➢ **Vendor: Microsoft**

➢ **Exam Code: 70-743**

➢ **Exam Name: Upgrading Your Skills to MCSA: Windows Server 2016**

➢ **Question 1 – Question 20**

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QUESTION 1
Hotspot Question
You have a server named Served that runs Windows Server 2016. Server1 has the Windows Application Proxy role service installed. You are publishing an application named App1 that will use Integrated Windows authentication as shown in the following graphic.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

Answer Area

Before you can complete the wizard, you must [answer choice].

| ▼ |
| change the external certificate |
| configure the Backend server SPN |
| select Enable HTTP to HTTPS redirection |

To ensure that users can access App1 externally, you must change the External URL to [answer choice].

| ▼ |
| https://app1.contoso.com/app1 |
| http://server02.contoso.com/app1 |
| https://server02.contoso.com/publish/app1 |

Answer:

Answer Area

Before you can complete the wizard, you must [answer choice].

| ▼ |
| change the external certificate |
| **configure the Backend server SPN** |
| select Enable HTTP to HTTPS redirection |

To ensure that users can access App1 externally, you must change the External URL to [answer choice].

| ▼ |
| https://app1.contoso.com/app1 |
| http://server02.contoso.com/app1 |
| **https://server02.contoso.com/publish/app1** |

Explanation:
https://technet.microsoft.com/en-us/library/dn383640(v=ws.11).aspx

QUESTION 2
Your network contains three Hyper-V hosts. You add all of the hosts to a cluster. You need to create highly available storage spaces that connect to directly attached storage on the hosts. Which cmdlet should you use?

A. Enable-Cluster Storage Spaces Dired
B. Set-Storage Pool
C. Add-Cluster Disk
D. Update-Cluster Virtual Machine Configuration

Answer: A
Explanation:

The Enable-ClusterStorageSpacesDirect cmdlet enables highly available Storage Spaces that use directly attached Storage Spaces Direct (S2D) on a cluster.

QUESTION 3
Drag and Drop Question
You have a server named Server1 that runs Windows Server 2016. You need to deploy the first node cluster of a Network Controller cluster. 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.)

Actions	Answer Area
Install-WindowsFeature	1.
New-NetworkControllerNodeObject	2.
Enable-NetworkControllerNode	3.
Install-NetworkController	4.
Install-NetworkControllerCluster	

Answer:

Actions	Answer Area
Enable-NetworkControllerNode	Install-WindowsFeature
	New-NetworkControllerNodeObject
	Install-NetworkControllerCluster
	Install-NetworkController

Explanation:
https://technet.microsoft.com/en-us/library/mt282165.aspx

QUESTION 4
You have an application named App1. App1 is distributed to multiple Hyper-V virtual machines in a multitenant environment. You need to ensure that the traffic is distributed evenly among the virtual machines that host App1. What should you include in the environment?

A. Network Controller and Windows Server Network Load Balancing (NLB) nodes
B. Network Controller and Windows Server Software Load Balancing (SLB) nodes
C. an RAS Gateway and Windows Server Network Load Balancing (NLB) nodes
D. an RAS Gateway and Windows Server Software Load Balancing (SLB) nodes

Answer: D

QUESTION 5
Your company has 10 offices. Each office has a local network that contains several Hyper-V hosts that run Windows Server 2016. All of the offices are connected by high speed, low latency WAN links. You need to ensure that you can use QoS policies for Live Migration traffic between the offices. Which component should you install?

A. the Multipath I/O feature
B. the Routing role service
C. the Network Controller server role
D. the Canary Network Diagnostics feature
E. the Data Center Bridging feature

Answer: CE

QUESTION 6
Hotspot Question
You have an Active Directory domain named Contoso com. The domain contains Hyper-V hosts named Server1 and Server2 that run Windows Server 2016. The Hyper-V hosts are configured to use NVGRE for network virtualization. You have four virtual machines that are connected to an external switch. The virtual machines are configured as shown. To which virtual machine or virtual machines can VM1 and VM3 connect? (To answer, select the appropriate options in the answer area.)

