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70-745

**Implementing a Software-Defined Datacenter**

**Testlet 1**

**Background**

**General**

Alpine Ski House is a global resort and retail company that has a main office in Toronto. The main office hosts the primary datacenter for the company.

The datacenter contains servers that run Windows Server 2012 R2 and Windows Server 2016. The environment contains Microsoft System Center Virtual Machine Manager (SCVMM) and System Center Configuration Manager (SCCM).

### **Network environment**

The company uses Microsoft Azure with the Operations Management Suite (OMS). The following servers are deployed: ▪

Network Controller

- Nano Servers that run IIS
- Hyper-V host servers that run Windows Server 2012 R2 ▪
- SQL Server 2014

All existing virtual machines (VMs) are Generation 1 VMs that run Windows Server 2012 R2.

You have the following VM networks:

- one datacenter network named DCN1 ▪
- one management network named MGN1
- one tenant network named Network1 that is isolated in the SCVMM fabric ▪
- five additional tenant networks for VMs

### **Business Requirements**

The company has signed a license agreement with Microsoft to use all System Center products.

You plan to deploy a distributed System Center Operations Manager (SCOM) environment in the Toronto datacenter. The SCOM server must use an existing SQL Server instance. A dedicated SQL Server service account must be used for the SCOM installation.

### **Technical Requirements**

Compute environment

The company plans to deploy 10 new servers that run Hyper-V in the Toronto datacenter. All new Hyper-V host servers must run Nano Server. You create a blank Nano Server VHD and store the image at the following location: F:\HyperVNano.vhd.

The compute environment has the following requirements:

- IIS Nano Servers must appear in the SCVMM console.
- All new Nano Servers must be managed by SCVMM when they are deployed.
- All new VMs must be deployed and shielded by using SCVMM templates.
  
- All VMs must support shielding.

### Network environment

You create a certificate file named Cert.cer for Network Controller.

You must implement a software load balancer (SLB) by using SCVMM service templates. The SLB template has been named SLBTemplate.xml.

The network environment has the following requirements:

- Use the SvcAdmin local user account for all service templates.
- Configure firewall rules by using access control lists (ACLs).
- Configure specific network interfaces to use individual ACLs.

### QUESTION 1

You need to ensure that the existing VMs meet the requirements.

What should you do?



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- A. Modify the VM disks to Differencing.
- B. Upgrade the VM operating system to Windows Server 2016 Standard edition.
- C. Modify the VM configuration to Generation 2.
- D. Upgrade the VM operating system to Windows Server 2016 Datacenter edition.

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

### QUESTION 2

You need to ensure that Network1 can communicate with other virtual networks.

What should you do?

- A. Configure logical switches for the VMs on Network1.
- B. Create an IP address pool for Network1.
- C. Create port profiles for the VMs on Network1.
- D. Configure a gateway in SCVMM.

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

### QUESTION 3

You need to install SCOM.

Which SCOM component should you install first?

- A. Reporting server
- B. Web console
- C. Management server
- D. Operations console



**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

**Question Set 1**

### QUESTION 1

You need to configure an SDN network controller for the SCVMM test environment.

What should you do first?

- A. In SCVMM, create a dedicated host group for Det-Server3, Det-Server4, and Det-Server5.
- B. In AD DS, create a security group and add Det-Server3, Det-Server4, and Det-Server5.

- C. In AD DS, create a security group and add Det-Server6, Det-Server7, and Det-Server8.
- D. In SCVMM, create a dedicated host group for Det-Server6, Det-Server7, and Det-Server8.

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/system-center/vmm/sdn-controller?view=sc-vmm-1801>

## QUESTION 2

You need to configure the network settings for the SLB in the test environment.

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

**NOTE:** Each correct selection is worth one point.



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- A. Create a logical network that uses the **Private VLAN networks** option.
- B. Create a logical network that uses the **One connected network** option.
- C. Create a private VIP and IP address pool that uses the IP range 10.10.90.2 - 10.10.90.254. Create a public VIP and IP address pool that uses the IP range 10.10.20.2 – 10.10.20.254.
- D. Create a private VIP and IP address pool that uses the IP range 10.40.90.2 - 10.40.90.254. Create a public VIP and IP address pool that uses the IP range 10.40.20.2 – 10.40.20.254.

