Manager server, Connect a Windows Azure subscription, Add a network file share, and How To links for obtaining a Windows Azure subscription, using network file shares, managing private cloud quota, managing services, creating service templates, adding a service template to a cloud, and moving from virtual machines to services). The bottom of the screen shows copyright information: © 2012 Microsoft. All rights reserved. Privacy Send feedback to Microsoft.

Answer:

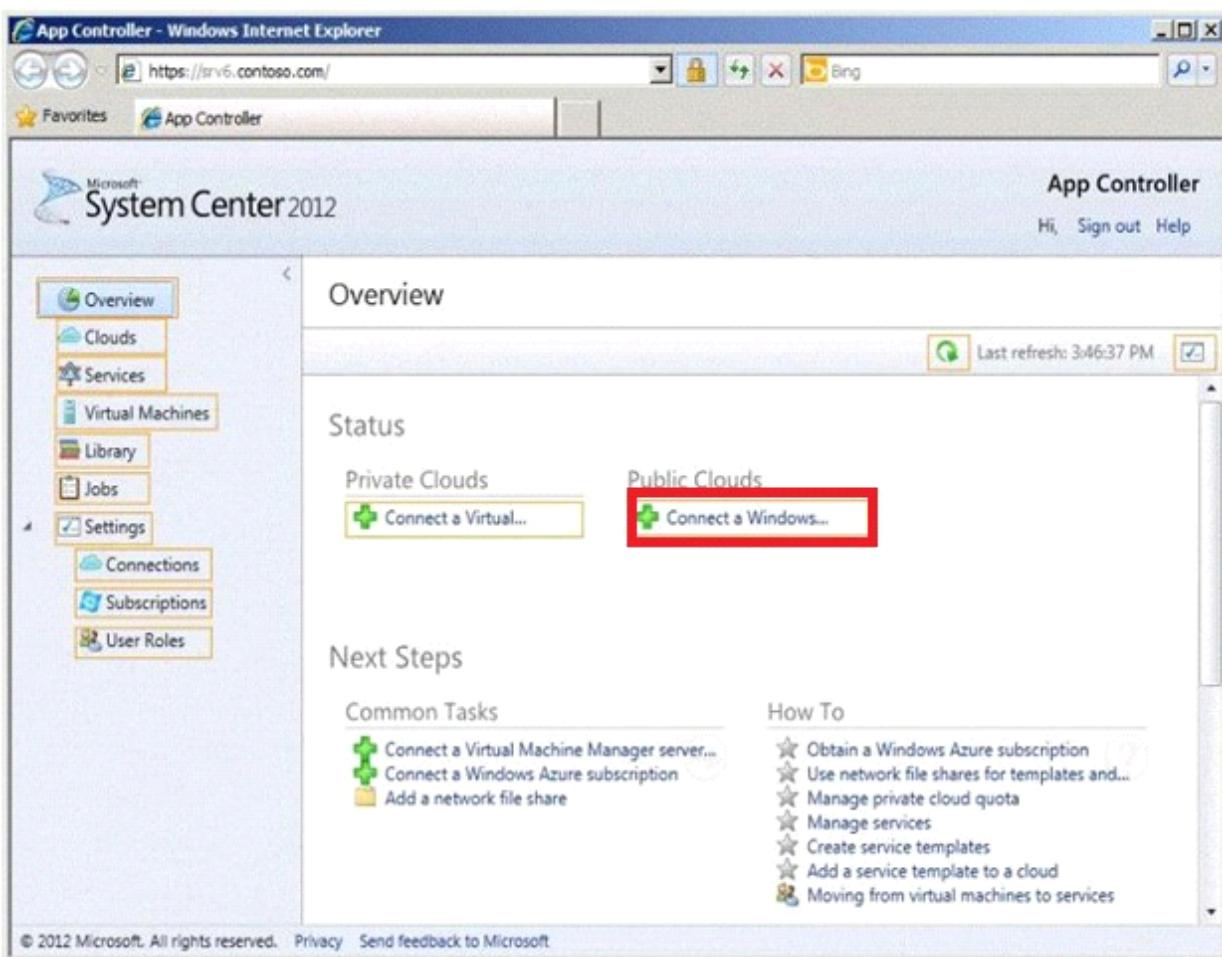
The screenshot shows the Microsoft System Center 2012 App Controller interface. The left sidebar has a tree view with 'Overview' selected. The main content area shows an 'Overview' section with a status bar indicating 'Last refresh: 3:46:37 PM'. Below it is a 'Status' section with 'Private Clouds' and 'Public Clouds' buttons, each with a 'Connect a Virtual...' or 'Connect a Windows...' link.

Explanation:

<http://technet.microsoft.com/en-us/library/hh546551.aspx>

If you are signed in as an Administrator you can also access the logging options by clicking on the icon next to the last refresh time in the toolbar of the Overview page.

The screenshot shows the Microsoft System Center 2012 App Controller interface with a modal dialog box overlaid. The dialog box contains logging configuration options. The 'Current logging:' section has four checkboxes: 'Log verbose traces' (unchecked), 'Log information traces' (unchecked), 'Log warning traces' (checked), and 'Log error traces' (checked). Below this is a 'Logging history size (lines):' input field set to '500'. At the bottom are 'Save Log', 'Copy to Clipboard', 'Clear Log', 'OK', and 'Cancel' buttons. The background shows the 'Overview' section of the App Controller with a red circle around the 'Overview' button in the top left and another red circle around the refresh icon in the top right toolbar.



Configuring Collection of Diagnostic Information

By default, the client will only record errors and warnings up to 500 entries. You can increase or decrease the amount diagnostic information recorded, along with how much history is kept, in the logging options window.

To access the logging options, press **CTRL+ALT+SHIFT+L**.

If you are signed in as an Administrator you can also access the logging options by clicking on the icon next to the last refresh time in the toolbar of the Overview page.

To increase or decrease the types of information recorded, check or clear the boxes on this screen.

To increase or decrease the amount of information recorded, specify the number of lines of information to be recorded. Increasing the number of lines will increase the memory used by the client.

Saving and Viewing Diagnostic Information

To save or view the diagnostic information, open the logging options window. To access the logging options, press **CTRL+ALT+SHIFT+L**.

If you are signed in as an Administrator you can also access the logging options by clicking on the icon next to the last refresh time in the toolbar of the Overview page.

On this page you can choose to copy the log to the clipboard or save the diagnostics to a file. If you copy the diagnostics to the clipboard, you can paste the information into an application such as Notepad to view, or into an e-mail to send to your support engineer.

Question: 23

Your network contains servers that have System Center 2012 Virtual Machine Manager (VMM) installed and servers that have System Center 2012 App Controller installed.

You create a private cloud named Cloud1.

You add a VMM connection in App Controller.

You verify that you can connect to Cloud1 from the App Controller portal.

A user named User1 fails to connect to Cloud1 from the App Controller portal as shown in the exhibit. (Click the Exhibit button.)

You need to ensure that User1 can connect to Cloud1 from the App Controller portal.

What should you do?

- From the App Controller portal, modify the properties of the VMM connection.
- From the App Controller portal, create a User Role.
- From the VMM Administrator Console, modify the properties of Cloud1.
- From the VMM Administrator Console, create a User Role.

Answer: D

Explanation:

You can create user roles in System Center 2012 – Virtual Machine Manager (VMM) to define the objects that users can manage and the management operations that users can perform.

Reference: Creating User Roles in VMM

URL: <http://technet.microsoft.com/en-us/library/gg696971.aspx>

Question: 24

You are the datacenter administrator for a company named Contoso, Ltd.

The network contains a server that has System Center 2012 Virtual Machine Manager (VMM) installed.

You create four private clouds.

Developers at Contoso have two Windows Azure subscriptions.

Contoso creates a partnership with another company named A.Datum.

The A.Datum network contains a System Center 2012 Virtual Machine Manager (VMM) infrastructure that contains three clouds.

Developers at A.Datum have two Windows Azure subscriptions.

You deploy System Center 2012 App Controller at A.Datum.

You plan to manage the clouds and the Windows Azure subscriptions for both companies from the App Controller portal.

You need to identify the minimum number of subscriptions and the minimum number connections required for the planned management.

How many connections and subscriptions should you identify?

- A. Two connections and four subscriptions
- B. Two connections and two subscriptions
- C. Four connections and four subscriptions
- D. Eight connections and four subscriptions
- E. Four connections and two subscriptions

Answer: A

Explanation:

"Contoso has four clouds."

Connecting to a private cloud means establishing a connection to a VMM 2012 Management Server. However, you can also add a Windows Azure subscription to App Controller. Before anyone can use App Controller, an administrator must configure it to communicate with VMM for private clouds, or Windows Azure for public cloud services. Connecting App Controller to VMM is straightforward.

Connecting (or subscribing) App Controller to an Azure subscription requires a little more work.

One of the coolest features of App Controller is its support for multiple connections and subscriptions. If for business reasons you implement different VMM deployments, you can connect App Controller to each deployment. Similarly, if you have multiple subscriptions to the Microsoft Azure service, you can add them to App Controller.

References:

<http://blogs.technet.com/b/server-cloud/archive/2011/10/28/app-controller-enabling-application-self-service.aspx>

<http://www.windowsitpro.com/article/system-center/microsoft-system-center-app-controller-2012-142925>

<http://technet.microsoft.com/en-us/library/gg696038>

Question: 25

DRAG DROP

Your network contains an Active Directory forest named contoso.com. The forest contains a server farm that has Microsoft SharePoint Server 2010 installed.

You deploy System Center 2012 R2 Operations Manager. You deploy the Microsoft Monitoring Agent to all of the servers on the network.

You need to ensure that you can publish Operations Manager dashboards to a SharePoint site.

You copy the required files to SharePoint Server.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Configure the Operations Manager web console environment.	
Import the System Center SharePoint Management Pack for SharePoint Server in Operations Manager.	
Install the Microsoft.EnterpriseManagement.SharePointIntegration.wsp solution package.	
Activate the Operations Manager dashboard Web Part.	
Install the Operations Manager console on the front-end SharePoint servers.	

Answer:

Box 1:

Install the Microsoft.EnterpriseManagement.SharePointIntegration.wsp solution package.

Box 2:

Activate the Operations Manager dashboard Web Part.

Box 3:

Configure the Operations Manager web console environment.

Question: 26

DRAG DROP

You have a System Center 2012 Service Manager infrastructure that contains a Self-Service Portal.

You need to configure the Self-Service Portal to display a service offering that contains a request offering.

Which three actions should you perform before you publish the service offering? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer Area
Create a change request.	
Create a service request template.	
Associate the service offering to the request offering.	
Create a service offering and a request offering.	
Associate the change request to the service request.	
Create a change request template.	

Answer:

Actions	Answer Area
Create a change request.	Create a service request template.
Associate the service offering to the request offering.	Create a service offering and a request offering.
Create a change request template.	Associate the change request to the service request.

Explanation:

<http://scug.be/scdpm/2011/12/31/creating-a-service-offering-through-a-self-service-portal-part-6-createtheofferings/>

Question: 27

HOTSPOT

Your network contains an Active Directory forest named contoso.com.

The network of a prospective client contains an Active Directory forest named fabrikam.com.

You need to design the placement of System Center 2012 R2 components to meet the following requirements:

Ensure that administrators from the contoso.com forest can monitor the computers in both forests.

Minimize the number of firewall ports open between the organizations.

What should you deploy in each forest and which authentication method should you use? To answer, select the appropriate options in the answer area.

Answer Area

Contoso.com forest:

Fabrikam.com forest:

Authentication method:

Answer Area

Contoso.com forest:

 Operations Manager gateway server
 Operations Manager management server
 Web application proxy

Fabrikam.com forest:

 Operations Manager gateway server
 Operations Manager management server
 Web application proxy

Authentication method:

 Certificate authentication
 Kerberos authentication

Answer:

Answer Area

Contoso.com forest:

Operations Manager gateway server
Operations Manager management server
Web application proxy

Fabrikam.com forest:

Operations Manager gateway server
Operations Manager management server
Web application proxy

Authentication method:

Certificate authentication
Kerberos authentication

Question: 28**DRAG DROP**

You have a SAN that contains SSD, SAS, and SATA drives. The SAN contains RAID0 physical partitions and RAID5 physical partitions for each hard disk drive type.

You install System Center 2012 Virtual Machine Manager (VMM).

You need to create 10 LUNs for each RAID type and disk type. The LUNs must be organized based on the disk type.

What order should you perform the listed actions from the VMM Administrator Console? (To answer, move all the actions from the first of actions to the answer area and arrange them in the correct order.)

Actions	Answer Area
Create storage classifications.	
Create LUNs.	
Install the Storage Management Initiative - Specification (SMI-S) providers.	
Discover storage.	
Create WMI classes	

Answer:

Box 1:

Install the Storage Management Initiative - Specification (SMI-S) providers.

Box 2:

Create WMI classes

Box 3:

Discover storage.

Box 4:

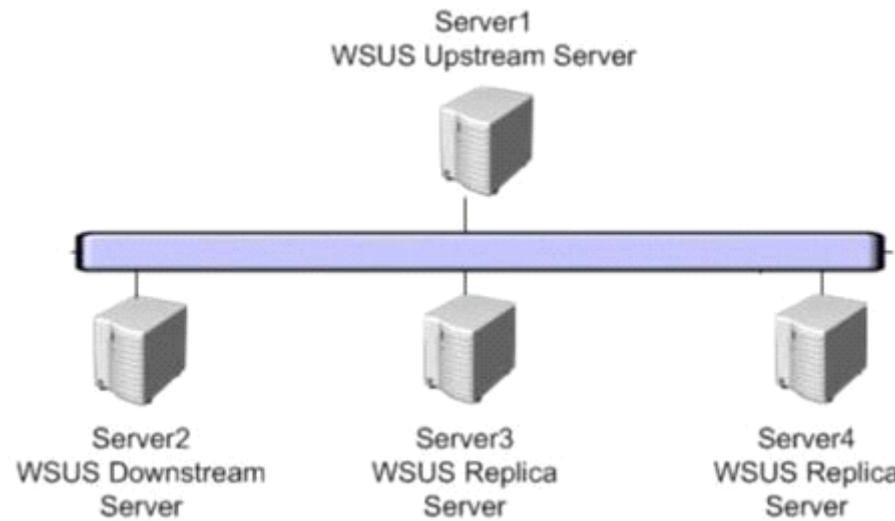
Create storage classifications.

Box 5:

Create LUNs.

Question: 29

Your company has a private cloud that contains a Windows Server Update Services (WSUS) infrastructure as shown in the exhibit. (Click the Exhibit button.)



You plan to add the WSUS infrastructure to the System Center 2012 Virtual Machine Manager (VMM) infrastructure. You need to identify which WSUS servers can be added to the VMM infrastructure.

Which server or servers should you identify? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Server1
- B. Server2
- C. Server3
- D. Server4

Answer: A, B

Explanation:

<http://technet.microsoft.com/en-us/library/gg610633.aspx>
[http://technet.microsoft.com/en-us/library/cc720448\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc720448(v=ws.10).aspx)

Question: 30

You have a private cloud infrastructure that uses System Center 2012 R2 Virtual Machine Manager (VMM).

You plan to host several hundred private clouds for different customers by using the infrastructure.

You need to ensure that all of the customers can use any IP address range in their private cloud.

What is the best approach to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Create a virtual machine network that uses network virtualization.
- B. Install a VMM Network Virtualization for Generic Routing Encapsulation (NVGRE) gateway in each private cloud.
- C. Install the IP Address Management (IPAM) Server feature in each private cloud.
- D. Create a virtual machine network that uses VLAN network isolation.

Answer: A

Explanation:

Network Virtualization introduced in Windows Server 2012 Hyper-V provides administrators with the ability to create

multiple virtual networks on a shared physical network. In this approach to isolation, each tenant gets a complete virtual network, which includes support for virtual subnets and virtual routing. Tenants can even use their own IP addresses and subnets in these virtual networks, even if these conflict with or overlap with those used by other tenants.

Reference: <http://blogs.technet.com/b/scvmm/archive/2013/06/17/logical-networks-part-v-network-virtualization.aspx>

Question: 31

Your company has a private cloud that is managed by a System Center 2012 Virtual Machine Manager (VMM) infrastructure. The infrastructure contains a server named Server1 that has VMM installed.

You plan to deploy the Hyper-V server role to a server named Server2. Server2 runs Windows Server 2008 R2. Server2 is member of a workgroup.

You need to add Server2 to the VMM fabric.

What should you do? (Each correct answer presents part of the solution. Choose three.)

- A. From the VMM Administrator Console, run the Add Resource Wizard, and then click Windows Server computers in a perimeter network.
- B. From the VMM 2012 installation media, install the VMM agent on Server2.
- C. From the VMM Administrator Console, run the Add Resource Wizard, and then click Windows Server computer in an untrusted Active Directory domain.
- D. Copy the SecurityFile.txt file from Server2 to Server1.
- E. From the Services console on Server1, start the SSDP Discovery service.
- F. Copy the ApplicationHost.config file from Server2 to Server1.

Answer: A, B, D

Question: 32

Your network contains a server named Server1 that has System Center 2012 Virtual Machine Manager (VMM) installed.

You plan to deploy a service named Service1. Service1 will contain three tiers. Each tier will contain 10 instances.

You need to configure the service template to ensure that when an application in Service1 is upgraded, Service1 remains available.

What should you configure for each tier?

- A. The maximum instance count
- B. The preferred servicing order
- C. The number of upgrade domains
- D. The minimum instance count
- E. The preferred deployment order

Answer: C

Explanation:

To minimize service interruptions when a tier is updated in-place, you can specify more than one upgrade domain in the tier properties. When the tier is updated, VMM updates the virtual machines in the tier according to the upgrade domain to which they belong. VMM upgrades one upgrade domain at a time, shutting down the virtual machines running within the upgrade domain, updating them, bringing them back online, and then moving on to the next upgrade domain. By shutting down only the virtual machines running within the current upgrade domain, VMM

ensures that an upgrade takes place with the least possible impact to the running service.

Reference:

URL: <http://technet.microsoft.com/en-us/library/gg675089.aspx>

Question: 33

You are creating a Server Application Virtualization (Server App-V) package named Package1 of an application named Appl. Package1 will be included in a System Center 2012 R2 Virtual Machine Manager (VMM) service template.

You need to configure Package1 to ensure that you can modify the settings of App1 from the properties of the service template.

What should you do?

- A. From the Server App-V Sequencer, click Add Deployment Configuration Item.
- B. Modify the SFT file of Package1.
- C. From the Server App-V Sequencer, configure the Properties of the package.
- D. Modify the Open Software Description (OSD) file of Package1.

Answer: A

Question: 34

Your network contains a System Center 2012 Virtual Machine Manager (VMM) infrastructure.

The infrastructure contains 50 virtual machines.

You need to deploy a Microsoft SQL Server dedicated administrator connection (DAC) package to a service.

What should you create from the VMM Administrator Console?

- A. A Run As account
- B. A Capability Profile
- C. A virtual machine template
- D. An Application Profile

Answer: D

Explanation:

<http://technet.microsoft.com/en-us/library/hh427291>

Question: 35

You have a deployment of System Center 2012 R2 Virtual Machine Manager (VMM).

You deploy a service by using a service template.

You need to add an additional tier to the service. The solution must minimize the amount of downtime for the service.

What should you do first from the Virtual Machine Manager console?

- A. Create a new version of the service template.
- B. Use the Clone option.
- C. Create a new service template.
- D. Use the Scale Out option.

Answer: A

Question: 36

You have a System Center 2012 R2 Virtual Machine Manager (VMM) library. The library contains three Guest OS profiles.

The profiles are configured as shown in the following table.

