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Exam : **70-745**

Title : Implementing a Software-Defined Datacenter

Version : DEMO

1. 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.

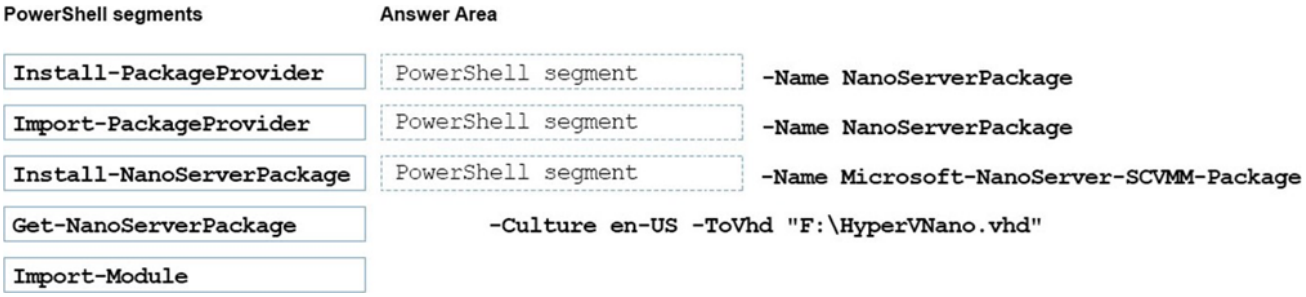
You need to ensure that the existing VMs meet the requirements.
What should you do?
A. Modify the VM disks to Differencing.
B. Upgrade the VM operating system to Windows Server 2016 Standard edition.
C. Modify the VM configuration to Generation 2.
D. Upgrade the VM operating system to Windows Server 2016 Datacenter edition.
Answer: D
Explanation:
Windows Server 2016 Datacenter supports Shielded Virtual Machines.
References:
https://blogs.technet.microsoft.com/ausoemteam/2016/09/02/whats-new-in-windows-server-2016-standard-edition-part-7-virtualisation/

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.
Answer: D
Explanation:
If you're using isolated VM networks in your VMM fabric, VMs associated with a network can only connect to machines in the same subnet. If you want to connect VMs further than the subnet you'll need a gateway.
References:
https://docs.microsoft.com/en-us/system-center/vmm/network-gateway?view=sc-vmm-1807

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
Answer: C
Explanation:
In System Center Operations Manager, the first feature you install is the management server.
References:
https://docs.microsoft.com/en-us/system-center/scom/deploy-install-mgmt-server?view=sc-om-1807

4.DRAG DROP
You need to ensure that you can deploy the Hyper-V host servers.
How should you complete the Windows PowerShell commands? To answer, drag the appropriate Windows PowerShell segments to the correct locations. 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. NOTE: Each correct selection is worth one point.



Answer:

Explanation:
If you didn't add the VMM packages when you created the Nano Server VHD, you can install them later, as follows:
Copy the VHD/VHDX to a location on a Windows Server 2016 machine. For example: C:\MyNano.vhd.
Use PowerShell to install and import the NanoServerPackage provider of the PackageManagement (OneGet) PowerShell module:
Install-PackageProvider NanoServerPackage
Import-PackageProvider NanoServerPackage
3. After the provider is installed, you can search and install the VMM packages (VMM agent and Hyper-V),
on the VHD using these cmdlets, where C:\MyNano.vhd is the location of the Nano Server based VHD.
Find-NanoServerPackage Install-NanoServerPackage -Name Microsoft-NanoServer-SCVMM-Package

-culture en-US -ToVhd "C:\MyNano.vhd" Install-NanoServerPackage -Name Microsoft-NanoServer-SCVMM-Compute-Package -culture en-US -ToVhd "C:\MyNano.vhd"
References:
https://docs.microsoft.com/en-us/system-center/vmm/hyper-v-nano?view=sc-vmm-2016

5.DRAG DROP
You need to configure the IIS Nano Servers.
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
Restart the Nano Server.	
Run the Windows PowerShell cmdlet `Install-NanoServerPackage`.	
Copy the Nano Server packages to the Nano Server.	
Use the `dism` command on the Nano Server.	
Copy the Nano Server packages to the Hyper-V host.	

Answer:

Actions	Answer Area
Restart the Nano Server.	Copy the Nano Server packages to the Nano Server.
Run the Windows PowerShell cmdlet `Install-NanoServerPackage`.	Use the `dism` command on the Nano Server.
Copy the Nano Server packages to the Nano Server.	Restart the Nano Server.
Use the `dism` command on the Nano Server.	
Copy the Nano Server packages to the Hyper-V host.	

Explanation:
Install the VMM packages on a running Nano server host
1. Copy the Packages folder from the local installation media to the running Nano server. For example, to C:\packages.
2. Use remote PowerShell to log onto the Nano server.
3. Add the VMM packages using the below commands:
- To install Microsoft-NanoServer-SCVMM-Package
dism /online /Add-package /PackagePath:C:\packages\en-US\Microsoft-NanoServer-SCVMM-Package_en-us.cab
- To install Microsoft-NanoServer-SCVMM-Compute-Package:
dism /online /Add-package /PackagePath:C:\packages\en-US\Microsoft-NanoServer-SCVMM-Compute-Package_en-us.cab

4. Check that the VMM packages, and the associated language packs, are installed correctly by running the following command:
dism /online /get-packages
5. You should see Package Identity:
Microsoft-NanoServer-SCVMM-Feature-Package~31bf3856ad364e35~amd64~~ 10.0.14300.1003 listed twice. Once for Release Type: Language Pack, and once for Release Type : Feature Pack. The same applies for the Microsoft-NanoServer-SCVMM-Compute-Package.
6. Restart the Nano Server host.
After the Nano server host is ready, add it to the VMM fabric.
References:
https://docs.microsoft.com/en-us/system-center/vmm/hyper-v-nano?view=sc-vmm-2016