**Correct Answer:** AD

**Section:** [none]

**Explanation**

**Explanation/Reference:**



## Question Set 1

### QUESTION 1

**Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.**

**After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.**

Your company has two datacenters. You have Windows servers in both locations. The network that connects the datacenters has high bandwidth and low latency.

You are designing a new virtual machine (VM) and storage environment based on servers that run Windows Server 2016. You need to implement a solution that meets the following storage requirements:

Tolerates the failure of a single datacenter.

Ensures zero data loss in the event of a file system failure.

Solution: You implement offloaded data transfers.

Does the solution meet the goal?

A. Yes

B. No



**Correct Answer: B**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

### QUESTION 2

**Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.**

**After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.**

Your company has two datacenters. You have Windows servers in both locations. The network that connects the datacenters has high bandwidth and low latency.

You are designing a new virtual machine (VM) and storage environment based on servers that run Windows Server 2016. You need to implement a solution that meets the following storage requirements:

- Tolerates the failure of a single datacenter.

- Ensures zero data loss in the event of a file system failure.

Solution: You implement Distributed File System Replication.

Does the solution meet the goal?



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- A. Yes
- B. No

**Correct Answer:** B

**Section:** [none]

**Explanation**



**Explanation/Reference:**

### QUESTION 3

**Note:** This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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Your company has two datacenters. You have Windows servers in both locations. The network that connects the datacenters has high bandwidth and low latency.

You are designing a new virtual machine (VM) and storage environment based on servers that run Windows Server 2016. You need to implement a solution that meets the following storage requirements:

- Tolerates the failure of a single datacenter.
- Ensures zero data loss in the event of a file system failure.

Solution: You implement a storage replica with synchronous replication.

Does the solution meet the goal?

- A. Yes
- B. No

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

#### QUESTION 4

You administer Microsoft System Center Virtual Machine Manager (SCVMM).

You need to access the Network Controller diagnostic logs.

Where should you view the logs?

- A. %programfiles%\DiagnosticLogs
- B. %windir%\SDNDiagnostics
- C. %systemdrive%\SDNDiagnostics
- D. %systemroot%\DiagnosticLogs



**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

You deploy a Microsoft Hyper-V host server and install the Network Controller role.

You need to modify the application settings of the Network Controller.

Which Windows PowerShell cmdlet should you run?

- A. Set-NetworkControllerVirtualNetworkConfiguration

- B. Set-NetworkController
- C. Set-NetworkControllerNode
- D. Set-NetworkControllerCluster

**Correct Answer: B**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

### QUESTION 6

You manage Microsoft System Center Virtual Machine Manager (SCVMM). You plan to implement a software load balancer (SLB) Multiplexer (MUX).

You need to configure the Microsoft Hyper-V host servers to host the MUX.

What should you do?

- A. Configure Windows Server Gateway.
- B. Install the SLB Host Agent on each Hyper-V host.
- C. Configure virtual machine resource metering.
- D. Configure a Remote Access Service gateway.



**Correct Answer: B**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

References: <https://technet.microsoft.com/en-US/library/mt632286.aspx>

### QUESTION 7

You administer the Microsoft System Center Virtual Machine Manager (SCVMM) infrastructure for an organization. You deploy a software load balancer (SLB).

You need to create a health probe to verify that the VIP pool members are healthy.

Which health probe response code should you identify?

- A. 200
- B. 202
- C. 300
- D. 302

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/windows-server/networking/sdn/manage/configure-slb-and-nat>

### QUESTION 8

You manage virtual machine (VM) workloads in an environment that includes the following objects:

- an IP address pool
- a software load balancer (SLB) object
- an SLB rule ▪ a public VIP address

You monitor network traffic logs and observe that a VM does not service requests for the VIP address.