Profile name	Operating system
OSProfile1	32-bit version of Windows Server 2008 Standard
OSProfile2	64-bit version of Windows Server 2008 R2 Standard
OSProfile3	Windows Server 2012 R2 Standard

The library contains two Hardware profiles. The profiles are configured as shown in the following table.

Profile name	Configuration
HWProfile1	Secure Boot enabled
HWProfile2	Legacy network adapter

You plan to create a Generation 1 virtual machine template.

You need to identify which profile CANNOT be used in the new template.

Which template should you identify?

- A. OSProfile3
- B. OSProfile1
- C. HWProfile2
- D. OSProfile2
- E. HWProfile1

Answer: E

Question: 37

Your network contains a System Center 2012 Virtual Machine Manager (VMM) infrastructure. The infrastructure contains 50 Hyper-V hosts.

You plan to deploy Power Optimization for VMM.

You need to prepare the infrastructure for the planned deployment.

What should you do? (Each correct answer presents part of the solution. Choose two.)

- A. Install a Baseboard Management Controller (BMC) on each Hyper-V host.
- B. Enable Dynamic Optimization.
- C. Enable Hibernation.
- D. Enable Performance and Resource Optimization (PRO).
- E. Install a configuration provider on each Hyper-V host.

Answer: A, B

Explanation:

A: To use Power Optimization, the host computers must have a BMC that enables out-of-band management.

B: Power Optimization is an optional feature of Dynamic Optimization, and it is only available when a host group is configured to migrate virtual machines through Dynamic Optimization.

<http://technet.microsoft.com/en-us/library/gg675109.aspx>

Question: 38

You plan to deploy a System Center 2012 infrastructure.

You plan to create and deploy a service named Service1.

You need to recommend a solution to deploy Service1 to a private cloud and a Windows Azure subscription.

What should you include in the recommendation?

- A. System Center 2012 Service Manager
- B. System Center 2012 Virtual Machine Manager (VMM)
- C. The Virtual Machine Manager Self-Service Portal (VMMSSP) 2.0
- D. System Center 2012 App Controller

Answer: D

Question: 39

DRAG DROP

Your network contains the servers shown in the following table.

Server name	Role
Server1	System Center 2012 R2 Virtual Machine Manager (VMM)
Server2	System Center 2012 R2 Service Manager
Server3	System Center 2012 R2 Orchestrator
Server4	Microsoft Hyper-V Server 2012 R2
Server5	System Center 2012 R2 Operations Manager

You plan to provide users with the ability to deploy virtual machines by using the Service Manager Self-Service Portal.

You need to integrate the System Center components to prepare for the planned deployment.

On which server should you perform each action? To answer, drag the appropriate servers to the correct actions. Each server may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Servers	Answer Area	
Server1	Create a connector.	Server
Server2	Install the VMM agent.	Server
Server3	Install the Virtual Machine Manager console.	Server
Server4		
Server5	Install the System Center Integration Pack for System Center 2012 R2 Virtual Machine Manager.	Server

Answer:

Create a connector.	Server2
Install the VMM agent.	Server4
Install the Virtual Machine Manager console.	Server3
Install the System Center Integration Pack for System Center 2012 R2 Virtual Machine Manager.	Server3

Question: 40

Your network contains an Active Directory domain named contoso.com. The domain contains two member servers named Server1 and Server2 that run Windows Server 2012 R2. Server1 has System Center 2012 R2 Virtual Machine Manager (VMM) installed. Server2 has the IP Address Management (IPAM) feature installed. You need to ensure that address spaces created in VMM are visible in IPAM. What should you do?

- A. From the Virtual Machine Manager console, create a service.
- B. From the Virtual Machine Manager console, add a network service.
- C. From Windows PowerShell, run the Enable-IpamCapabilitycmdlet
- D. From Windows PowerShell, run the Add-SCServerFeaturecmdlet

Answer: B

Question: 41

Your network contains a domain named contoso.com. The domain contains five virtualization servers. The servers are configured as shown in the following table.

Server name	Server role
Server1	Windows Server 2008 Service Pack 2 (SP2) Hyper-V server role
Server2	Microsoft Hyper-V Server 2008 R2
Server3	Microsoft Virtual Server 2005 R2
Server4	VMware ESX Server 2.5
Server5	VMware ESX Server 3.5

The network also contains a server named Server6 that runs VMware vCenter Server.

In the domain, you install System Center 2012 Virtual Machine Manager (VMM) on a server named Server7. You configure Server7 to manage Server7.

You need to ensure that you can add all of the servers to the VMM fabric.

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Upgrade Server1 to Hyper-V Server 2008 R2 Service Pack 1 (SP1).
- B. Upgrade Server2 to Hyper-V Server 2008 R2 Service Pack 1 (SP1).
- C. Install Hyper-V Server 2008 R2 Service Pack 1 (SP1) on Server3.
- D. Install Hyper-V Server 2008 R2 Service Pack 1 (SP1) on Server4.
- E. Install Hyper-V Server 2008 R2 Service Pack 1 (SP1) on Server5.

Answer: C, D

Question: 42

Your company has a private cloud managed by a System Center 2012 Virtual Machine Manager (VMM) infrastructure. The server fabric contains three servers named Host1, Host2, and Host3. The servers are configured as shown on the following table.

Server name	Server role	Host group	Connection
Host1	Hyper-V host VMM library	HG1	Fibre Channel
Host2	VMM library	HG2	iSCSI
Host3	Hyper-V host	HG3	Fibre Channel

The networking fabric contains a SAN named STORAGE1. STORAGE1 supports cloning.

You create a SAN copy-capable template named Template1 for a new virtual machine. Template1 uses a VHD stored on Host2.

You need to ensure that Template1 can be used to provision virtual machines on Host1 and Host3. The solution must use the minimum amount of administrative effort and must use SAN cloning.

What should you do? (Each correct answer presents part of the solution. Choose two.)

- A. Move Template1 to Host1.

- B. Move Template1 to Host3.
- C. Add Host1 to HG2.
- D. Configure Host2 to use Fibre Channel connection.
- E. Configure Host3 to use an iSCSI connection.
- F. Add Host3 to HG1.

Answer: A, F

Explanation:

Put the template on the Library server (host 1).

Add the second host (host3) to the Host group on the library server (host1).

Reference: Rapid Provisioning of Virtual Machines Using SAN Copy Overview

URL: <http://technet.microsoft.com/en-us/library/gg610594.aspx>

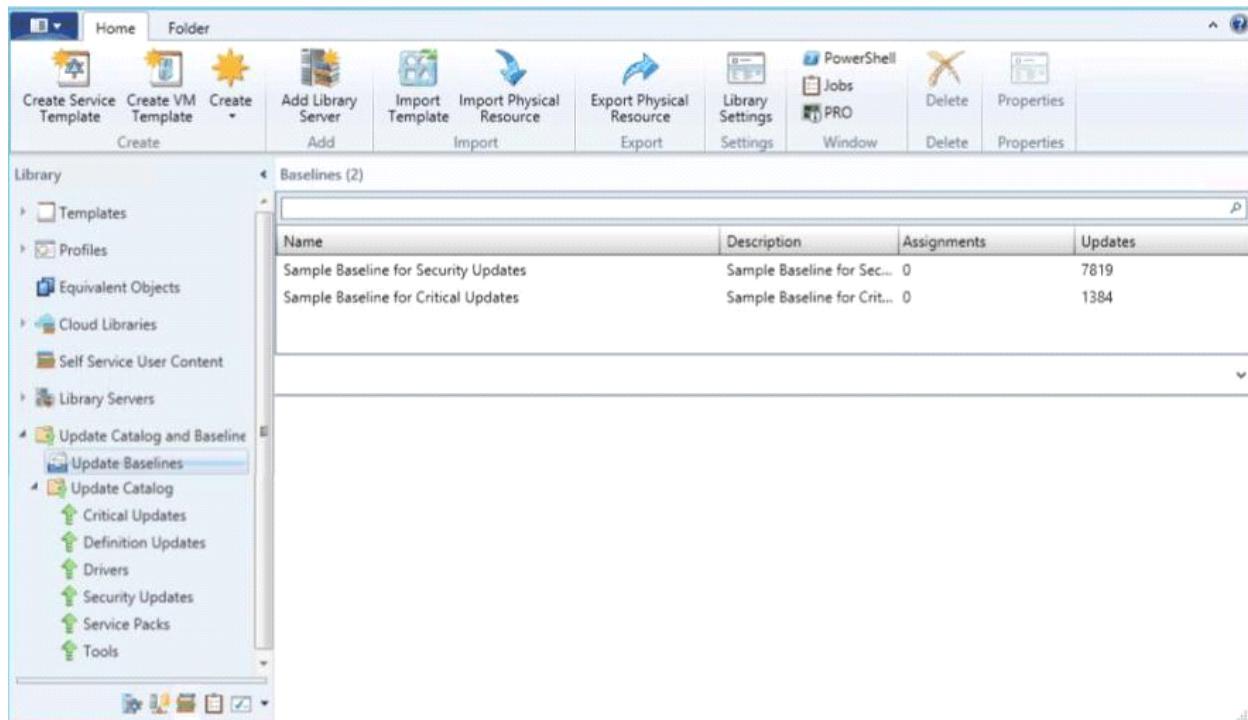
Question: 43

HOTSPOT

You deploy System Center 2012 R2 Virtual Machine Manager (VMM). You configure integration between VMM and Windows Server Update Services (WSUS).

You deploy several new Hyper-V hosts. The Hyper-V hosts are managed by using VMM.

The Virtual Machine Manager console is configured as shown in the exhibit. (Click the Exhibit button.)



Use the drop-down menus to select the answer choice that completes each statement.

Answer Area

The Drivers update classification
on the WSUS server is [answer
choice]

All Hyper-V hosts will [answer
choice]

Answer Area

The Drivers update classification on the WSUS server is [answer choice]

▼	disabled.
▼	enabled.

All Hyper-V hosts will [answer choice]

▼	receive critical updates.
▼	receive service packs.
▼	receive security updates.
▼	not receive updates

Answer:**Answer Area**

The Drivers update classification on the WSUS server is [answer choice]

▼	disabled.
▼	enabled.

All Hyper-V hosts will [answer choice]

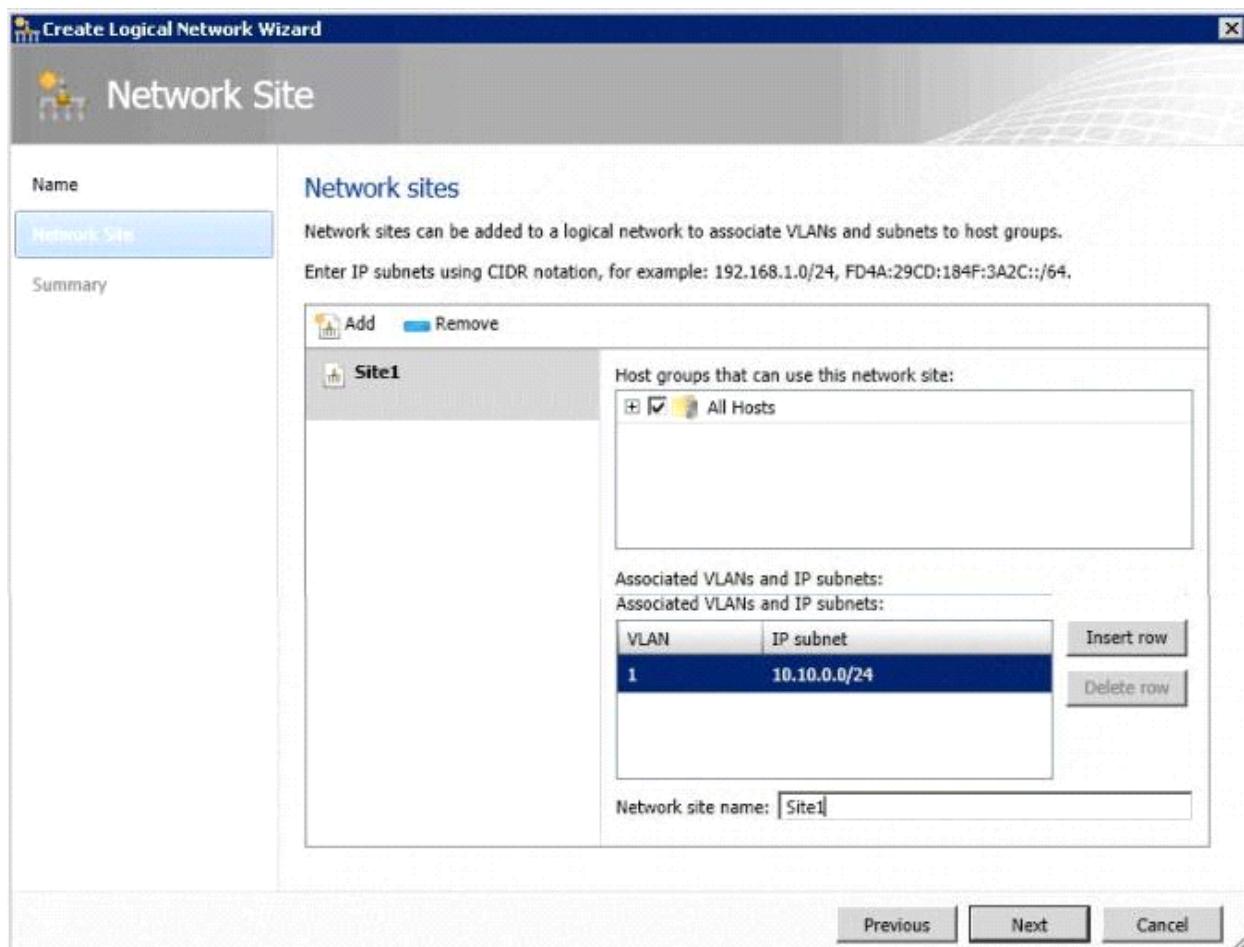
▼	receive critical updates.
▼	receive service packs.
▼	receive security updates.
▼	not receive updates

Question: 44

You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure that contains one virtualization host named Server1.

You configure a logical network named Network1 that contains a network site named Site1. DHCP allocates IP addresses on the network.

You configure the logical network as shown in the exhibit. (Click the Exhibit button.)



You need to ensure that the virtual machines on VLAN 1 are assigned IP addresses from DHCP only. What should you do?

- From the Network Site properties, remove the subnet assignment.
- From Windows Firewall on Server1, create an inbound rule.
- From the Network Site properties, remove the VLAN assignment.
- From the logical network configuration, remove the network site.

Answer: A

Explanation:

Reference:

<http://technet.microsoft.com/en-us/library/gg610596.aspx>

If you want to use DHCP that is already available on the network to assign IP addresses to virtual devices in a specified VLAN, create network sites with only VLANs assigned.

Question: 45

Your company has a datacenter in Los Angeles.

The datacenter contains a System Center 2012 Virtual Machine Manager (VMM) infrastructure. The VMM infrastructure contains a server named VMM1.

You have a host group named HostGroup1. HostGroup1 contains four virtualization hosts named Host1, Host2, Host3, and Host4.

You plan to provide users with the ability to deploy virtual machines by using the Self-Service Portal.

The company's security policy states that only the members of a group named VMMAdmin1 can place virtual machines on Host1 and Host2 and only the members of a group named VMMAdmin2 can place virtual machines on Host3 and Host4.

You need to recommend a cloud configuration to meet the requirements of the security policy.

What should you recommend?

- A. Create two host groups named HostGroup1\Group1 and HostGroup1\Group2. Create one cloud for each new host group. Move two servers to each host group
- B. Create a host group named HostGroup1\HostGroup2. Create one cloud for HostGroup1 and one cloud for HostGroup2. Move two servers to HostGroup2.
- C. Create two clouds named Private1 and Private2. Configure the custom properties of each cloud.
- D. Create two clouds named Private1 and Private2. Configure placement rules for HostGroup1.

Answer: A

Question: 46

Your company has a private cloud that is managed by a System Center Service Manager 2010 Service Pack 1 (SP1) infrastructure. The infrastructure contains four servers as shown in the following table.

Server name	Server role
MGT1	Management server
DATA1	Data warehouse management server
SSRS1	Microsoft SQL Server Reporting Services
SQL1	Microsoft SQL Server

You upgrade MGT1 and DATA1 to Service Manager 2012.

You need to ensure that DATA1 can continue to deploy reports to SSRS1.

Which two tasks should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Copy the Microsoft.EnterpriseManagement.Reporting.Code.dll file to SSRS1.
- B. Modify the RSReportServer.config file on MGT1.
- C. Modify the RSReportServer.config file on SSRS1.
- D. Modify the RSSrvPolicy.config file on DATA1.
- E. Modify the RSSrvPolicy.config file on SQL1.
- F. Copy the Microsoft.EnterpriseManagement.Reporting.Code.dll file to SQL1.

Answer: A, C

Question: 47

You have a virtual application package named Appl. You need to deploy App1 to a test environment.

Which Windows PowerShell cmdlets should you use?

- A. Add-ServerAppVPackage and Start-ServerAppVPackage
- B. Add-SCApplicationDeployment and Start-ServerAppVPackage
- C. New-ServerAppVSequencerPackage and Set-ServerAppVPackageConfiguration
- D. Add-ServerAppVPackage and Set-SCApplicationPackage

Answer: A

Explanation:

Reference:

<http://technet.microsoft.com/en-us/library/gg703267>

Question: 48

DRAG DROP

You have a deployment of System Center 2012 R2 Virtual Machine Manager (VMM).

You have two virtual machines named Server1 and Server2 that run Windows Server 2012 R2.

You have an application named Appl.

You plan to deploy App1 to Server1 as an Application Virtualization (App-V) package.

You need to install the required components to deploy App1 to Server1.

Which component should you install on each server? To answer, drag the appropriate components to the correct servers. Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Components	Answer Area
Application Integration Framework (AIF)	Server1: <input type="text"/> Component
Monitoring Pack for App-V	Server2: <input type="text"/> Component
Server App-V Agent	
Server App-V Sequencer	
VMM agent	

Answer:

Server1: Server App-V Agent

Server2: Server App-V Sequencer

Question: 49

Your company uses System Center 2012 R2 Operations Manager.

A technician manually installs the Microsoft Monitoring Agent on a server named Server1.

You discover that the agent is configured to use the wrong primary management server.

You need to change the primary management server used by Server1.

What should you do on Server1?

- From the properties of the Microsoft Monitoring Agent, edit the management group and restart Microsoft Monitoring Agent service.
- From Notepad, edit Monitoringhost.exe.config and restart the Microsoft Monitoring Agent service.
- From the properties of the Microsoft Management Agent, remove the management group and add a new management group.

D. From File Explorer, run momagent.msi and select Repair.

Answer: D

Question: 50

HOTSPOT

You have a private cloud that contains a System Center 2012 R2 infrastructure.

You have the service level tracking objects configured as shown in the exhibit (Click the Exhibit button.)

Name	Targeted class
SLA1	.NET 3-Tier Application
SLA2	Network Service
SLA3	Service
SLA4	Messaging

Use the drop-down menus to select the answer choice that completes each statement.

Answer Area

A dashboard that includes [answer choice] will display application reliability.

A dashboard that includes [answer choice] will display the status of Windows services.

Answer Area

A dashboard that includes [answer choice] will display application reliability.

SLA1
SLA2
SLA3
SLA4

A dashboard that includes [answer choice] will display the status of Windows services.

SLA1
SLA2
SLA3
SLA4

Answer:**Answer Area**

A dashboard that includes [answer choice] will display application reliability.

SLA1
SLA2
SLA3
SLA4

A dashboard that includes [answer choice] will display the status of Windows services.

SLA1
SLA2
SLA3
SLA4

Question: 51**DRAG DROP**

Your network contains an Active Directory domain named adatum.com.

You plan to install System Center 2012 Virtual Machine Manager (VMM) on a server in the domain.

You create a failover cluster that contains two nodes named Node1 and Node2.