You need to configure the virtual network so that traffic is not sent to a VM that is unavailable.

What should you do?

- A. Add a health probe. Change the SLB configuration to use the health probe. Redeploy the SLB rule.
- B. Add support for HTTP keep-alive. Change the SLB configuration to Enable keep-alive. Redeploy the SLB rule.
- C. Change the VM IP addresses to public IP addresses. Redeploy the SLB rule.
- D. Change the protocol for the SLB rule to UDP. Redeploy the SLB rule.

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

### QUESTION 9

You manage Microsoft System Center Virtual Machine Manager (SCVMM).

You need to block specific packets on the virtual switch.

Which two types of virtual switch extensions can you use? Each correct answer presents a complete solution.

**NOTE:** Each correct selection is worth one point.

- A. capturing extensions
- B. forwarding extensions
- C. monitoring extensions
- D. filtering extensions

**Correct Answer:** BD

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/windows-hardware/drivers/network/overview-of-the-hyper-v-extensible-switch>

#### **QUESTION 10**

You manage a Microsoft Hyper-V host server that has several high-speed physical network adapters.

You need to attach a physical network adapter directly to a virtual machine (VM).

What should you do first?

- A. Assign the adapter to the VM.
- B. Disable the adapter on the Hyper-V host.
- C. Install the device driver on the Hyper-V host.
- D. Install the device driver on the VM.

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

QUESTION 11

**Actions**

Set-NetworkController

Install-NetworkControllerCluster

Install-NetworkController

Install-WindowsFeature

New-NetworkControllerNodeObject

**Answer Area**



DRAG DROP

You plan to deploy a Windows Server Gateway (WSG). The gateway will be managed by Network Controller.

You need to install and configure a Network Controller cluster.

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

**Select and Place:**

**Correct Answer:**

**Section:** [none]

**Explanation**

## Actions

Set-NetworkController

## Answer Area

Install-WindowsFeature

New-NetworkControllerNode

Install-NetworkController

Install-NetworkController

### Explanation/Reference:

#### QUESTION 12

You deploy Microsoft System Center Virtual Machine Manager (SCVMM) and System Center Operations Manager (SCOM). You integrate SCVMM with SCOM.

You need to view the reports for SCVMM.

What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

- A. Launch the SCOM console.
- B. Launch the SCVMM console.
- C. Run the Windows PowerShell cmdlet `Get-SCOMMonitor`.
- D. Run the Windows PowerShell cmdlet `Get-SCOMReportingSetting`.
- E. View the Reporting server website for SCOM.

**Correct Answer:** AE

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/system-center/vmm/monitor?view=sc-vmm-1801>

**QUESTION 13**

You install Microsoft System Center Operations Manager (SCOM) and download a sealed management pack.

You receive notifications from a monitor that a critical resource experiences an overload situation. When you check the resource, it is not in an overloaded condition.

You need to add a new threshold value for the resource.

What should you create?



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- A. an override in an existing management pack
- B. an override in a new management pack
- C. a monitor in a new management pack
- D. a monitor in an existing management pack

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

You deploy Microsoft System Center Virtual Machine Manager (SCVMM) and System Center Operations Manager (SCOM). You install the SCOM agent on the SCVMM server. You install the SCVMM management pack.

You need to ensure that Performance and Resource Optimization (PRO) is available.

What should you run?

- A. the SCOM setup wizard
- B. the integration wizard in the SCVMM console
- C. the integration wizard in the SCOM console
- D. the SCVMM setup wizard

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/system-center/vmm/monitors-ops-manager?view=sc-vmm-1801>

**QUESTION 15**

You deploy Microsoft System Center Virtual Machine Manager (SCVMM). You configure shielded virtual machines (VMs) by using virtual Trusted Platform Modules (vTPM). The shielded VMs are in the existing guarded fabric.

You deploy System Center Data Protection Manager (DPM).

You need to identify the scenarios for which you can use DPM to back up the VMs.

For which two scenarios can you use DPM? Each correct answer presents a complete solution.