You configure an account named adatum\scvmm as the service account for VMM.

You start installing VMM 2012 on Node1.

You need to ensure that the encryption keys used by VMM are available on Node1 and Node2.

Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer area
Create a folder named Data1 on each node.	
Click the Local key management option during the setup of VMM.	
Assign the Read permissions to adatum\scvmm on Data1.	
Click the Distributed key management option during the setup of VMM.	
Create a container in adatum.com named SCVMM1.	
Assign the Read, Write, Create All Child objects permissions to contoso\scvmm on SCVMM1.	

Answer:

Box 1:

Create a container in adatum.com named SCVMM1.

Box 2:

Assign the Read, Write, Create All Child objects permissions to contoso\scvmm on SCVMM1.

Box 3:

Click the **Distributed key management** option during the setup of VMM.

Explanation:

Reference: Configuring Distributed Key Management in VMM

URL: <http://technet.microsoft.com/en-us/library/gg697604.aspx>**Question: 52**

Your company has a primary data center and a secondary data center. The primary data center contains five servers. The servers are configured as shown in the following table.

Server name	Role
Server1	Microsoft Exchange Server 2013
Server2	Microsoft SharePoint Server 2010
Server3	Hyper-V host
Server4	File server
Server5	Microsoft System Center 2012 R2 Data Protection Manager (DPM)

You plan to configure Server5 to protect the data from all of the servers on the network.

You need to recommend a backup solution that meets the following requirements:

The data must be available if the primary data center fails.

The solution must retain data for up to two years.

Which two actions should you include in the recommendation? Each answer presents part of the solution.

- A. Deploy a secondary DPM server to the primary data center and configure the new DPM server to protect Server5.
- B. Deploy a primary DPM server to the secondary data center and configure the new DPM server to protect the physical disks on Server5.
- C. On Server5, back up the data on all of the protected servers to Windows Azure Recovery Services.
- D. Deploy a secondary DPM server to the secondary data center and configure the new DPM server to protect

Server5.

- E. On Server5, back up the data on all of the protected servers to physical disks.

Answer: C, D

Question: 53

Your network contains an Active Directory domain. The domain contains two servers named Server1 and Server2. Server1 has System Center 2012 Virtual Machine Manager (VMM) installed. Server2 has System Center 2012 Operations Manager installed.

You need to configure Operations Manager to monitor the VMM infrastructure.

Which three management packs should you install on Server2? (Each correct answer presents part of the solution. Choose three.)

- A. the Internet Information Services 7 Monitoring Management Pack
- B. the Microsoft SQL Server Monitoring Management Pack
- C. the File Services Management Pack
- D. the Windows Server Hyper-V Management Pack
- E. the Monitoring Pack for Active Directory (AD)
- F. the Windows Server Operating System Management Pack
- G. Windows Server DNS 2003/2008/2008 R2 Monitoring Management Pack

Answer: A, B, F

Question: 54

You configure the System Center 2012 Service Manager connector for System Center 2012 Virtual Machine Manager (VMM).

You need to ensure that users can access the VMM data from the System Center Service Manager console.

Which two tasks should you perform from the System Center Service Manager console? (Each correct answer presents part of the solution. Choose two.)

- A. Import the VMM management packs.
- B. Create a catalog group.
- C. Create a type projection.
- D. Import the VMM classes by using the CSV connector.
- E. Create views based on VMM classes.

Answer: A, E

Question: 55

DRAG DROP

You manage a System Center 2012 R2 Virtual Machine Manager (VMM) deployment that contains the virtual machines configured as shown in the following table.

Name	Operating system	Operating system disk size	Data disk size (GB)	Generation
VM1	Windows Server 2012	2048 GB	Not applicable	Gen1
VM2	Windows 8.1	127 GB	150 GB	Gen2
VM3	Windows Server 2012 R2	100 GB	1024 GB	Gen1

You plan to protect the virtual machines by using Microsoft Azure Site Recovery. You will use Azure as the recovery site.

You need to identify which configurations prevent the virtual machines from being protected by using Azure Site Recovery.

Configurations

- Data disk size
- Generation
- Operating system

Answer Area

- VM1: Configuration
- VM2: Configuration
- VM3: Configuration

Configurations

- Data disk size
- Generation
- Operating system

Answer Area

- VM1: Data disk size
- VM2: Operating system
- VM3: Configuration

Explanation:

* VM1

Maximum disk size—The current maximum size of the disk that can be attached to a virtual machine is 1 TB. Thus the maximum size of a source disk that can be replicated is also limited to 1 TB.

* VM2

A supported 64-bit operating system: Windows Server 2012 R2, Windows Server 2012, or Windows Server 2008 R2 with at least SP1.

* VM3 is OK

Reference: Set up protection between on-premises VMware virtual machines or physical servers and Azure

<https://azure.microsoft.com/en-us/documentation/articles/site-recovery-vmware-to-azure/>

Question: 57

You have a System Center 2012 Service Manager infrastructure that contains a Self-Service Portal. The corporate network access policy states that users must be assigned the minimum number of permissions to access the network resources. You need to ensure that a user named Testuser5 can create incidents by using the Self-Service Portal. The solution must meet the requirements of the network access policy . Which permissions should you assign to Testuser5 from Site Settings?

- A. Design
- B. Full Control
- C. Read

D. Contribute

Answer: D

Explanation:

<http://office.microsoft.com/en-us/windows-sharepoint-services-help/permission-levels-and-HA010100149.aspx> permissions-

Question: 58

Your company has a private cloud that is managed by using a System Center 2012 Operations Manager infrastructure. You deploy Microsoft Share Point Foundation 2010. You have an Operations Manager Web Part. You need to ensure that the Web Part is available on the SharePoint site. What should you do first?

- A. Configure the Web Part solution.
- B. Deploy the Web Part to the SharePoint site.
- C. Configure the Web Part to use shared credentials.
- D. Add the Web Part to a webpage.

Answer: B

Explanation:

<http://technet.microsoft.com/en-us/library/hh212924.aspx> Before you can add the Operations Manager Web Part to a SharePoint page, the Web Part must be deployed to the SharePoint site.

Question: 59

Your network contains an Active Directory forest named contoso.com. You install System Center 2012 Virtual Machine Manager (VMM) on a server named Server1. Users report that they fail to log on to the Virtual Machine Manager Self-Service Portal (VMMSSP). You need to ensure that users call log on to the VMMSSP.

What should you do first?

- A. From the Virtual Machine Manager command shell, run the New-SCUserRole cmdlet and the Set SCUserRole cmdlet.
- B. From Internet Information Services (IIS) Manager on Server1, modify the Authentication settings.
- C. From Authorization Manager, create a role definition and a role assignment.
- D. From the VMM Administrator Console, run the Create Run As Account Wizard

Answer: A

Explanation:

<http://technet.microsoft.com/en-us/library/hh801722.aspx> The New-SCUserRole cmdlet creates a user role for a group of System Center Virtual MachineManager (VMM) users. You can create the following user roles: Delegated Administrator, Read-Only Administrator, and Self-Service User. Only one Administrator role exists; you cannot create another Administrator role or delete the existing one. If you are a member of a Delegated Administrator user role, you can create a user role. However, the scope of the new user role must be a subset of the scope of its parent user role. After you create a user role, you can use the Set-SCUserRole cmdlet to rename the user role, to add or remove members, and to add or modify the scope of objects that members of the role can manage. For a self-service user role, you can specify which actions members of a self-service user role can take on their virtual machines, and you can define a quota that limits the number of virtual machines self-service users can create. Although you cannot create or

remove the Administrator role or limit its scope, you can use Set-SCUserRole to add or remove members to that role.

Question: 60

Your company has a datacenter in Los Angeles. The datacenter contains a server named VMM1 that has System Center 2012 Virtual Machine Manager (VMM) installed.

You plan to deploy a service named SRV1. SRV1 will contain three tiers. Each tier will contain 8 instances.

You need to configure the service template to ensure that when an application in SRV1 is upgraded, SRV1 remains available.

What should you configure for each tier?

- A. the preferred deployment order
- B. the maximum instance count
- C. the minimum instance count
- D. the number of upgrade domains
- E. the preferred servicing order

Answer: D

Explanation:

<http://technet.microsoft.com/en-us/library/gg675089.aspx> To minimize service interruptions when a tier is updated in-place, you can specify more than one upgrade domain in the tier properties. When the tier is updated, VMM updates the virtual machines in the tier according to the upgrade domain to which they belong. VMM upgrades one upgrade domain at a time, shutting down the virtual machines running within the upgrade domain, updating them, bringing them back online, and then moving on to the next upgrade domain. By shutting down only the virtual machines running within the current upgrade domain, VMM ensures that an upgrade takes place with the least possible impact to the running service.

Question: 61

Your company has a private cloud that contains 200 virtual machines. The network contains a server named Server1 that has the Microsoft Server Application Virtualization (Server App-V) Sequencer installed.

You plan to sequence, and then deploy a line-of-business web application named App1.

App1 has a Windows Installer package named Install.msi. App1 must be able to store temporary files. You need to identify which task must be performed on Server1 before you deploy App1.

What task should you identify?

- A. Add a script to the OSD file.
- B. Install the Web Server (IIS) server role.
- C. Modify the environment variables.
- D. Compress Install.msi.

Answer: B

Explanation:

<http://blogs.technet.com/b/serverappv/archive/2012/05/09/server-app-v-recipe-ws-ftp-server.aspx> Before sequencing, prepare the OS by installing the following prerequisites:

1. IIS Web Server role (ensure IIS management scripts and tools are installed)
2. WebDeploy 2.0

Question: 62

Your company has a System Center 2012 infrastructure. The infrastructure contains the App Controller and Virtual Machine Manager (VMM) roles.

You deploy a service named SRV1 to the production environment in the public cloud. You also deploy SRV1 to a staging environment in the public cloud.

You perform upgrades to SRV1 in the staging environment.

You need to apply the upgrades from the staging environment to the production environment.

What should you do?

- A. From the VMM Administrator Console, create a new virtual machine template.
- B. From the App Controller portal, perform an environment swap upgrade.
- C. From the VMM Administrator Console, create a new service.
- D. From the App Controller portal, import an SSL certificate.
- E. From the VMM Administrator Console, create a new service template.

Answer: B

Explanation:

<http://technet.microsoft.com/en-us/library/hh221342.aspx> Public cloud services can be upgraded in one of two ways: an environment swap or an in-place upgrade. An environment swap places the staging environment into the production environment. As the swap occurs, the existing production environment is moved into the staging environment. An in-place upgrade replaces the existing binaries and settings with new binaries and settings.

Question: 63

You have a System Center 2012 Virtual Machine Manager (VMIM) infrastructure that contains a server named Server1. Server1 hosts the VMM library.

You add a server named Server2 to the network. You install the Windows Deployment Services (WDS) server role on Server2. You have the Install.wim file from the Windows Server 2008 R2 Service Pack 1 (SP1) installation media.

You need to install Hyper-V hosts by using the bare-metal installation method.

What should you do first?

- A. Convert Install.wim to a .vmc file.
- B. Convert Install.wim to a .vhf file.
- C. Add Install.wim to the VMM library.
- D. Add Install.wim to the Install Images Container.

Answer: B

Explanation:

For the bare metal deployment, you need an operating system and one of the first steps to take is to create a bootable VHD for that operating system. This is done by using the WIM2VHD tool to take the install.wim file from your Windows Server 2008 R2 SP1 installation media and convert it.

Question: 64

You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure that contains 20 virtualization hosts.

Each host contains 20 virtual machines. You need to configure the network fabric.

The solution must prevent the virtual machines from connecting to a VLAN.

What should you do from the Network Site properties?

- A. set the VLAN ID to 0.
- B. set the VLAN ID to 10.
- C. set the IP subnet to FD4A::/32.
- D. set the IP subnet to 192.168.1.0/20.

Answer: A

Explanation:

VLAN 0 means you want VLAN disabled. Use this setting when you don't care about VLAN IDs.

Question: 65

You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure that contains a virtualization host named Server2. Server2 runs Windows Server 2008 R2 Service Pack 1 (SP1). Server2 has the Hyper-V server role installed. You plan to deploy a service named Service1 to Server2. Service1 has multiple load-balanced tiers.

You need to recommend a technology that must be implemented on Server2 before you deploy Service1.

What should you recommend?

- A. TCP offloading
- B. the Network Policy and Access Services (NPAS) server role
- C. the Multipath I/O (MPIO) feature
- D. MAC address spoofing

Answer: D

Explanation:

<http://technet.microsoft.com/en-us/library/hh335098.aspx> If you want to deploy the service to a Windows Server 2008 R2-based Hyper-V host (with or without Service Pack 1), you must also enable MAC address spoofing for NLB to work correctly. If you do not, service deployment will fail. However, you cannot use the Enable spoofing of MAC addresses check box in the virtual machine template or the associated hardware profile to configure this setting. Instead, you must use the VMM command shell to configure this setting after you create the template, or in the hardware profile that you use for the template.

Question: 66

You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure that contains five virtualization hosts. You add new storage to the network. You need to discover the storage from the VMM Administrator Console.

What should you create first?

- A. a Hardware Profile
- B. a classification
- C. a Run As Account
- D. a Guest as Profile

Answer: C

Explanation:

<http://technet.microsoft.com/en-us/library/gg610563>

Question: 67

Your network contains three datacenters. The datacenters are hosted in Seattle, Montreal, and Orlando. You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure. You open the VMM Administrator Console as shown in the Administrator Console exhibit. (Click the Exhibit button.)

A user who is a member of the User1 role opens the VMM Administrator Console as shown in the User1 Console exhibit. (Click the Exhibit button.)

You need to ensure that User1 can view the servers in the Seattle host group. What should you configure from the VMM Administrator Console?

- A. the General property of the Seattle host group
- B. the Run As Accounts property of User1
- C. the Access property of a Run As Account
- D. the Scope property of User1

Answer: D

Explanation:

The actual exam exhibit shows admin console with all three Clouds listed where User1's console only has Montreal cloud listed.

Question: 68

Your company has a private cloud that is managed by a server named Server1. Server1 has System Center 2012 Virtual Machine Manager (VMM) installed. You add a Hyper-V host named Server2 to the server fabric. Server2 is connected to a SAN named SAN1 by using Fiber Channel connections.

You need to optimize access to the LUNs in SAN1 from Server2. What should you do first?

- A. Install the Multipath I/O (MPIO) feature on Server2.
- B. Configure Server2 to connect to SAN 1 by using an iSCSI channel.
- C. Install the Multipath I/O (MPIO) feature on Server1.
- D. Configure Server1 to connect to SAN 1 by using an iSCSI channel.

Answer: A

Explanation:

<http://technet.microsoft.com/en-us/library/gg610692.aspx> The Multipath I/O (MPIO) feature must be added on each host that will access the Fibre Channel or iSCSI storage array. You can add the MPIO feature through Server Manager. If the MPIO feature is already enabled before you add a host to VMM management, VMM will automatically enable MPIO for supported storage arrays by using the Microsoft provided Device Specific Module (DSM). If you already installed vendor-specific DSMs for supported storage arrays, and then add the host to VMM management, the vendor-specific MPIO settings will be used to communicate with those arrays.

Question: 69

You install System Center 2012 Virtual Machine Manager (VMM) on a server named Server1.

You configure the VMM fabric for networking.

You need to create an IP address pool.

What should you create first?

- A. a Run As Account
- B. a Hardware Profile
- C. a logical network
- D. a VIP template

Answer: C

Explanation:

<http://technet.microsoft.com/en-us/library/gg610590.aspx>

Question: 70

Your network contains a server named Server1 that has System Center 2012 Virtual Machine Manager (VMM) installed. You have a host group named HG1. HG1 contains four virtualization hosts named Server2, Server 3, Server4, and Server5.

You plan to provide users with the ability to deploy virtual machines by using the Self-Service Portal.

The corporate management policy states that only the members of a group named Group1 can place virtual machines on Server2 and Server3 and only the members of a group named Group2 can place virtual machines on Server4 and Server5.

You need to recommend a cloud configuration to meet the requirements of the management policy.

What should you recommend?

- A. Create two clouds named Cloud1 and Cloud2. Configure placement rules for HG1.
- B. Create two host groups named HG1\Group1 and HG1\Group2. Create one cloud for each new host group. Move two servers to each host group.
- C. Create two clouds named Cloud1 and Cloud2. Configure the custom properties of each cloud.
- D. Create a host group named HG1\HG2. Create one cloud for HG1 and one cloud for HG2. Move two servers to HG2.

Answer: B

Explanation:

<http://technet.microsoft.com/en-us/library/bb740793>

Question: 71

Your company has a datacenter in Los Angeles.

The datacenter contains the following servers:

- A server named App1 that has System Center 2012 App Controller installed.
- A server named Portal1 that has the Windows Azure Subscription Management Portal installed.
- A server named Server1 that has Active Directory Certificate Services (AD CS) installed.

You need to configure a connection from App1 to a Windows Azure subscription. The solution must ensure that you can manage the subscription from Portal1. You issue a certificate from Server1 and then export it. What should you do next? (Each correct answer presents part of the solution. Choose two.)

- A. From App1, import the certificate.
- B. From Portal1 , import the certificate.
- C. Request a new certificate to be used on App1.
- D. Request a new certificate to be used on Portal1.

Answer: A, B

Explanation:

<http://technet.microsoft.com/en-us/library/hh221344.aspx>
2012-app-controller-connecting-to-windows-azure/
http://kevingreeneitblog.blogspot.com/2011/11/cloud-management-with-system-center_3126.html

<http://www.thomasmaurer.ch/2012/06/system-center-2012-app-controller-connecting-to-windows-azure/>
http://kevingreeneitblog.blogspot.com/2011/11/cloud-management-with-system-center_3126.html

Question: 72

You have a System Center 2012 Service Manager infrastructure and a System Center 2012 Operations Manager infrastructure. You enable the Alert Connector in Service Manager. Operations Manager has the Microsoft SQL Server Monitoring Management Pack installed. You plan to configure the Alert Connector to receive SQL Server alerts from Operations Manager.

You need to prepare the Service Manager infrastructure for the planned configuration. Which two tasks should you perform? (Each correct answer presents a complete solution. Choose two.)

- A. Install the SQL Server Notification Services.
- B. Enable the Operations Manager CI connector.
- C. Import the SQL Server Management Pack.
- D. Create a runbook.
- E. Create a notification channel.
- F. Create an incident template.

Answer: B, C

Explanation:

B: In System Center 2012 Service Manager, there are two types of connectors for System Center Operations Manager. You use the first type of connector, the alert connector, to automatically generate incidents that are based on Operations Manager alerts. You use the second type of connector, the configuration item (CI) connector, to import discovered objects from Operations Manager as configuration items into the Service Manager database.

C:

- * You must import some System Center Operations Manager management packs into Service Manager. When you install Service Manager, a set of System Center Operations Manager management packs for common objects and the required Windows PowerShell scripts are copied to your Service Manager installation folder.
- * For the Operations Manager CI connector to function correctly, you have to import a set of management packs into Service Manager.

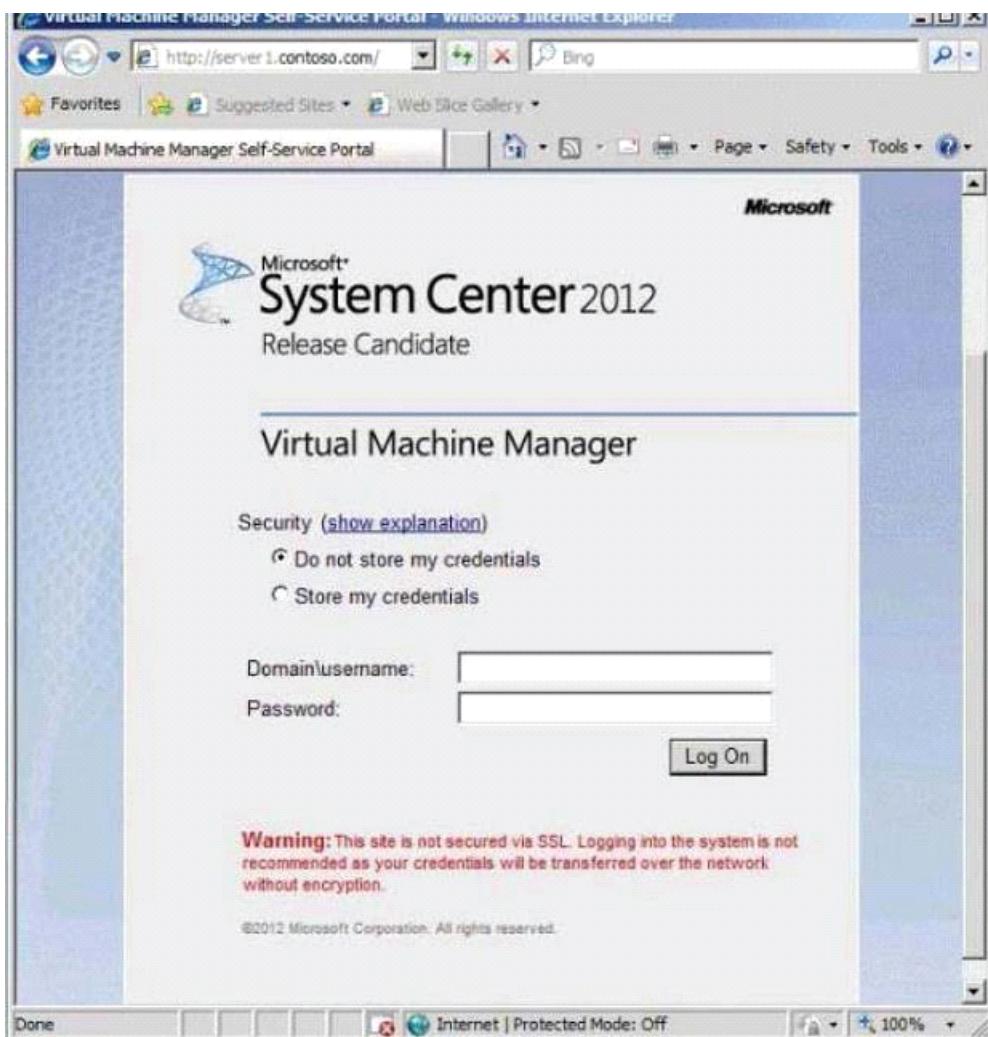
<http://technet.microsoft.com/en-us/library/hh524325.aspx>

Question: 73

Your network contains an Active Directory domain named contoso.com. Certificate autoenrollment is configured for all client computers in the domain.

You install System Center 2012 Virtual Machine Manager (VMM) on a server named Server1. You install the Virtual Machine Manager Self-Service Portal (VMMSSP) on Server1.

Users report that they receive the message shown in the exhibit when they connect to the VMMSSP. (Click the Exhibit button.)



You need to ensure that the users connect to the VMMSSP by using HTTPS.

What should you do?

- From the Certificates console, add a Cross-Certificate download URL.
- From Internet Information Services (IIS) Manager, modify the binding settings.
- From the VMM Administrator Console, modify the Network Settings.
- From Internet Information Services (IIS) Manager 6.0, modify the security communication settings.

Answer: B

Explanation:

<http://technet.microsoft.com/en-us/library/dd548288.aspx>

Question: 74

You have a System Center 2012 Service Manager infrastructure that contains two servers named Server1 and Server2. A user named TestUser5 is unable to modify work items and configuration items. You need to ensure that TestUser5 is assigned the necessary permissions to perform the following tasks:

- Create and update work items.
- Create and update configuration items.

To which User Role Profile should you add TestUser5?

- A. Change Initiators
- B. Problem Analyst
- C. Incident Resolvers
- D. Advanced Operators

Answer: D

Explanation:

<http://technet.microsoft.com/en-us/library/ff461054>

Question: 75

Your network contains an Active Directory forest named contoso.com. The forest contains a System Center 2012 Operations Manager infrastructure.

Your company, named Contoso Ltd., has a partner company named A. Datum Corporation. The A. Datum network contains an Active Directory forest named adatum.com. Adatum.com does not have any trusts. A firewall exists between the A. Datum network and the Contoso network. You configure conditional forwarding on all of the DNS servers to resolve names across the forests.

You plan to configure Operations Manager to monitor client computers in both of the forests. You need to recommend changes to the infrastructure to monitor the client computers in both of the forests.

What should you include in the recommendation? (Each correct answer presents part of the solution. Choose two.)

- A. Allow TCP port 5723 on the firewall.
- B. Deploy a gateway server to adatum.com.
- C. Create a DNS zone replica of adatum.com.
- D. Allow TCP port 5986 on the firewall.
- E. Create a DNS zone replica of contoso.com.
- F. Deploy a gateway server to contoso.com.

Answer: A, B

Explanation:

A: Gateway, System Center Management service, 5723/TCP

B: if there is a firewall between the agents and management servers, multiple authorized endpoints must be defined and maintained in the firewall rules to allow communication between them.

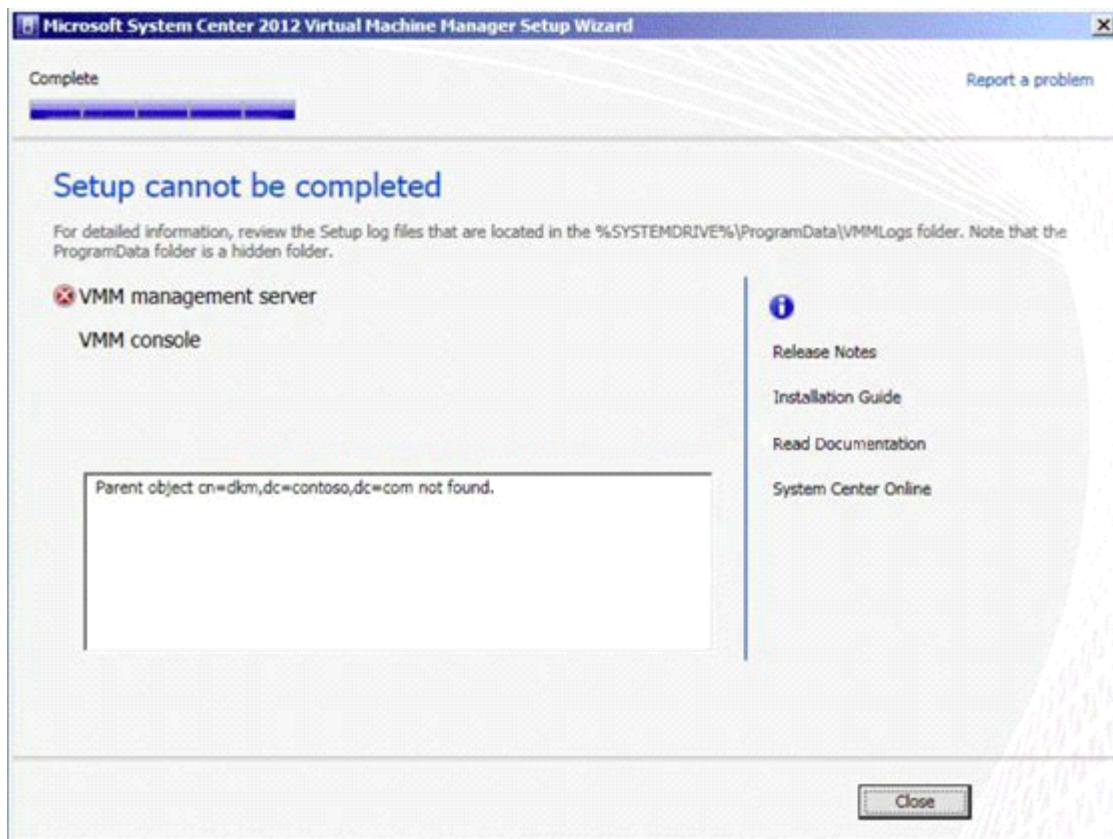
To reduce this administrative overhead, Operations Manager has a server role called the gateway server. Gateway servers are located within the trust boundary of the agents and can participate in the mandatory mutual authentication. Because they lie within the same trust boundary as the agents, the Kerberos V5 protocol for Active Directory is used between the agents and the gateway server. Each agent then communicates only with the gateway servers that it is aware of. The gateway servers communicate with the management servers.

<http://technet.microsoft.com/en-us/library/hh212823.aspx>

<http://technet.microsoft.com/en-us/library/hh298610.aspx>

Question: 76

Your network contains an Active Directory domain named contoso.com. You plan to install System Center 2012 Virtual Machine Manager (VMM) on server named Server1. During the installation, you receive the error message shown in the exhibit. (Click the Exhibit button.)



You need to install VMM 2012 on Server1.

What should you instruct a domain administrator to do first?

- A. Create a service location (SRV) record named _tcp.server1.dkm.contoso.com and a host (A) record named DKM.
- B. Create a service connection point (SCP) object named DKM.TCP.contoso.com, and then modify the permissions of the SCP object.
- C. Create a container named DKM, and then modify the permissions of the container.
- D. Create a security group named DKM, and then modify the permissions of the group.

Answer: C

Explanation:

<http://blogs.technet.com/b/scvmm/archive/2012/06/18/kb-system-center-2012-virtual-machine-manager-setup-fails-to-create-child-objects-for-dkm.aspx> <http://www.aidanfinn.com/?p=11446>

Question: 77

You deploy a System Center 2012 Service Manager infrastructure. You plan to update the scheduled backups to include Service Manager information. You need identify which databases must be added to the scheduled backups. Which two databases should you identify? (Each correct answer presents part of the solution. Choose two.)

- A. DWDataMart
- B. DWStagingAndConfig
- C. DWRepository
- D. ServiceManager
- E. OMDWDataMart
- F. DWASDataBase

Answer: B, D

Explanation:

The ServiceManager database is sometimes referred to as the CMDB. It is the central store of all configuration items and work items managed by Service Manager. It also stores all the customizations and configuration for the Service Manager product itself. DWStagingAndConfig stores the configuration for the data warehouse and is used as a temporary place to stage the data as it moves from the ServiceManager database into the other parts of the data warehouse (DWRepository and DWDataMart)

<http://technet.microsoft.com/en-us/library/hh519598.aspx> <http://social.technet.microsoft.com/Forums/en-US/systemcenterservicemanager/thread/5cfda2d9-0bca-43b4-a57f-653d638e78e3/>

Question: 78

You plan to deploy System Center 2012 Virtual Machine Manager. The planned deployment must support the bare-metal deployment method. You need to identify the roles required for the planned deployment. What roles should you identify? (Each correct answer presents part of the solution. Choose two.)

- A. Windows Deployment Services and DHCP Server
- B. Windows Deployment Services and Network Policy and Access Services
- C. Active Directory Domain Services and Active Directory Lightweight Directory Services
- D. Active Directory Certificate Services and Active Directory Rights Management Services
- E. Active Directory Domain Services and Domain Name Services (DNS)

Answer: A, E

Explanation:

technet.microsoft.com/library/gg610634.aspx

<http://blogs.technet.com/b/cloudytom/archive/2012/01/02/scvmm-2012-bare-metal-deployment-checklist.aspx>

Question: 79

Your network contains an Active Directory domain named contoso.com. The domain contains a server named Server1 that runs Windows Server 2008 Service Pack 2 (SP 2). Server1 has System Center Virtual Machine Manager (VMM) 2008 R2 Service Pack 2 (SP2) installed. The VMM database is stored locally by using Microsoft SQL Server 2005 Express Edition. You need to upgrade Server1 to VMM 2012. The solution must minimize costs. What should you do before you upgrade Server1? (Each correct answer presents part of the solution. Choose two.)

- A. From Server1, run the uninstall program for VMM 2008 R2 and specify the remove data option.
- B. Upgrade Server1 to Windows Server 2008 R2 Service Pack 1 (SP1).
- C. Remove the computer account of Server1 from the domain.
- D. On Server1, install SQL Server 2008 Express.
- E. Move the VMM database to a server that has SQL Server 2008 R2 Enterprise Edition installed.

Answer: A, E

Explanation:

E (not D): SQL Server minimum requirement:

SQL Server 2008 R2 or SQL Server 2008

Incorrect:

Not D:

Windows server minimum requirement:

Windows Server 2008 R2

<http://technet.microsoft.com/en-us/library/hh430992>

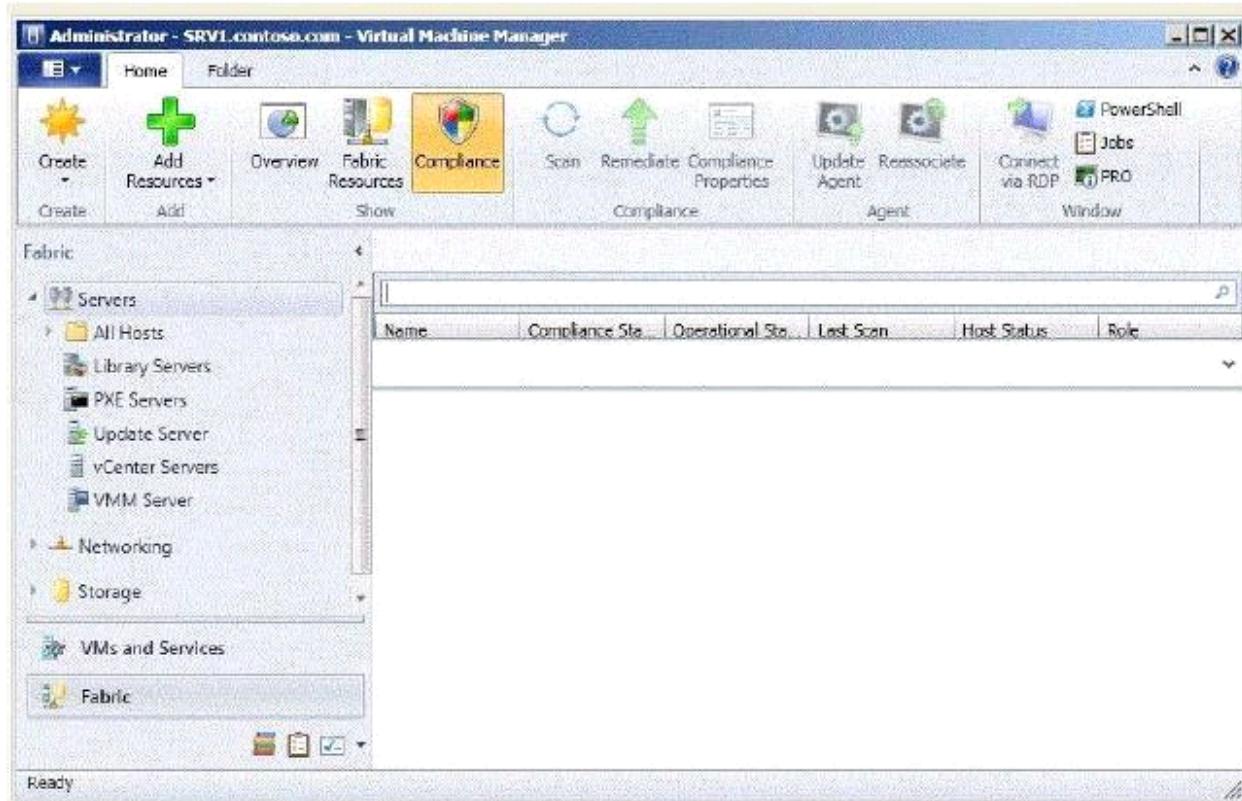
Question: 80

You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure that contains 20 Hyper-V hosts.

You configure VMM to use a Window Server Update Services (WSUS) server named WSUS1 as an update server.

You open the VMM Administrator Console as shown in the exhibit. (Click the Exhibit button.) You need to identify which hosts comply with the Sample Baseline for Security Updates.

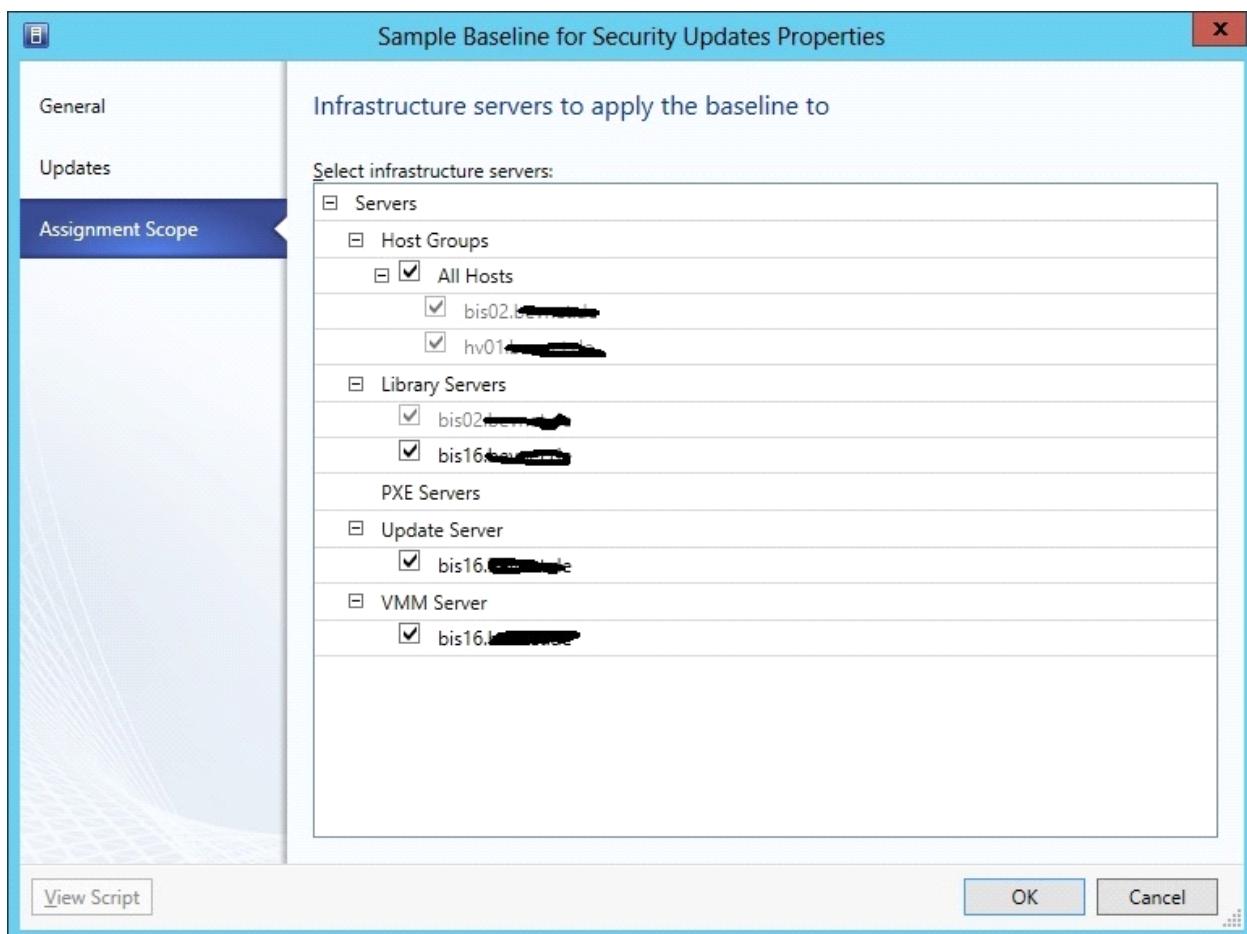
What should you do



- Modify the properties of the baseline.
- Modify the properties of the All hosts group.
- Select the All hosts group from the fabric navigation pane.
- Modify the properties of WSUS1.