- A. shielded VMs not protected with vTPM
- B. Item Level Recovery and Alternate Location Recovery outside of the guarded fabric
- C. Item Level Recovery and Alternate Location Recovery in the guarded fabric
- D. shielded VMs protected with vTPM

**Correct Answer:** CD

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/system-center/dpm/what-s-new-in-dpm-2016?view=sc-dpm-1801>

**QUESTION 16**

You plan to deploy a Nano Server that has the Microsoft Hyper-V role installed.

You must deploy the Nano Server host in a hyper-converged mode that has a Microsoft System Center Virtual Machine Manager (SCVMM) agent installed. You need to prepare a Nano Server VHD for a physical machine.

Which three packages should you include in the VHD? Each correct answer presents part of the solution.

**NOTE:** Each correct selection is worth one point.

- A. Microsoft-NanoServer-DCB-Package
- B. Microsoft-NanoServer-SCVMM-Package
- C. Microsoft-NanoServer-SCVMM-Compute-Package
- D. Microsoft-NanoServer-Storage-Package
- E. Microsoft-NanoServer-NPDS-Package



**Correct Answer:** BCD

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/system-center/vmm/hyper-v-nano?view=sc-vmm-2016>

**QUESTION 17 HOTSPOT**

A company has an Active Directory Domain Services (AD DS) domain named corp.contoso.com.

You must install Microsoft System Center Virtual Machine Manager (SCVMM) and implement distributed key management (DKM). You must follow the principle of least privilege. Keys must be stored in a container named VMMKeys.

You need to ensure that you can store the cryptographic keys in AD DS.

How should you configure the environment? To answer, select the appropriate options in the dialog box in the answer area.

**NOTE:** Each correct selection is worth one point.

**Hot Area:**

## Answer Area

Requirement	Option
DistinguishedName of AD DS container	<div data-bbox="1223 461 1944 515" style="border: 1px solid black; padding: 2px;">▼</div> <div data-bbox="1223 515 1944 576" style="border: 1px solid black; padding: 2px;">CN=VMMKeys,DC=corp,DC=contoso,DC=com</div> <div data-bbox="1223 576 1944 636" style="border: 1px solid black; padding: 2px;">CN=VMMKeys,DC=contoso,DC=com</div> <div data-bbox="1223 636 1944 697" style="border: 1px solid black; padding: 2px;">DC=VMMKeys,DC=corp,DC=contoso,DC=com</div> <div data-bbox="1223 697 1944 743" style="border: 1px solid black; padding: 2px;">DC=VMMKeys,DC=contoso,DC=com</div>
Container permissions for SCVMM installation	<div data-bbox="1223 772 1944 828" style="border: 1px solid black; padding: 2px;">▼</div> <div data-bbox="1223 828 1944 888" style="border: 1px solid black; padding: 2px;">Full Control</div> <div data-bbox="1223 888 1944 949" style="border: 1px solid black; padding: 2px;">Modify</div> <div data-bbox="1223 949 1944 1011" style="border: 1px solid black; padding: 2px;">Write</div>

**Correct Answer:**

## Answer Area

### Requirement

DistinguishedName of AD DS container

### Option

	▼
CN=VMMKeys,DC=corp,DC=contoso,DC=com	
CN=VMMKeys,DC=contoso,DC=com	
DC=VMMKeys,DC=corp,DC=contoso,DC=com	
DC=VMMKeys,DC=contoso,DC=com	

Container permissions for SCVMM installation

	▼
Full Control	
Modify	
Write	

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

References: [https://technet.microsoft.com/en-us/library/gg697604\(v=sc.12\).aspx](https://technet.microsoft.com/en-us/library/gg697604(v=sc.12).aspx)

### QUESTION 18

You administer a Microsoft System Center Virtual Machine Manager (SCVMM) infrastructure. You have a Microsoft Azure subscription.

You must design a backup strategy that meets the following requirements:

- Back up the SCVMM hosts, virtual machines (VMs), and workloads.
- Use a protection agent to perform the backups. ▪ Automate the backup process.

You need to recommend a backup solution.