Answer: A

Explanation:



Name	Agent Status
wsus1.lab.local	Responding

Question: 81

You have a System Center Service Manager 2010 Service Pack 1 (SP1) infrastructure that contains multiple servers. The infrastructure contains the following:

- Multiple class workflows

- Custom Microsoft SQL Server Reporting Services reports
- Custom views of the System Center Service Manager Console
- Custom webpages on the Service Manager IT Analyst Self-Service Portal

You plan to upgrade to Service Manager 2012.

You need to identify which task must be performed after the planned upgrade.

What should you identify?

- A. Recreate the custom workflows.
- B. Recreate the custom webpages.
- C. Recreate the custom reports.
- D. Recreate the custom views.

Answer: B

Explanation:

<http://technet.microsoft.com/en-us/library/hh524327>

Question: 82

You have a System Center 2012 Virtual Machine Manager (VMM) infrastructure. You need to prepare the infrastructure to deploy Hyper-V hosts to bare-metal servers.

What should you copy to the VMM library?

- A. an ISO that contains a generalized image of Windows Server 2008 R2
- B. a discover image and a capture image
- C. a VHD that contains a generalized image of Windows Server 2008 R2
- D. the Boot.wim file and the Install.wim file

Answer: C

Explanation:

<http://technet.microsoft.com/en-us/library/gg610658.aspx>

Question: 83

Your company has a private cloud managed by a System Center 2012 Virtual Machine Manager (VMM) infrastructure. You add a new SAN to the network, and then you run a storage discovery. You discover that the SAN resources are not discovered by VMM. You verify that the VMM server can communicate with the SAN. You need to ensure that VMM can discover the new SAN. What should you install?

- A. a third-party iSCSI initiator
- B. a Storage Management Initiative - Specification (SMI-S) provider.
- C. the Multipath I/O (MPIO) feature
- D. the Windows System Resource Manager (WSRM) feature.

Answer: B

Explanation:

<http://technet.microsoft.com/en-us/library/gg610600.aspx>

<http://technet.microsoft.com/en-us/library/gg610563.aspx>

Question: 84

Your network contains a server named Server1 that has System Center 2012 Virtual Machine Manager installed. You open the VMM Administrator Console as shown in the Administrator Console exhibit. (Click the Exhibit button.) A user named User1 is a member of Role2 and Role3. User1 must create Guest OS Profile in a VMM library. User1 opens the VMM Administrator Console as shown in User1 Console exhibit (Click the Exhibit button.) You need to ensure that User1 can create Guest OS Profile in a VMM library. What should you do?

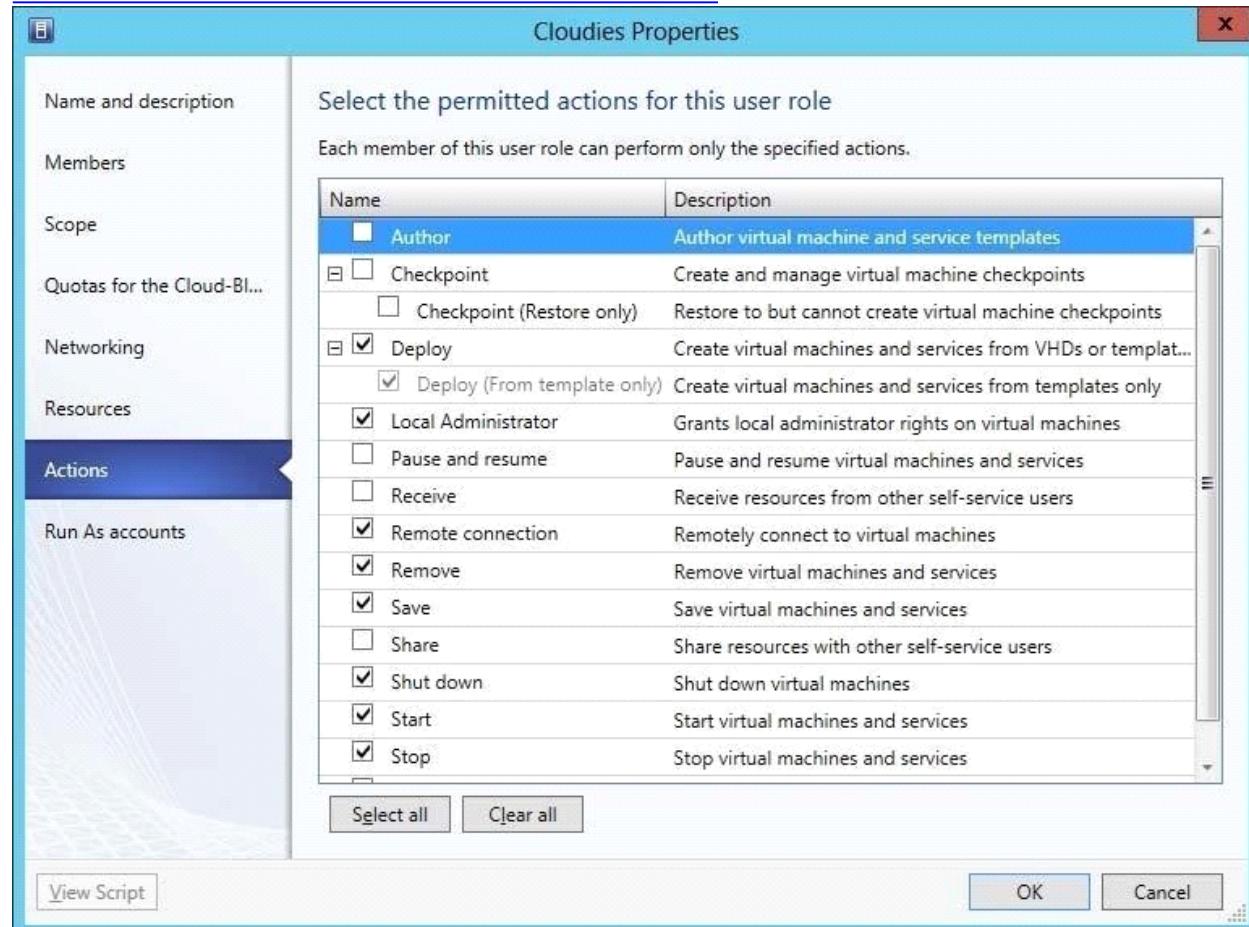
- A. Add User1 to the Administrator group Server1.
- B. Instruct User1 to use a Run as Account.
- C. Modify the Scope of Role3.
- D. Modify the Permitted actions of Role3.

Answer: D

Explanation:

In VMM, self-service users can create their own templates and profiles. The Author action for a self-service user role grants self-service users authoring rights. Users with authoring rights can create hardware profiles, guest operating system profiles, application profiles, SQL Server profiles, virtual machine templates, and service templates.

<http://technet.microsoft.com/en-us/library/gg610573.aspx>

**Question: 85**

You are the datacenter administrator for a company named Contoso Ltd. The network contains a server that has System Center 2012 Virtual Machine Manager (VMM) installed. You create two private clouds named Cloud1 and Cloud2.

Developers at Contoso have three Windows Azure subscriptions. Contoso creates a partnership with another company named Fabrikam, Inc. The Fabrikam network contains a server that has System Center 2012 Virtual Machine Manager (VMM) installed. The VMM server contains three clouds named Cloud3, Cloud4, and Cloud5.

Developers at Fabrikam have two Windows Azure subscriptions. You deploy System Center 2012 App Controller at Contoso. You plan to manage the clouds and the Windows Azure subscriptions for both companies from the App Controller portal. You need to identify the minimum number of subscriptions and the minimum number connections required for the planned management.

How many connections and subscriptions should you identify?

- A. two connections and two subscriptions
- B. two connections and five subscriptions
- C. five connections and five subscriptions
- D. five connections and two subscriptions

Answer: B

Question: 86

You plan to deploy a service named Service1. When you deploy Service1, you plan to deploy several SQL scripts to a virtual machine named VM1 by using an Application Profile. You need to ensure that a user named User1 is prompted for the name of the SQL instance during the deployment of Service1.

Which value should you add to the Application Profile

- A. \$SQLServerInstanceName\$
- B. #SQLServerInstanceName#
- C. @SQLServerInstanceName@
- D. %SQLServerInstanceName%

Answer: C

Explanation:

<https://blogs.technet.com/b/scvmm/archive/2011/09/27/vmm-2012-sql-server-profile.aspx?Redirected=true>

Question: 87

Your company has a private cloud managed by a System Center 2012 Virtual Machine Manager (VMM) infrastructure. You need to add a hardware load balancing solution to the private cloud. You deploy the hardware load balancer to the network.

What should you do before you add the hardware load balancer to the fabric? (Each correct answer presents part of the solution. Choose two.)

- A. Create a logical network.
- B. Create a VIP template.
- C. Create a Run As Account.
- D. Install a configuration provider.
- E. Install the Network Load Balancing (NLB) feature.
- F. Create a User Role.

Answer: B, D

Explanation:

- B: Before you can use a hardware load balancer or NLB, you must create associated virtual IP (VIP) templates.
D: To add supported hardware load balancers, you must install a configuration provider that is available from the load balancer manufacturer.
- <http://technet.microsoft.com/en-us/library/gg650470.aspx>
<http://technet.microsoft.com/en-us/library/gg610596.aspx>
<http://technet.microsoft.com/en-us/library/gg650470.aspx>

Question: 88

Your company has a private cloud that contains a System Center 2012 Service Manager instance. Service Manager has the Self-Service Portal installed. You create a service offering that contains a single request offering. The service offering provides logged-on users with the ability to add their user account automatically to a group named ServiceGroup1. The company's security policy requires that an administrator named Admin1 must approve all requests for group membership change. You need to configure the infrastructure to meet the requirements of the company's security policy.

What should you modify?

- A. the service offering
- B. the service request template
- C. the request offering
- D. the Service Offering Category list

Answer: B

Question: 89

Your company has a private cloud that is managed by using a System Center 2012 infrastructure. The network contains a Microsoft SharePoint Server 2010 server farm. The server farm is hosted on 20 virtual machines. You deploy a custom solution to the SharePoint server farm. The solution requires that a new Web.config file be deployed to all of the front-end servers. You need to identify which front-end servers have an outdated version of the Web.config file. What should you do?

- A. From Operations Manager, create a monitor.
- B. From Service Manager, create a Virtual Machine Manager (VMM) connector.
- C. From Virtual Machine Manager (VMM), deploy a service template.
- D. From Configuration Manager, deploy a Desired Configuration Management baseline.

Answer: D

Question: 90

Your company has a private cloud that contains a System Center 2012 Service Manager infrastructure. You need to create a service level objective (SLO) for incidents that have a priority value of 1. What should you create first?

- A. a service template

- B. a queue
- C. a channel
- D. a rule

Answer: B

Question: 91

Your company has a private cloud that is managed by using a System Center 2012 infrastructure. You discover that several users create incidents for the same issue by using the Self-Service Portal. Over 100 incidents are created. You need to ensure that all of the incidents can be resolved as quickly as possible. What should you do?

- A. create a service level objective (SLO).
- B. Create a queue.
- C. Select the Link to New Parent Incident task.
- D. Select the Escalate or Transfer the Incidents task.

Answer: C

Question: 92

Your company has a private cloud that is managed by using a System Center 2012 Operations Manager infrastructure. You have a line-of-business web application named App1. App1 stores its information in a dedicated Microsoft SQL Server 2008 database. You need to create a central diagram that contains the complete health information of App1. You import the SQL, IIS, and Windows Server management packs. What should you create next?

- A. a dashboard view
- B. a distributed application model
- C. a Service Level Dashboard
- D. a diagram view

Answer: C

Question: 93

Your company has a datacenter in Los Angeles that contains a private cloud. The private cloud is managed by using a System Center 2012 Operations Manager infrastructure. You plan to create a distributed application named App1. You need to ensure that a folder for App1 is available from the Monitoring workspace in the Operations Manager console. What should you do?

- A. Run the Protect-SCOMManagementPack cmdlet.
- B. Save App1 in the Default Management Pack.
- C. Run the Import-SCOMManagementPack cmdlet.
- D. Save App1 as a new management pack.

Answer: D

Question: 94

Your company has a private cloud that is managed by using a System Center 2012 infrastructure. An administrator installs a new tape drive on a server that has Data Protection Manager (DPM) installed. You discover that the tape drive is unavailable from the DPM Administrator console. You verify that the tape drive is installed correctly on the DPM server. You need to ensure that the tape drive is available from the DPM Administrator console. What should you do from the DPM Administrator console?

- A. From the Agents view, click Install.
- B. From the Disks tab, click Add.
- C. From the Protection view, click Tape.
- D. From the Libraries view, click Rescan.

Answer: D

Question: 95

Your company has a private cloud that is managed by using a System Center 2012 infrastructure. The infrastructure contains multiple servers that have Data Protection Manager (DPM) installed. A DPM server named Server1 is running out of hard disk space. You add additional physical hard disks to Server1. You verify that the additional disks are available from the local Disk Management console. You need to ensure that the additional disk space can be used to store DPM backups. What should you do?

- A. From the DPM Administrator console, click Refresh.
- B. From the DPM Administrator console, click Disk Allocation.
- C. From the DPM Administrator console, click Add.
- D. From the DPM Administrator console, click Rescan.

Answer: C

Question: 96

Your company has a private cloud that is managed by using a System Center 2012 infrastructure. You have a web application named WebApp1 that is hosted in another datacenter. The datacenter is not part of the private cloud. You need to ensure that Service Manager incidents are generated automatically when WebApp1 is unavailable. What should you create?

- A. a Service Level Tracking object
- B. an event rule
- C. a synthetic transaction
- D. a service offering

Answer: C

Question: 97

Your company has a private cloud that is managed by using a System Center 2012 infrastructure. The network contains 50 virtual machines that run Windows 7. Each virtual machine has an application named App1.exe installed. A new version of App1.exe is released. You need to identify which virtual machines have the outdated version of App1.exe installed. What should you do?

- A. From Operations Manager, create a monitor.
- B. From Configuration Manager, deploy a Desired Configuration Management baseline.
- C. From Service Manager, create a Virtual Machine Manager (VMM) connector.
- D. From Virtual Machine Manager (VMM), deploy a service template.

Answer: B

Question: 98

Your company has a private cloud that is managed by using a System Center 2012 infrastructure. You have a web application named App1 that is hosted in another datacenter. The datacenter is not part of the private cloud. You need to ensure that Service Manager incidents are generated automatically when App1 is unavailable. What should you create?

- A. a Service Level Tracking object
- B. an event subscription
- C. a channel
- D. a synthetic transaction

Answer: D

Question: 99

A company has a server that has System Center 2012 R2 Virtual Machine Manager (VMM) installed. A specific user must be able to create logical networks in VMM. You need to grant the user the required permissions. What should you do?

- A. in VMM, grant the user the Administrator role.
- B. in VMM, create a self-service role that has the Deploy action assigned.
- C. in Server Manager, add the user to the local Administrators group.
- D. In VMM, grant the user the Tenant Administrator role.

Answer: A

Explanation:

<http://technet.microsoft.com/en-us/library/gg610588.aspx>

Account requirements To complete this procedure, you must be a member of the Administrator or the Delegated Administrator user role. Delegated administrators can only associate a logical network to host groups that are included in their administrative scope.

Question: 100

You administer an environment that contains a Windows Server 2012 R2 server that has the Hyper-V role installed and a server that has System Center 2012 R2 Virtual Machine Manager (VMM). You plan to deploy two virtual machines (VMs).

You have the following requirements:

- You must minimize the likelihood that the VMs will be offline at the same time.
 - You must minimize the likelihood that the VMs will reside on the same Hyper-V host server in the Hyper-V cluster.
- You need to configure the two VMs. What should you do?

- A. Configure the two VMs to include a value for the preferred owners setting.
- B. Configure only one VM as highly available.
- C. Configure the VMs to reside on different storage area networks (SANs).
- D. Configure the VMs to use a custom property that contains the same value.

Then, configure the VMs as members of the same availability set.

Answer: B

Question: 101

You are the virtualization administrator for an organization. The organization uses all components of System Center 2012 R2 in the production environment. A power supply in a Hyper-v host server fails. The host server continues to run and host virtual machines in this degraded state.

You have the following requirements:

- Move virtual machines from host servers that are running in a degraded state to another host server.
- Prevent placement of new virtual machines on degraded host servers.

You need to configure the environment.

Which System Center feature should you implement?

- A. Dynamic Optimization
- B. Performance and Resource Optimization (PRO)
- C. Shared VHDX files
- D. Placement Rules

Answer: B

Explanation:

<http://technet.microsoft.com/en-us/gg552992.aspx>

What is Performance and Resource Optimization (PRO)?

PRO helps ensure that virtual machine hosts and virtual machines are operating in the most efficient possible manner.

PRO generates recommendations for remedial actions based on alerts that Operations Manager generates.

You can configure PRO to implement the preconfigured corrective actions automatically.

Question: 102

An organization has private and public cloud resources. The organization has Windows Server 2012 R2 servers that have the Hyper-V role installed. You have one four-node cluster of Hyper-V host servers.

You use System Center 2012 R2.

The virtual machines that run on the cluster must remain online when you install updates on the Hyper-V host servers.

You need to install updates on the Hyper-V host servers.

What should you do?

- A. Configure Windows Server Update Services (WSUS) to provide updates to the virtual machines hosted on the cluster.
- B. Add all the servers to a collection in System Center 2012 R2 Configuration Manager.
Deploy updates to the collection.
- C. Create orchestrated updates of Hyper-V host clusters by using System Center 2012 R2 Virtual Machine Manager (VMM).

D. Configure Windows Update on the Hyper-V host servers to download updates from Microsoft Update.

Answer: C

Explanation:

<http://technet.microsoft.com/en-us/library/gg675084.aspx>

<http://technet.microsoft.com/en-us/library/gg675088.aspx>

VMM rolls through the host cluster, remediating one cluster node at a time. If a cluster node is compliant, VMM bypasses that node.

Question: 103

A company has Active Directory Domain Services (AD DS) domain controllers that run on Windows Server 2012 R2 servers. There are two forests, and each has a single domain. There is a two-way forest trust between the forests. The company uses Hyper-V for server visualization. The Hyper-V environment contains the Hyper-V host servers as shown in the following table:

Number of Hyper-V hosts	Domain or Workgroup	Network location
4	Contoso.com	Internal network
2	Fabrikam.com	Internal network
2	Ext.contoso.com	Perimeter network

You prepare to deploy System Center 2012 R2 Data Protection Manager (DPM) to back up the Hyper-V environment. The deployment must meet the following requirements:

- Ensure that all Hyper-V servers can be backed up from a minimum of two DPM servers
- Minimize the total number of DPM servers

You need to deploy DPM to the environment.

What should you deploy?

- A. four DPM servers in the internal network and two DPM servers in the perimeter network
- B. two DPM servers in the internal network and one DPM server in the perimeter network
- C. two DPM servers in the internal network only
- D. two DPM servers in the internal network and two DPM servers in the perimeter network

Answer: C

Explanation:

DPM can protect servers and workstations across domains within a forest that has a two-way trust relationship with the domain that the DPM server is located in. If there is not a two-way trust across domains, you can protect the computers using DPM's support for computers in workgroups or untrusted domains.

For more information, see Managing Protected Computers in Workgroups and Untrusted Domains. DPM supports data protection across forests as long as you establish a forest-level, two-way trust between the separate forests.

<http://technet.microsoft.com/en-us/library/hh758176.aspx>

Question: 104

You are the virtualization administrator for an organization that manages private and public cloud-based resources. The organization uses Windows Server 2012 R2 servers that have the Hyper-V role installed. All Hyper-V host servers are configured as nodes in a four-node cluster. The organization also uses System Center 2012 R2 Configuration Manager. Operating system updates to each host server require a system reboot. You need to ensure that the virtual machines remain online during any reboots required by the updates.

What should you do?

- A. In System Center 2012 R2 Configuration Manager, add all of the servers to a collection. Deploy updates to the collection.
- B. Apply updates by using the Virtual Machine Servicing Tool (VMST).
- C. Implement cluster-aware updating with the Cluster-Aware Updating (CAU) wizard.
- D. Configure orchestrated updates of Hyper-V host clusters in System Center 2012 R2 Virtual Machine Manager (VMM).

Answer: C

Explanation:

CAU is a tool that coordinates software updates on a cluster node, and Configuration Manager also performs server software updates. It is important to configure these tools so that they do not have overlapping coverage of the same servers in any data-center deployment. This ensures that the objective behind using CAU is not inadvertently defeated, because Configuration Manager-driven updating does not incorporate cluster awareness.

CAU and Configuration Manager can work together to deliver synergistic value. By using the public plug-in interface architecture in CAU, Configuration Manager can leverage the cluster awareness of CAU. This allows a customer who already has Configuration Manager deployed to use the cluster awareness capabilities of CAU while taking advantage of the Configuration Manager infrastructure, such as distribution points, approvals, and the Configuration console.

<http://technet.microsoft.com/en-us/library/hh831367.aspx>

Question: 105

A company uses System Center 2012 R2 Operations Manager and System Center 2012 R2 Virtual Machine Manager (VMM). You need to provide a detailed overview of the fabric that services the company's private clouds.

What should you do?

- A. Import the Management Pack for System Center 2012 R2 VMM Fabric Dashboard.
- B. Use the System Center Global Service Monitor as part of the monitoring strategy.
- C. Import the Management Pack for System Center 2012 Service Manager.
- D. Use the Windows Intune service as part of the monitoring strategy.

Answer: A

Question: 106

A company has an environment that runs System Center 2012 R2 Operations Manager and System Center 2012 R2 Virtual Machine Manager (VMM). The company also has web applications that are used by employees.

You must plan a management strategy for the company. You need to ensure that you can monitor the web applications from outside the company network.

Which tool should you use as part of the monitoring strategy?

- A. System Center Global Service Monitor
- B. Microsoft Monitoring Agent
- C. System Center Fabric Health Dashboard
- D. Windows Intune

Answer: A

Explanation:

<http://www.microsoft.com/en-us/server-cloud/system-center/global-servicemonitor.aspx>

Question: 107

You have three Windows Server 2012 R2 servers that are set up as a Hyper-V cluster. You use System Center 2012 R2 Virtual Machine Manager to manage the Hyper-V environment. Users report that when a Hyper-V host server becomes overloaded, the performance of the virtual machines is unacceptable.

You need to analyze workloads and automatically migrate virtual machines from overloaded host servers to host clusters that have available capacity.

What should you configure?

- A. Performance and Resource Optimization (PRO)
- B. Placement Rules
- C. shared .vhdx file
- D. Dynamic Optimization

Answer: D

Explanation:

<http://technet.microsoft.com/en-us/library/gg675109.aspx>

Question: 108

A company uses System Center 2012 R2 Virtual Machine Manager (VMM).

You have the following requirements: Self-service users must be able to store and share their resources.

Self-service users must be able to use the resources to create profiles and templates in VMM.

You need to configure VMM to support self-service users.

Which three actions should you perform?

Each correct response presents part of the solution.

- A. In the VMM library share, create a user data path.
- B. Grant the Read permission and the Write permission to all role members.
- C. In the Public Documents share, create a user data path.
- D. Assign the Deploy action to the role members.
- E. Grant the Read & execute permission to all role members.
- F. Assign the Author action to the role members.

Answer: A, B, F

Explanation:

A (not C): VMM for System Center 2012 allows self-service users to use the VMM console, and to see their logical and physical resources in the Library workspace.

* Self-service user data paths Configure user data paths on self-service user roles to provide a place where members of a self-service user role can upload and share their own resources. The user data path also is the best place for administrators to store resources that only members of a self-service user role need to use.

B: (not E) Access control permissions determine whether the users have Read/Write or Read/only access.

F (not D):

Author Grants members permission to author templates and profiles. Users with authoring rights can create hardware profiles, operating system profiles, application profiles, SQL Server profiles, virtual machine templates and service

templates.

Deploy Grants members permission to deploy virtual machines and services from templates and virtual hard disks that are assigned to their user role. However, they do not have the right to author templates and profiles.

Question: 109

A company has a Hyper-V failover cluster that consists of sixteen host servers that run Windows Server 2012 R2. The company uses System Center 2012 R2 Virtual Machine Manager (VMM) to manage the Hyper-V environment. Eight of the host servers are used only for engineering-related services. The other eight host servers are used for general corporate use. You need to ensure that the corporate virtual machines (VMs) are never moved to the host servers that are used for engineering. What should you do?

- A. Create a new VMM availability set for the corporate VMs.
- B. Create a custom property for the corporate VMs and host servers. Then, use a custom placement rule for the host group. Specify that the rule must match.
- C. In the corporate VMs, set the value of the Preferred Owners setting to the names of the corporate host servers.
- D. Create a new VMM availability set for the corporate host servers.

Answer: B

Explanation:

<http://blogs.technet.com/b/scvmm/archive/2013/03/11/customplacement-rules-and-availability-sets-in-scvmm-2012-sp1.aspx>

Question: 110

You use System Center 2012 R2 Operations Manager to monitor the datacenter infrastructure and applications for an organization. You import the SQL Server Management Pack. You are unable to monitor long-running SQL Server Agent jobs. You observe that the SQL Server Agent Jobs View displays zero instances. Other SQL Server-related monitoring operations function as expected. You need to monitor long-running SQL Server Agent jobs. What should you do?

- A. Enable the Job Duration unit monitor.
- B. Enable agent proxy for SQL Servers.
- C. Enable the object discovery for the SQL Server Agent Job class.
- D. End maintenance mode for the SQL Server 2012 Computers group.

Answer: C

Explanation:

<http://blogs.technet.com/b/kevinholman/archive/2011/08/05/how-to-monitor-sql-agent-jobsusing-the-sqlmanagement-pack-and-opsmgr.aspx>
<http://www.toolzz.com/?p=162>

Question: 111

An organization has a private cloud infrastructure. The organization uses Windows Server 2012 R2 servers that have the Hyper-V role installed. The organization uses all components of System Center 2012 R2. You use Virtual Machine Manager to configure four clouds and self-service groups. In addition, you configure price sheets for chargeback reporting in Service Manager. You must implement chargeback for private cloud customers. You need to ensure that chargeback reports in Service Manager will return data. Which three actions should you perform? Each correct answer presents part of the solution.

- A. In Service Manager, configure the Virtual Machine Manager Connector
- B. Configure integration between Virtual Machine Manager and Operations Manager.
- C. Import a list of Hyper-V host servers into Service Manager by using the Import Instances from the CSV File tool.
- D. In Service Manager, configure the Operations Manager configuration item connector.
- E. In Service Manager, configure the Configuration Manager Connector.
- F. In Service Manager, configure the Orchestrator connector.

Answer: A, B, D

Explanation:

<http://blogs.technet.com/b/privatecloud/archive/2013/02/19/chargeback-with-system-center-2012-tutorial.aspx>

sp1-

Question: 112

An organization has private and public cloud resources. The organization has Windows Server 2012 R2 servers that have the Hyper-V role installed. You have one four-node cluster of Hyper-V host servers.

You use System Center 2012 R2.

The virtual machines that run on the cluster must remain online when you install updates on the Hyper-V host servers.

You need to install updates on the Hyper-V host servers.

What should you do?

- A. Configure Windows Server Update Services (WSUS) to provide updates to the Hyper-V host servers in the cluster.
- B. Add all the virtual machines hosted on the cluster to a collection in System Center 2012 R2 Configuration Manager. Deploy updates to the collection.
- C. Use the Cluster-Aware Updating (CAU) wizard.
- D. Configure Windows Update on the Hyper-V host servers to download updates from Microsoft Update.

Answer: C

Explanation:

<http://technet.microsoft.com/en-us/library/gg675088.aspx>

Question: 113

You have a Windows Server 2012 R2 Hyper-V environment that includes System Center 2012 R2 Virtual Machine Manager (VMM). The environment includes five physical servers.

The servers are configured as follows:

Server Name	Operating System	Memory	Disk Volumes
NYC-FS	Windows Server 2012 Datacenter	2048 MB	3 TB
NYC-DEV	Windows Server 2008 R2 Enterprise	1024 MB	1 TB
NYC-EX	Windows Server 2008 Standard 32-bit	4096 MB	4 TB
NYC-PR	Windows Server 2003 Enterprise x64 Service Pack 2	512 MB	500 GB
NYC-WEB	Windows Server 2003 Web Edition	768 MB	200 GB

You plan to use VMM to migrate physical machines to virtual machines. You must migrate all servers that support physical to virtual (P2V) migration.

You need to migrate the servers.

Which three servers should you migrate? Each correct answer presents part of the solution.

- A. NYC-WEB
- B. NYC-PR
- C. NYC-DEV
- D. NYC-FS
- E. NYC-EX

Answer: A, B, C

Explanation:

The source computer cannot have any volumes larger than 2040 GB.

This disqualifies NYCFS(not D) and NYC-EX (not E).

Note:

* Requirements on the Source Machine To perform a P2V conversion, your source computer:
 /Must have at least 512 MB of RAM. / Cannot have any volumes larger than 2040 GB. / Must have an Advanced Configuration and Power Interface (ACPI) BIOS Vista WinPE will not install on a non-ACPI BIOS.
 / Must be accessible by VMM and by the host computer. / Cannot be in a perimeter network. A perimeter network, which is also known as a screened subnet, is a collection of devices and subnets placed between an intranet and the Internet to help protect the intranet from unauthorized Internet users. The source computer for a P2V conversion can be in any other network topology in which the VMM server can connect to the source machine to temporarily install an agent and can make Windows Management Instrumentation (WMI) calls to the source computer.

Question: 114

A company uses Windows Server 2012 R2 servers that have the Hyper-V role installed. The company uses a single System Center 2012 R2 Data Protection Manager (DPM) server to back up and recover the Hyper-V environment.

You deploy a new standalone Hyper-V host server, and then deploy 20 new virtual machines (VMs) to the host server. You create a DPM protection group named ProtectionGroup3. You need to automate the process of adding the 20 new VMs to ProtectionGroup3.

What should you run?

- A. the Windows PowerShell cmdlet Register-SCVMMManagedComputer
- B. the Windows PowerShell cmdlet Update-SCVMMManagedComputer
- C. the Windows PowerShell script AddNewStandAloneVM.ps1, and specify the Hyper-V server and ProtectionGroup3 as parameters
- D. the Windows PowerShell script AddNewStandAloneVMToDRServer.ps1, and specify the Hyper-V server and ProtectionGroup3 as parameters

Answer: C

Explanation:

<http://technet.microsoft.com/en-us/library/jj721498.aspx>

Question: 115

You are the virtualization administrator for an organization that manages private and public cloud resources.

The organization has a Windows Azure subscription.

You plan to move virtual machines to Windows Azure Infrastructure as a Service (IaaS) by using System Center 2012 R2 App Controller.

You need to create a virtual machine template that allows virtual machines to be moved from Hyper-V to Windows Azure.

What should you do?

A. Create a new virtual machine that uses a .vhdx file.

Run the Sysprep tool on the virtual machine.

B. Create a new Generation 2 virtual machine that uses a .vhdx file that is attached to a SCSI controller.

Run the Sysprep tool on the virtual machine.

C. Create a new virtual machine that uses a .vhdx file.

Run the Sysprep tool on the virtual machine.

D. Create a virtual machine by using a differencing disk.

Use the Clone a virtual machine option to create new virtual machines.

Answer: A

Explanation:

<http://blogs.msdn.com/b/how24/archive/2012/11/06/windows-azure-iaas-upload-a-custombuild- vmtemplate.aspx>

<http://blogs.technet.com/b/kevinremde/archive/2013/05/29/migrating-vms-from-hyper-v- towindows-azure-20-key-scenarios-with-windows-azure-infrastructure-services.aspx> Note: Azure v1.7 and below does not support VHDX files

<http://www.windowsazure.com/en-us/documentation/articles/virtual-machines-createupload- vhd-windows-server/>

Question: 116

You administer two Windows Server 2012 R2 servers that have the Hyper-V role installed. You use System Center 2012 Virtual Machine Manager (VMM) to manage the Hyper-V host servers.

You need to create a server lab environment.

The lab servers have the following requirements:

- All of the lab servers must be virtualized. All of the lab servers must be on an isolated network.

- All of the lab servers must be able to communicate with each other.

You need to configure networking for the lab environment.

What should you do?

A. Create a logical switch.

B. Create a media access control (MAC) pool.

C. Add a load balancer.

D. Create a private virtual LAN (PVLAN) logical network.

Answer: D

Explanation:

<http://blogs.technet.com/b/scvmm/archive/2013/06/04/logical-networks-part-iv-pvlan-isolation.aspx>

Question: 117

An organization uses System Center 2012 R2 Data Protection Manager (DPM). Backups of virtual machines that are hosted on local volumes complete successfully. Backups of virtual machines that are hosted on storage area network (SAN) volumes fail. You receive the following error message in the Windows Event Log:

Backup failed with the following error An error occurred:

Writer 'Microsoft Hyper-V VSS Writer' reported an error:

'VSS_WS_FAILED_AT_FREEZE'.

Check the application component to verify it is in a valid state for the operation. You need to ensure that all backups can complete successfully.

What should you do?

- A. On the Cluster Shared Volume (CSV), grant administrator rights to the DPM server computer account.
- B. On all Windows servers in the environment, enable the Volume Shadow Copy Service (VSS).
- C. Install and configure the Volume Shadow Copy Service (VSS) hardware provider from the SAN vendor.
- D. On virtual machine files hosted on the Cluster Shared Volume (CSV), grant

Answer: C

Explanation:

<http://technet.microsoft.com/en-us/library/hh758184.aspx>

Question: 118

Contoso, Ltd. has a Windows Server 2012 R2 server with the Hyper-V role installed. Contoso has a virtual machine named CVM1. The company uses System Center 2012 R2 Virtual Machine Manager (VMM) to manage the environment.

Contoso acquires Fabrikam, Inc. Fabrikam has a Windows Server 2012 R2 server with the Hyper-v role installed. CVM1 must be able to communicate with a virtual machine named FVM2 on a non-routable subnet in the Fabrikam Hyper-V environment

You need to ensure that CVM1 can communicate with FVM2.

Which technology should you implement?

- A. Remote Desktop (RD) Gateway
- B. Windows Network Load Balancing (WNLB)
- C. Windows Server Gateway
- D. Reverse Proxy Server

Answer: C

Explanation:

<http://technet.microsoft.com/en-us/library/dn313101.aspx>

Question: 119

You administer an environment that uses a Windows Server 2012 R2 Hyper-V cluster and System Center 2012 R2 Virtual Machine Manager (VMM).

You plan to deploy two virtual machines (VMs) that host a line-of-business (LOB) application. The VMs must reside on the same Hyper-V host server at all times. The LOB application does NOT require high availability.

You need to deploy the VMs.
What should you do?

A. Add a custom property to both VMs, and assign the same value to each property.

Configure the Hyper-V host cluster to use the same custom property and value.

Configure a custom placement rule that uses filters that are based on the custom property and value.

B. Configure the VMs to use the same VM network.

C. Configure the VMs to reside on the same storage area networks (SANs).

D. Add a custom property to both VMs, and assign the same value to each property.

Configure the VMs as members of the same availability set.

Answer: A

Explanation:

<http://blogs.technet.com/b/scvmm/archive/2013/03/11/custom-placement-rules-andavailability-sets-in-scvmm-2012-sp1.aspx>

Question: 120

You manage a virtualization environment that contains Windows Server 2012 R2 servers that have the Hyper-V role installed.

You manage the host servers by using Virtual Machine Manager (VMM) in System Center 2012 R2.

You must monitor the virtualization environment, including all virtual machines and service instances.

You need to configure monitoring.

Which three actions should you perform? Each correct answer presents part of the solution.

A. Import the VMM Management Pack and then deploy agents to the Hyper-V host servers and the VMM server. On the Hyper-V host server, enable agent proxy for the Operations Manager agent.

B. In the VMM console, add the name of an Operations Manager server to the management group that will be used to monitor the virtualization infrastructure.

C. On the VMM server, install the Operations Manager console.

D. On the Operations Manager management server, enable Windows Remote Management (WinRM).

E. Import the VMM Management Pack and then deploy agents to Hyper-V host servers and the VMM Server. On the VMM server, enable agent proxy for the Operations Manager agent.

F. Configure the VMM server and the Active Directory computer accounts of the Hyper-V host servers to allow constrained delegation.

Answer: B, C, E

Question: 121

A company has a Windows Server 2012 R2 server that has the Hyper-V role installed. The server hosts 12 virtual machines (VMs) that run Windows Server 2012 R2. The company plans to deploy System Center 2012 R2 Data Protection Manager (DPM). The company has identified the following requirements for the DPM deployment:

- Allow files and folders on VMs to be recovered allow recovery of data to a network

- Share minimize the number of DPM protection agents that you must deploy

You need to implement the backup solution.

Which two actions should you perform? Each correct answer presents part of the solution.

A. Deploy a DPM server.

- B. Deploy the DPM protection agent to VMs.
- C. Add the Hyper-V role to the DPM server.
- D. Configure DPM to perform guest-level backups of the VMs.
- E. Configure DPM to perform host-level backups of the VMs.

Answer: A, C

Explanation:

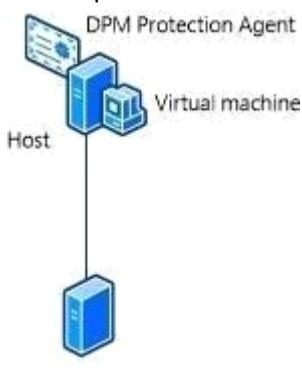
* DPM protection supports the following scenarios:

/ (this scenario) Protects virtual machines that are hosted on stand-alone servers that run Hyper-V and that use local or directly attached storage.

/ Protects virtual machines that run on a cluster. The cluster uses Cluster Shared Volumes (CSV) storage. /Protects virtual machines that run on a stand-alone server or cluster and that use SMB 3.0 file server storage.

/Protects virtual machines that are running during a live migration.

* Example: Protection for virtual machines on a stand-alone server that is running Hyper-V



Hyper-V on Standalone This configuration protects one or more virtual machines on a stand-alone host computer. Storage can be local on the host server, or directly attached to it, for example a hard drive, a storage area network (SAN) device, or a network attached storage (NAS) device. Alternatively, the host server might use SMB 3.0 storage on an alternate file server. The DPM protection agent must be installed on all hosts and on the file server if storage is hosted by using SMB 3.0.

Incorrect: Not B: Would not minimize the number of Protection Agents.

Question: 122

DRAG DROP

You have a System Center 2012 infrastructure that contains Service Manager, Virtual Machine Manager (VMM), and Orchestrator.

You configure the Service Manager connector for VMM and Orchestrator.

You need to enable self-service provisioning of virtual machines. The solution must use an approval process based on a workflow.

What order should you perform the listed actions? (To answer, move all the actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer Area
Build an Orchestrator runbook.	
Register and deploy the Integration Pack for System Center Service Manager and the Integration Pack for System Center Virtual Machine Manager.	
Configure the Service Manager connection settings and the Virtual Machine Manager connection settings.	
Create a request offering.	
Create a service request template.	

Answer:

Actions	Answer Area
	Register and deploy the Integration Pack for System Center Service Manager and the Integration Pack for System Center Virtual Machine Manager.
	Configure the Service Manager connection settings and the Virtual Machine Manager connection settings.
	Build an Orchestrator runbook.
	Create a service request template.
	Create a request offering.