What should you recommend?

- A. Windows PowerShell script that runs Disk2VHD
- B. Microsoft Hyper-V Replica
- C. WBAdmin.exe
- D. System Center Data Protection Manager

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**



**QUESTION 19**

DRAG DROP

You are securing the servers in Microsoft System Center Virtual Machine Manager (SCVMM).

You must use Network Controller to configure and manage servers that are on the same data plane as your Software Defined Network (SDN).

You need to configure the protocols and authentication types.

Which protocols and authentication types should you use for each server? To answer, drag the appropriate protocols or authentication types to the correct devices or services. Each protocol or authentication type 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.

**NOTE:** Each correct selection is worth one point.

**Select and Place:**

### Protocol and authentication type

Certificates

Kerberos

OVSDB

WinRM

WCF

### Answer Area

#### Southbound device or service

Software load balancer

Virtual networking

Firewall

Gateway

User-defined routing

#### Protocol

WCF (MUX). TCP (Host)

OVSDB, WCF

Protocol/Auth type

Protocol/Auth type

OVSDB

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

Protocol and authentication type	Answer Area	
Certificates	<b>Southbound device or service</b>	<b>Protocol</b>
Kerberos	Software load balancer	WCF (MUX). TCP (Host)
OVSDB	Virtual networking	OVSDB, WCF
WinRM	Firewall	OVSDB
WCF	Gateway	WinRM
	User-defined routing	OVSDB

References: <https://docs.microsoft.com/en-us/windows-server/networking/sdn/security/nc-security>

**QUESTION 20**

You manage a datacenter that includes Software Defined Storage (SDS) and Microsoft System Center Virtual Machine Manager (SCVMM). You have a Microsoft Azure subscription.

You need to automate the replication of Hyper-V virtual machines (VMs) to Azure by using Azure Site Recovery (ASR).

Which three resources should you implement? Each correct answer presents part of a solution.

**NOTE:** Each correct selection is worth one point.

- A. Bitlocker-enabled VMs

- B. Azure storage account
- C. Microsoft Hyper-V VMs with hot storage
- D. SCVMM host group
- E. Azure Recovery Services Vault
- F. Shielded VMs

**Correct Answer:** BDE

**Section:** [none]

**Explanation**

**Explanation/Reference:**

#### QUESTION 21

You manage Microsoft System Center Virtual Machine Manager (SCVMM).

You need to ensure that all virtual machines (VMs) are fault tolerant. You must set storage tier sizes.

Which three Windows PowerShell cmdlets should you run? Each correct answer presents part of the solution.

**NOTE:** Each correct selection is worth one point.

- A. Optimize-Volume
- B. Enable-ClusterS2D
- C. Set-ClusterParameter
- D. New-Cluster
- E. New-Volume

**Correct Answer:** BDE

**Section:** [none]

**Explanation**

**Explanation/Reference:**

#### QUESTION 22

**Note:** This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

**After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.**

You use Microsoft System Center Virtual Machine Manager (SCVMM) to manage your company's virtual infrastructure.

You need to install a host server that can run the full version of the .NET framework.

Solution: Install the host server using the Desktop Experience installation option.

Does the solution meet the goal?

- A. Yes
- B. No

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

#### QUESTION 23

**Note:** This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

**After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.**

You use Microsoft System Center Virtual Machine Manager (SCVMM) to manage your company's virtual infrastructure.

You need to install a host server that can run the full version of the .NET framework.

Solution: Install the host server as Windows Server 2016 Server Core.

Does the solution meet the goal?



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- A. Yes
- B. No

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**



#### QUESTION 24

**Note:** This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

**After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.**

You use Microsoft System Center Virtual Machine Manager (SCVMM) to manage your company's virtual infrastructure.

You need to install a host server that can run the full version of the .NET framework.

Solution: Install a host server that runs Windows Server 2016 R2 Server Core. Add the Desktop Experience feature.

Does the solution meet the goal?

- A. Yes
- B. No

**Correct Answer:** A

Section: [none]

Explanation

Explanation/Reference:



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