Question: 123

DRAG DROP

You have a private cloud that is managed by System Center 2012. Your network contains two servers. The servers are configured as shown in the following table:

Server name	Server configurarition
VMM1	1 GB of RAM x64 architecture Windows Server 2008 Service Pack 2 (SP2) System Center Virtual Machine Manager (VMM) 2008 R2 Service Pack 1 (SP1)
SQL1	1 GB of RAM x64 architecture Windows Server 2008 Service Pack 2 (SP2) Microsoft SQL Server 2008 Express

Server1 stores its VMM databases on Server2.

You need to upgrade Server1 to VMM 2012.

What should you install before you upgrade VMM1? To answer, drag the appropriate component or components to the correct location or locations in the answer area. (Each component may be used once, more than once, or Server name Server role not at all.)

Components

- More memory
- SQL Server 2008 RTM Enterprise
- SQL Server 2008 R2 Standard
- Windows Automated Installation Kit (Windows AIK) 2.0
- Virtual Machine Manager Self-Service Portal (VMMSSP) 2.0
- Windows Server 2008 R2

Answer Area

 VMM1	Actions <ul style="list-style-type: none"> <li data-bbox="890 1147 1208 1236">Component <li data-bbox="890 1236 1208 1326">Component <li data-bbox="890 1326 1208 1416">Component
 SQL1	<ul style="list-style-type: none"> <li data-bbox="890 1535 1208 1625">Component

Answer:

Components

SQL Server 2008 RTM Enterprise
Virtual Machine Manager Self-Service Portal (VMMSSP) 2.0

Answer Area

VMM1



Actions

More memory

Windows Automated Installation Kit (Windows AIK) 2.0

Windows Server 2008 R2

SQL1



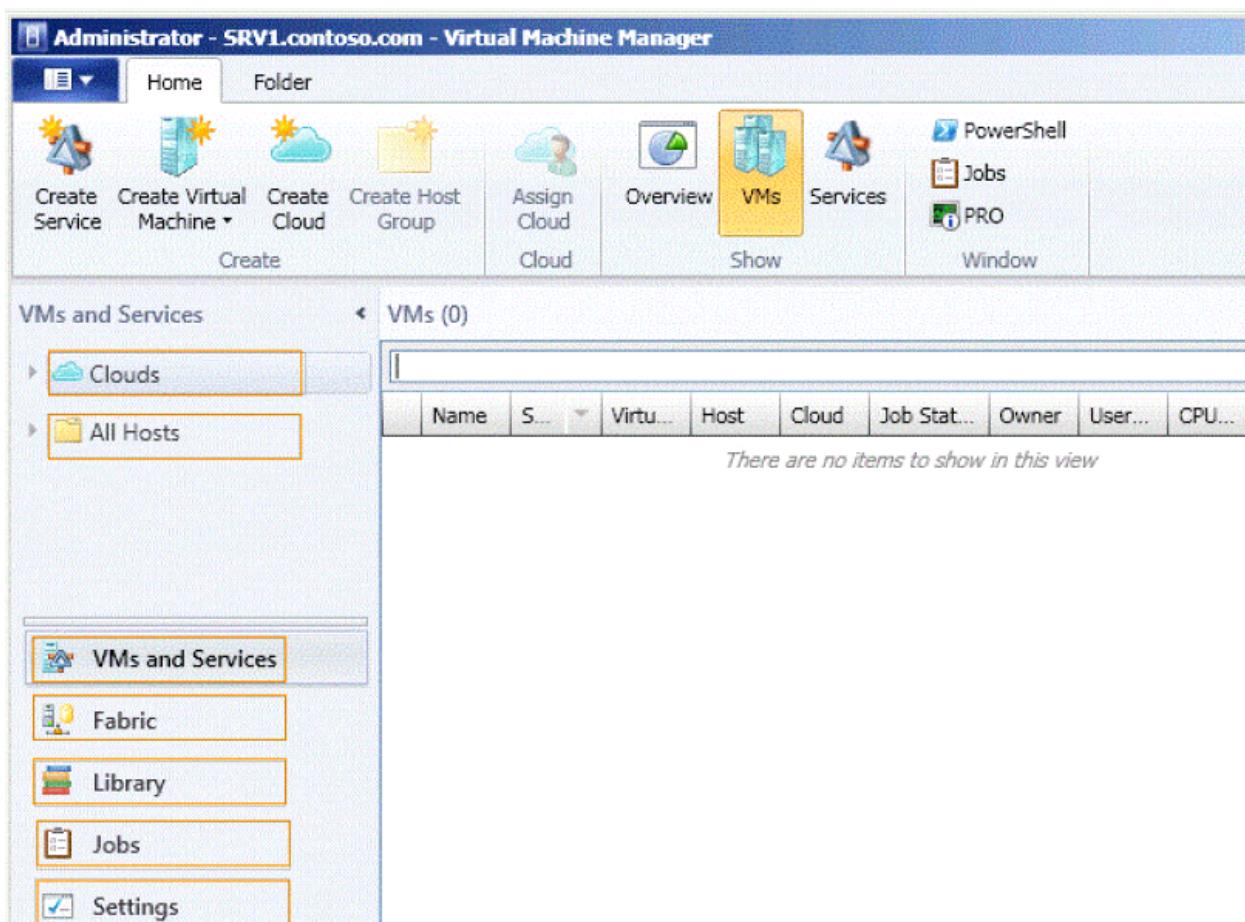
SQL Server 2008 R2 Standard

Question: 124**HOTSPOT**

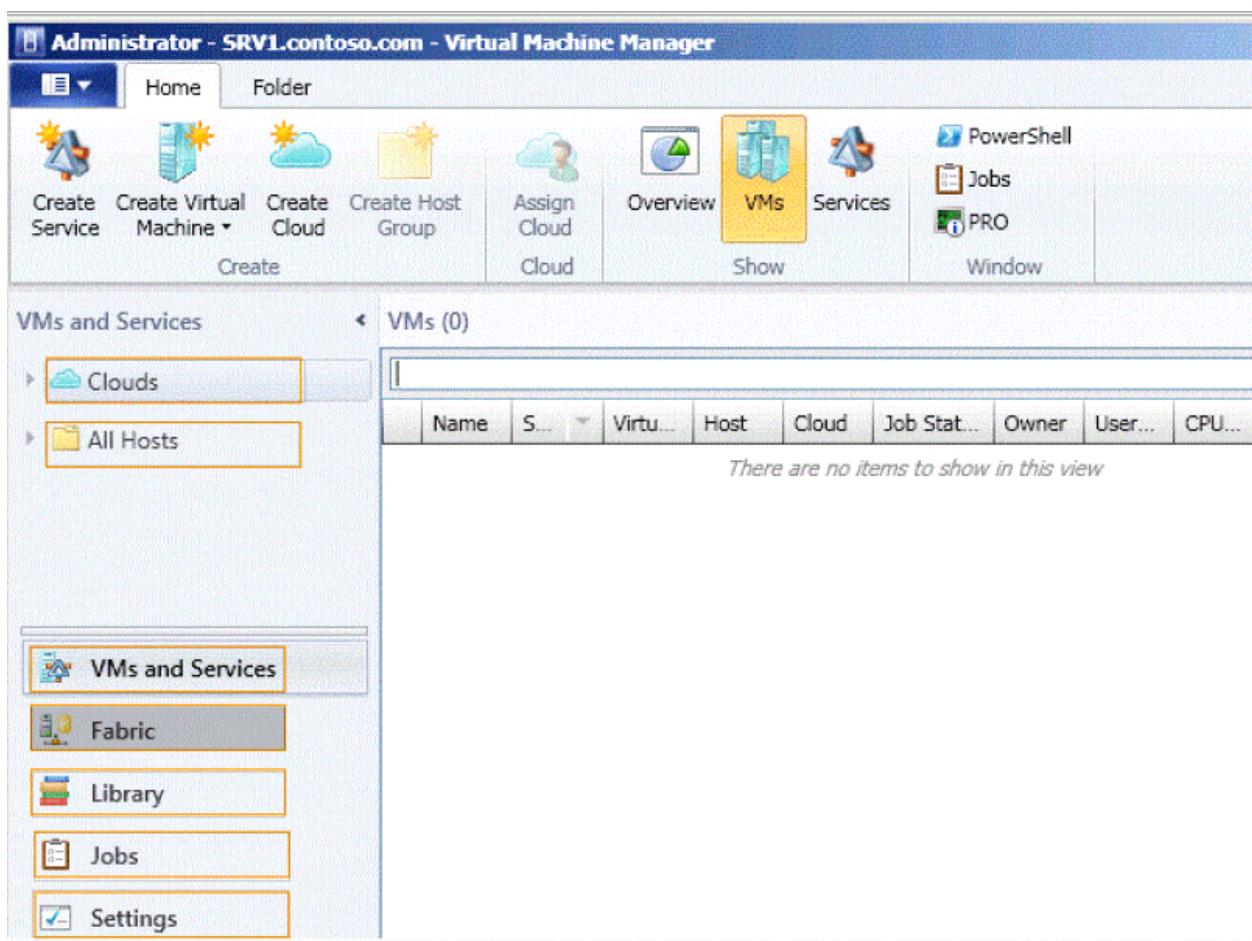
Your network contains a server named Server1 that has System Center 2012 Virtual Machine Manager (VMM) installed.

You need to add a Windows Server Update Services (WSUS) server to the VMM infrastructure.

What should you configure from the VMM Administrator Console? To answer, select the appropriate option in the answer area.



Answer:



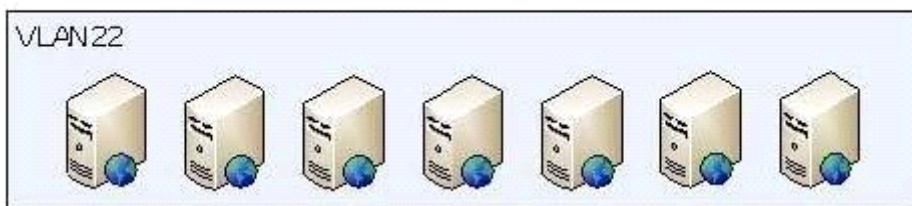
Question: 125

HOTSPOT

A company has a single Active Directory Domain Services (AD DS) domain and Windows Server 2012 R2 servers that have the Hyper-V role installed. The company uses System Center 2012 R2 Virtual Machine Manager (VMM) to manage the Hyper-V environment. Users access company resources from the Internet.

There is an existing front-end web server farm that contains virtual machines (VMs), as shown in the Front-end Web Server Farm exhibit. (Click the Exhibit button.) You use the VMs to deliver a website to the Internet.

Front-end Web Server Farm | **Windows PowerShell**

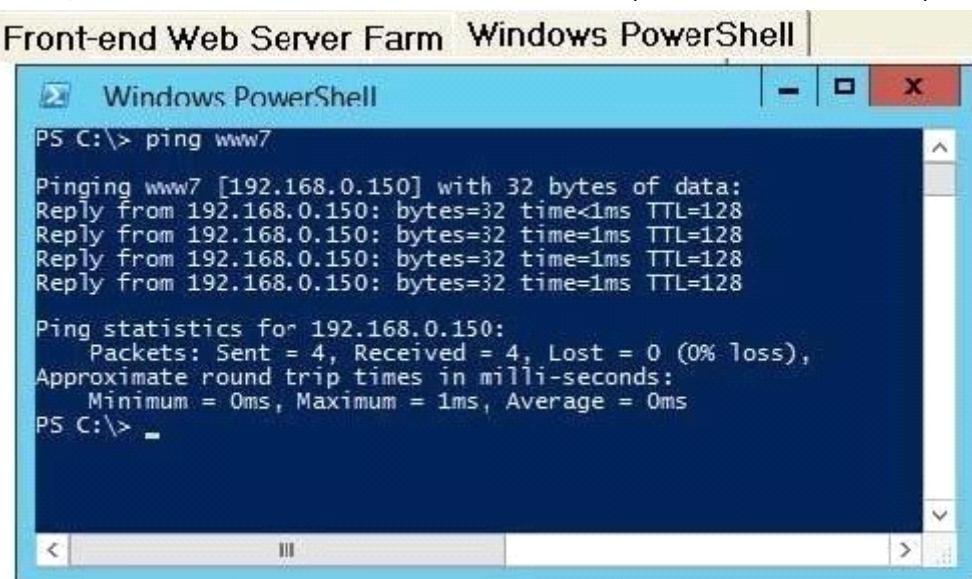


The servers are configured as shown in the following table:

Environment	Host Name	Subnet Assignment
www	www1	192.168.0.144
www	www2	192.168.0.145
www	www3	192.168.0.146
www	www4	192.168.0.147
www	www5	192.168.0.148
www	www6	192.168.0.149
www	www7	192.168.0.150

You perform connectivity tests between all of the front-end web servers. The connectivity tests all have the same results, as shown in the Windows PowerShell exhibit. (Click the Exhibit button.)

Front-end Web Server Farm Windows PowerShell



```
PS C:\> ping www7

Pinging www7 [192.168.0.150] with 32 bytes of data:
Reply from 192.168.0.150: bytes=32 time<1ms TTL=128
Reply from 192.168.0.150: bytes=32 time=1ms TTL=128
Reply from 192.168.0.150: bytes=32 time=1ms TTL=128
Reply from 192.168.0.150: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.0.150:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
PS C:\>
```

The company plans to enhance overall security of the virtual environment. The front-end web servers must NOT be able to communicate with each other. You need to implement changes to the environment. For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

Yes No

- A port virtual local area network (PVLAN) must be created for the front-end web servers.
- The IP addresses for the PVLAN must be in the same subnet as VLAN22.
- The front-end web servers must only communicate with the corporate network.

Answer:

Yes No

- A port virtual local area network (PVLAN) must be created for the front-end web servers.
- The IP addresses for the PVLAN must be in the same subnet as VLAN22.
- The front-end web servers must only communicate with the corporate network.

Explanation:

<http://blogs.technet.com/b/scvmm/archive/2013/06/04/logical-networks-part-iv-pvlan-isolation.aspx>

Question: 126

DRAG DROP

A company has a single-domain Active Directory Domain Services (AD DS) environment. Some servers and all domain controllers are deployed on the internal network. All servers in the perimeter network are joined to a workgroup. The company uses System Center 2012 R2 Operations Manager to monitor the server infrastructure on the internal network. The company plans to use Audit Collection Services (ACS) for one Internet Information Services (IIS) server that is in the perimeter network.

You need to configure the authentication type and ACS role for Operations Manager and the IIS server.

How should you configure the servers? To answer, drag the appropriate authentication type and ACS role to the location or locations in the answer area. Each authentication type and ACS role may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Operations Manager	IIS Server	IIS Server
Authentication Type		
ACS Role		

Answer:

	Operations Manager	IIS Server
Authentication Type	certificate	certificate
ACS Role	ACS collector	ACS forwarder

Explanation:

<http://technet.microsoft.com/en-us/library/hh872886.aspx>

Question: 127

HOTSPOT

You are the virtualization administrator for an organization.

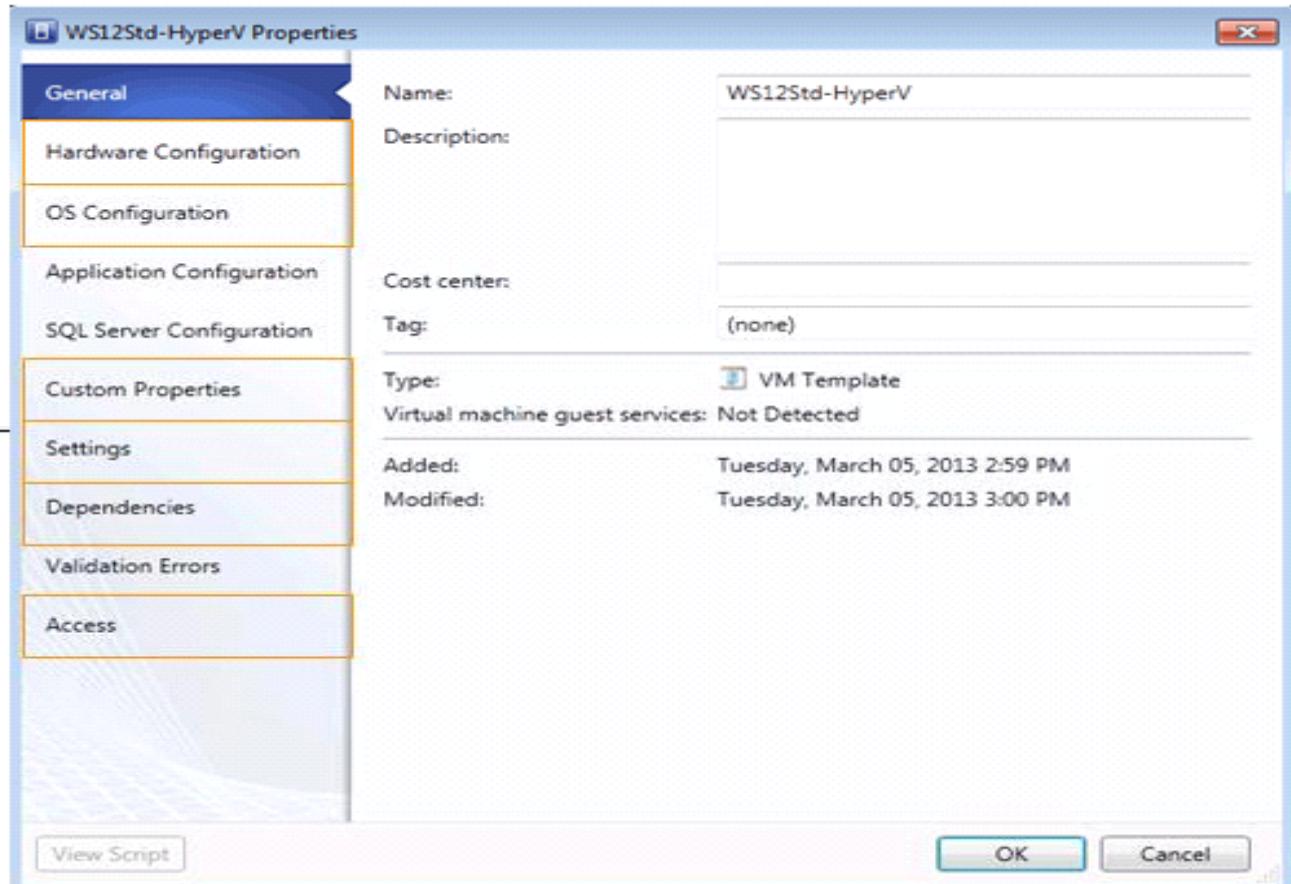
You use System Center 2012 R2 Virtual Machine Manager (VMM) to configure a virtual machine (VM) template that will host a new application.

You have the following requirements for new VMs that host the application:

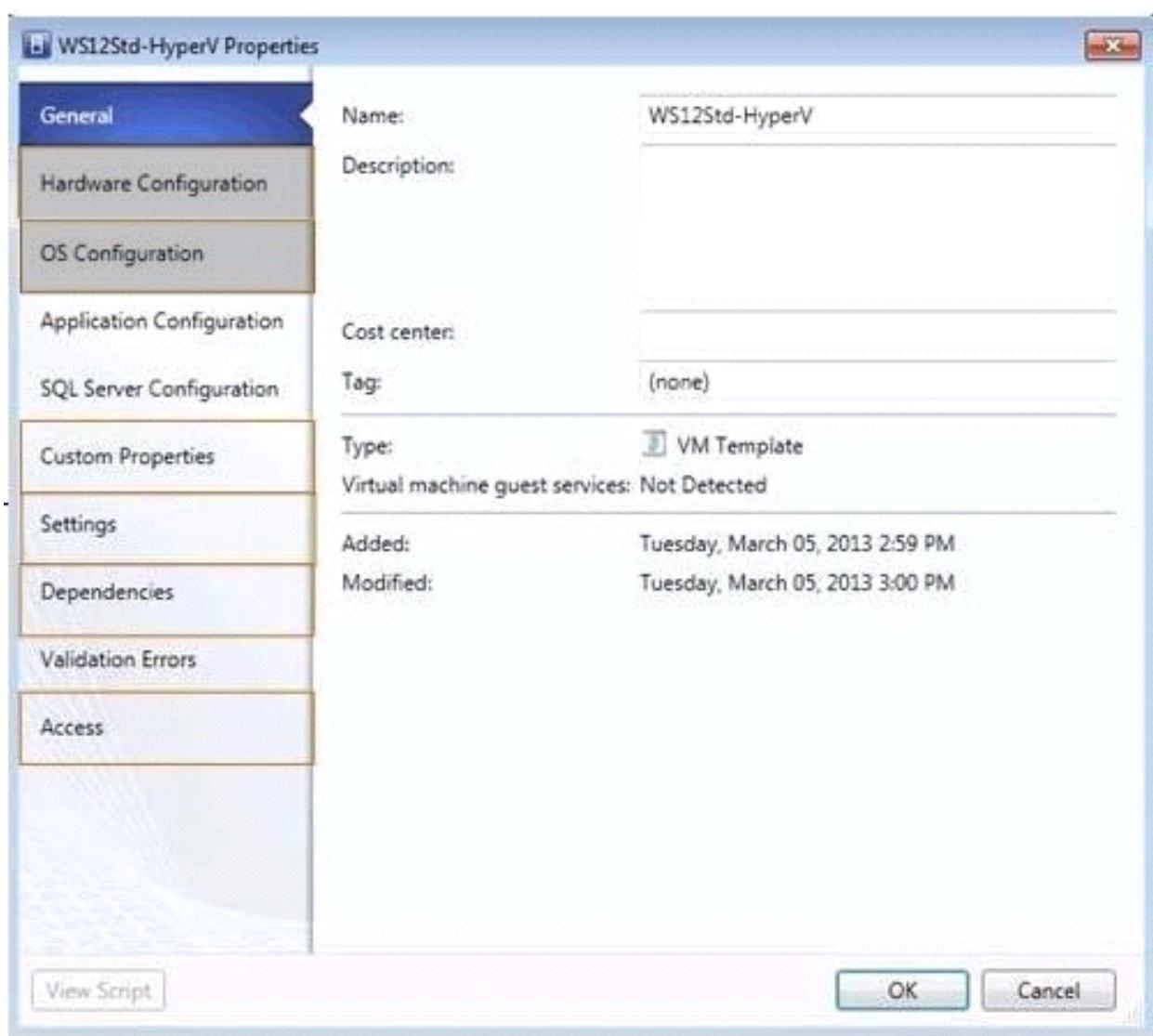
New VMs must be highly available.

You must join the VMs to an Active Directory Domain Services domain at deployment.

You need to modify the VM template to support the requirements. On the properties page for the template, which two settings should you configure? To answer, select the appropriate settings in the answer area.



Answer:



Question: 128

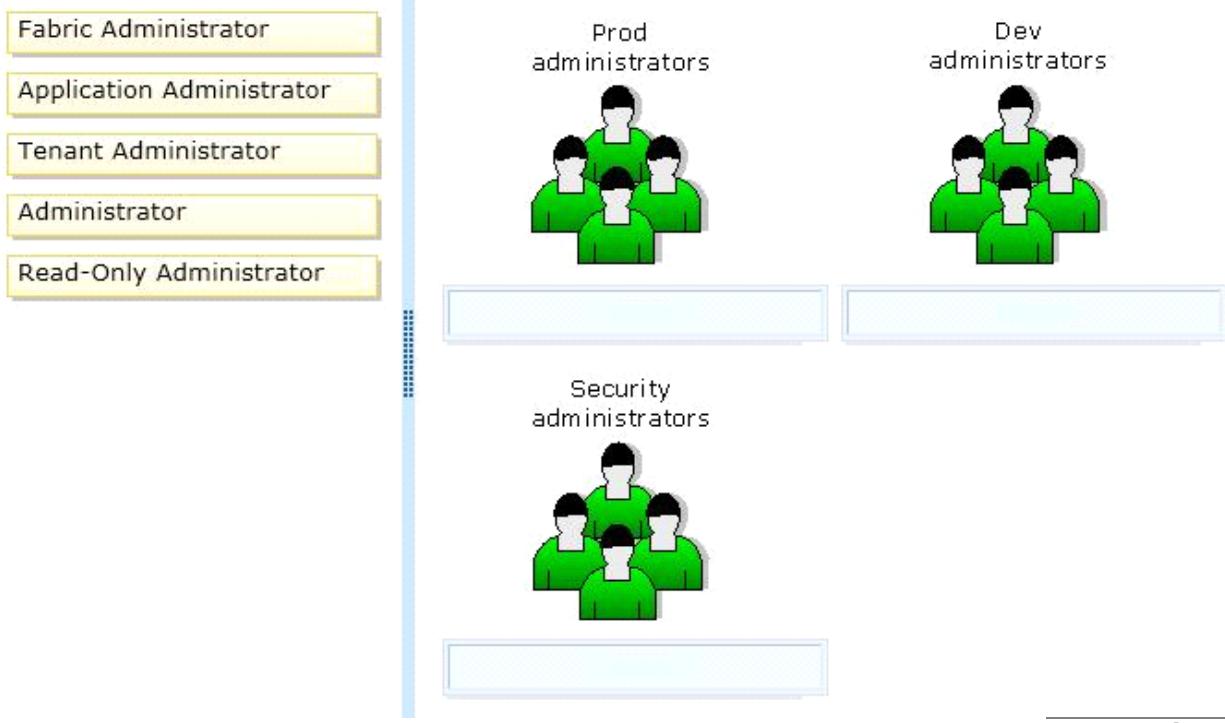
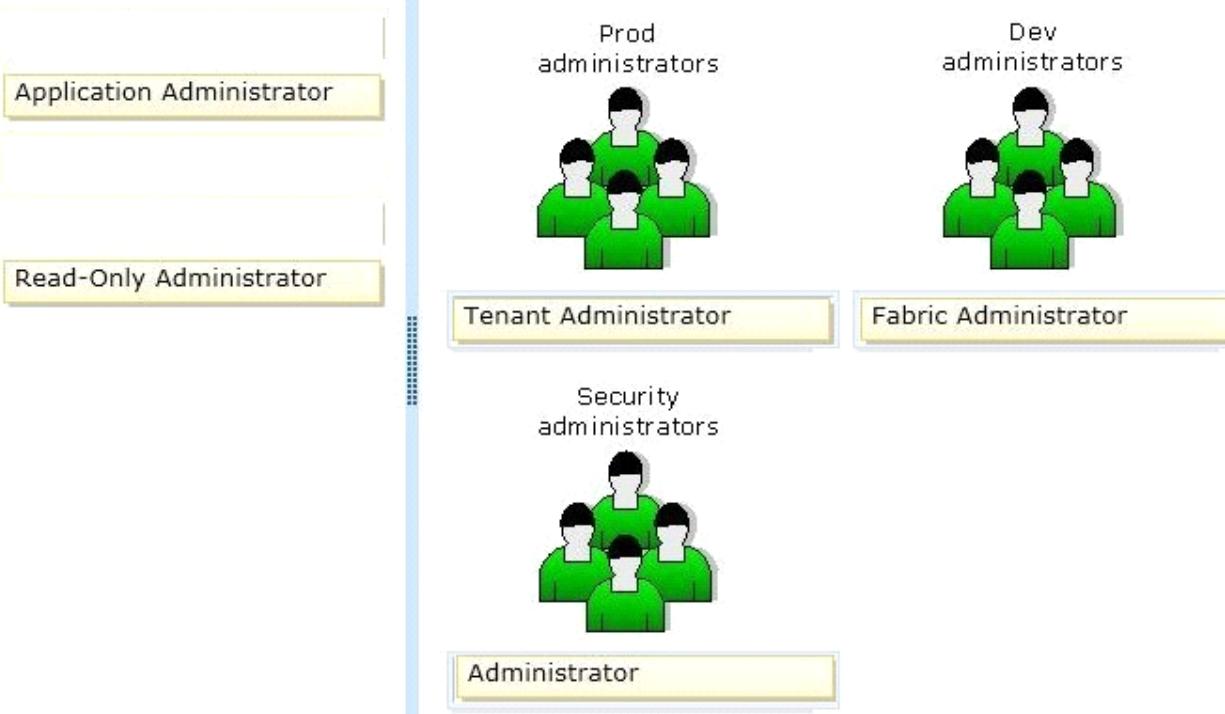
DRAG DROP

A company uses System Center 2012 R2 Virtual Machine Manager (VMM) to manage their Hyper-V environment. The VMM environment has two host groups named Dev and Prod. The Hyper-V environment has the following requirements:

- Administrators of the Prod host group must be able to manage virtual machines (VMs) and perform all VMM administrative tasks only within the Prod host group.
- Administrators of the Dev host group must be able to manage VMs and perform all VMM administrative tasks only within the Dev host group.
- Administrators of the Dev host group must be able to provision new Hyper-V host servers from physical computers for the Dev host group.
- The security administrators must be able to add user objects to the Administrator role in VMM.
- All delegation must adhere to the principle of least privilege.

You need to configure the user role profiles for each host group.

Which user role profiles should you assign? To answer, drag the appropriate user role profile to the correct user group. Each user role profile may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

**Answer:****Explanation:**

<http://technet.microsoft.com/en-us/library/gg696971.aspx>

Question: 129**DRAG DROP**

You are the virtualization administrator for an organization. You manage a virtual machine (VM) by using System Center 2012 R2 Virtual Machine Manager. The VM is in a running state.

You plan to use the System Preparation (Sysprep) tool to create a virtual machine template from the VM.

You need to save a copy of the VM before you run the Sysprep tool.

Which actions should you take? To answer, drag the appropriate actions to the correct locations in the answer area. Each action may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

pause
shut down
create checkpoint
create clone
store in library

	Action
Action to perform on the VM	
Operation to copy the VM	

Answer:

pause

create checkpoint

store in library

	Action
Action to perform on the VM	shut down
Operation to copy the VM	create clone

Question: 130

DRAG DROP

You use System Center 2012 R2 Virtual Machine Manager (VMM) to manage a Hyper-V environment that consists of two host groups named Dev1 and Prod1. It also has two private clouds named DevCloud and ProdCloud. You have a self-service user role named DevVMAdmins. DevVMAdmins does NOT have the rights to perform any actions. DevVMAdmins must have the ability to start virtual machines (VMs), stop VMs, and shut down VMs. It must also be able to use resources from other self-service users.

You need to configure the DevVMAdmins user role.

How should you complete the relevant Windows PowerShell command? To answer, drag the appropriate Windows PowerShell segments to the correct locations in the cmdlet. Each Windows PowerShell segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Set-SCUserRole
CanReceive
New-VMMUserRole
CanShare
Author

-UserRole \$UserRole
-Name "Dev VM Admins"
-Permission @(" ", "Shutdown", "Start", "Stop")

Answer:



Question: 131

DRAG DROP

A company uses System Center 2012 R2 Virtual Machine Manager (VMM). You need to create and assign a self-service user role in VMM.

You have the following requirements:

- All role members must share ownership of all virtual machines (VMs) that any role member creates, Role members must be able to deploy VMs.
- Role members must NOT have authoring rights.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Create a role and assign the local group to the user role.

Create a local security group.

Create a role and assign the Local Administrator action to the role members.

Assign the Deploy (From template only) action to the role members.

Create a role and assign the security group to the user role.

Create an Active Directory Domain Services security group.

Answer:

Box 1: Create a local security group.

Box 2: Create a role and assign the security group to the user role.

Box 3:

Assign the Deploy (From template only) action to the role members.

Question: 132

DRAG DROP

You are the virtualization administrator for an organization. The organization uses all components of System Center 2012 R2 in its production environment.

You need to configure the environment to support Performance and Resource Optimization (PRO).

How should you configure the environment? To answer, drag the appropriate server role to the correct location or locations. Each server role may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.



Operation	Server
Install the VMM console.	
Enable Agent Proxy for the Operations Manager agent.	

Answer:

Operation	Server
Install the VMM console.	Operations Manager Management Server
Enable Agent Proxy for the Operations Manager agent.	Virtual Machine Manager Server

Ref: <http://technet.microsoft.com/en-us/library/hh882396.aspx>

Question: 133

DRAG DROP

You administer a Hyper-V environment that uses Windows Server 2012 R2 and System Center 2012 R2 Virtual Machine Manager (VMM). A line-of-business (LOB) application requires two virtual machines (VMs). Each VM must have direct access to existing Fibre Channel storage.

You need to ensure that the two VMs have direct access to Fibre Channel storage.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Configure the Hyper-V host servers with one or more Fibre Channel host bus adapters (HBAs). Connect the Hyper-V host servers to the storage area network (SAN).

Configure each Hyper-V host server with at least one virtual storage area network (SAN). Add a Fibre Channel adapter to each VM.

Configure each Hyper-V host server with at least one Cluster Shared Volume (CSV).

Configure Storage Quality of Service (QoS) on each of the VMs.

Install a storage area network (SAN) that supports only N_Port ID Virtualization (NPIV).

Install a storage area network (SAN) that supports only Offloaded Data Transfer (ODX).

Answer:

Install a storage area network (SAN) that supports only N_Port ID Virtualization (NPIV).

Configure each Hyper-V host server with at least one virtual storage area network (SAN). Add a Fibre Channel adapter to each VM.

Configure the Hyper-V host servers with one or more Fibre Channel host bus adapters (HBAs). Connect the Hyper-V host servers to the storage area network (SAN).

Configure each Hyper-V host server with at least one Cluster Shared Volume (CSV).

Configure Storage Quality of Service (QoS) on each of the VMs.

Install a storage area network (SAN) that supports only Offloaded Data Transfer (ODX).

Question: 135

HOTSPOT

You manage a System Center 2012 R2 deployment that contains the servers configured as shown in the following table.

A virtual machine hosted on Server1

Virtual machines hosted on Server1A virtual machine hosted on Server1		
Name	Configuration	Operating system
Server1	Hyper-V	Windows Server 2012 R2
Server2	A node of a Scale-Out File Server named Cluster1	Windows Server 2012 R2
Server3	A node of a Scale-Out File Server named Cluster1	Windows Server 2012 R2
Server4	A virtual machine hosted on Server1	Windows Server 2012 R2

Server 2 has System Center 2012 R2 Data Protection Manager (DPM) installed. Server1 uses Cluster1 to host all VHDX files.

You need to minimize the storage consumption on DPM.

How should you configure Data Deduplication? To answer, select the appropriate options in the answer area.

Server1 only
Server1 and Server2
Server2 and Server3
Server3 and Server4

Volume on which to configure Data Deduplication:

The Cluster Shared Volumes (CSVs)
The DPM recovery point volume
The DPM replica volume
The Hyper-V local storage

Answer:

Server1 only
Server1 and Server2
Server2 and Server3
Server3 and Server4

Volume on which to configure Data Deduplication:

The Cluster Shared Volumes (CSVs)
The DPM recovery point volume
The DPM replica volume
The Hyper-V local storage

Question: 136

HOTSPOT

You manage a System Center 2012 R2 Virtual Manager (VMM) deployment that contains the servers configured as shown in the following table.

Name	Configuration
Server1	Service Provider Foundation
Server2	VMM
Server3	System Center 2012 R2 App Controller

You integrate VMM with Service Provider Foundation and App Controller.

You need to create a tenant self-service user role for the users who connect to VMM by using App Controller.

On which server should you perform each action? To answer, select the appropriate options in the answer area.

Run the **New-SCSPFTenantUserRole** cmdlet:

Server1	WP
Server2	WP
Server3	WP

Run the **New-SCUserRole** cmdlet:

Server1	WP
Server2	WP
Server3	WP

Configure the user role:

Server1	WP
Server2	WP
Server3	WP

Answer:

Run the **New-SCSPFTenantUserRole** cmdlet:

Server1	WP
Server2	WP
Server3	WP

Run the **New-SCUserRole** cmdlet:

Server1	WP
Server2	WP
Server3	WP

Configure the user role:

Server1	WP
Server2	WP
Server3	WP

Question: 137

DRAG DROP

You use System Center 2012 R2 Operations Manager to monitor several web applications. The web applications are accessed by users from multiple geographical locations.

You plan to provide a Summary Dashboard that shows the availability of the web applications by using a watcher node located at a site in Seattle. The Summary Dashboard and the watcher node are deployed already.

You need to enable the watcher node in the Seattle Site for the dashboard.

What should you run on the Operations Manager server? To answer, drag the appropriate cmdlets to the correct locations. Each cmdlets may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view

Get-SCOMAgent	Answer Area
Get-SCOMLocation	-DisplayName "Seattle, WA" -Latitude 47.60
New-SCOMAgent	\$Seattle =
New-SCOMLocation	\$Watcher =
Set-SCOMAgent	
Set-SCOMLocation	-Location \$Seattle -Agent \$Watcher

Answer:

Get-SCOMLocation	Answer Area
New-SCOMAgent	New-SCOMLocation -DisplayName "Seattle, WA" -Latitude 47.60
	\$Seattle = Get-SCOMAgent
	\$Watcher = Set-SCOMAgent
	Set-SCOMLocation -Location \$Seattle -Agent \$Watcher

Question: 138

HOTSPOT

You have a System Center 2012 R2 Virtual Machine Manager (VMM) deployment that contains the servers configured as shown in the following table

Name	Configuration
Server1	VMM
Server2	Hyper-V host

You plan to set up Microsoft Azure Site Recovery for the virtual machines hosted in VMM. You will use Azure as the recovery site. You need to identify which actions must be performed on-premises before you can implement Azure Site Recovery protection.

Answer Area

Component to install on Server1:

Azure Backup Agent
 Azure Site Recovery Provider
 Azure Site Recovery Services Agent

Component to install on Server2:

Azure Backup Agent
 Azure Site Recovery Provider
 Azure Site Recovery Services Agent

Tool used to enable protection for the virtual machines:

Azure Backup
 Hyper-V Manager
 The VMM console

Answer:**Answer Area**

Component to install on Server1:

Azure Backup Agent
 Azure Site Recovery Provider
 Azure Site Recovery Services Agent

Component to install on Server2:

Azure Backup Agent
 Azure Site Recovery Provider
 Azure Site Recovery Services Agent

Tool used to enable protection for the virtual machines:

Azure Backup
 Hyper-V Manager
 The VMM console

Question: 139**HOTSPOT**

You use System Center 2012 R2 Virtual Machine Manager (VMM) to manage the virtualization infrastructure. You deploy a service named Service1. Service1 has two tiers. Each tier contains one upgrade domain and multiple virtual machines. You plan to update Service1.

You need to identify which changes can be applied to Service 1 without requiring downtime and which updates require downtime.

What should you identify? To answer, select the appropriate options in the answer area.

Answer Area

Increase the number of upgrade domains in a tier:

Requires downtime
Does not require downtime

Change the generation of the virtual machines in a tier:

Requires downtime
Does not require downtime

Change the size of a disk for the virtual machines in a tier:

Requires downtime
Does not require downtime

Remove a network adapter from the virtual machines in a tier:

Requires downtime
Does not require downtime

Answer:

Answer Area

Increase the number of upgrade domains in a tier:

Requires downtime
Does not require downtime

Change the generation of the virtual machines in a tier:

Requires downtime
Does not require downtime

Change the size of a disk for the virtual machines in a tier:

Requires downtime
Does not require downtime

Remove a network adapter from the virtual machines in a tier:

Requires downtime
Does not require downtime