Virtual Machine Name	Hyper-V host	IP address	Netmask	GRE key
VM1	Server1	192.168.1.16	255.255.255.0	16
VM2	Server2	192.168.1.232	255.255.255.0	32
VM3	Server3	192.168.1.32	255.255.255.0	32
VM4	Server4	192.168.1.25	255.255.255.0	25
VM5	Server5	192.168.1.116	255.255.255.0	16
VM6	Server6	192.168.1.132	255.255.255.0	32

Answer Area

VM1 can connect to:
```
VM2 only
VM5 only
VM2, VM3, VM5, and VM6 only
VM2, VM3, VM4, VM5, and VM6
```

VM3 can connect to:
```
VM6 only
VM2, and VM6 only
VM4, VM5, and VM6 only
VM1, VM2, VM5, and VM6 only
VM1, VM2, VM4, VM5, and VM6
```

Answer:

Answer Area

VM1 can connect to:
```
VM2 only
VM5 only
VM2, VM3, VM5, and VM6 only
VM2, VM3, VM4, VM5, and VM6
```

VM3 can connect to:
```
VM6 only
VM2, and VM6 only
VM4, VM5, and VM6 only
VM1, VM2, VM5, and VM6 only
VM1, VM2, VM4, VM5, and VM6
```

Explanation:
The GRE keys must match. To separate the traffic between the two virtualized networks, the GRE headers on the tunneled packets include a GRE Key that provides a unique Virtual Subnet ID for each virtualized network.
https://networkheresy.com/2011/10/03/nvgre-vlxan-and-what-microsoft-is-doing-right/

QUESTION 7
You have a server named Server1 that runs Windows Server 2016. Server1 is a Hyper-V host that hosts a virtual machine named VM1. Server1 has three network adapter cards That connect to a virtual switch named vSwitch1. You configure NIC Teaming on VM1 as shown in the exhibit.

New team

Team name:

Converged NIC Team

Member adapters:

In Team	Adapter	Speed	State	Reason
☐	Ethernet	1 Gbps		
☑	Ethernet 2	1 Gbps		
☑	Ethernet 3	1 Gbps		

∧ Additional properties

Teaming mode:	Switch Independent ▾
Load balancing mode:	Dynamic ▾
Standby adapter:	None (all adapters Active) ▾
Primary team interface:	Converged NIC Team: Default VLAN

OK   Cancel

You need to ensure that VM1 will retain access to the network if a physical adapter card fails on Server1. What should you do?

A. From Hyper-V Manager on Server1, modify the settings of VM1.
B. From Windows PowerShell on Server1, run the Set-VmSwitch cmdlet.
C. From the properties of the NIC team on VM1, add the adapter named Ethernet to the NIC team.
D. From the properties of the NIC team on VM1. change the load balancing of the NIC team.

Answer: A

QUESTION 8
Hotspot Question
You have a machine named VM1 that runs Windows Server 2016 VM1 is a Remote Desktop Services (RDS) server. You need to ensure that only TCP port 3389 can be used to connect to VM1 over the network. Which command should you run on the Hyper-V host? (To answer, select the appropriate options in the answer area.)

| ▾ | -VMName VM1 –Direction | ▾ |

Add-VmNetworkAdapterAcl
Add-VmNetworkAdapterExtendedAcl
Set-VmNetworkAdapter
Set-VmNetworkAdapterRoutingDomain
Mapping

Inbound
Outbound

Answer:

▼	-VMName VM1 –Direction		▼

Add-VmNetworkAdapterAcl
Add-VmNetworkAdapterExtendedAcl
Set-VmNetworkAdapter
Set-VmNetworkAdapterRoutingDomain
Mapping

Inbound
Outbound

QUESTION 9
Hotspot Question
You have a server named Server1 that runs Windows Server 2016 Server1 is a Hyper-V host. You have two network adapter cards on Server1 that are Remote Direct Memory Access (RDMA) - capable. You need to aggregate the bandwidth of the network adapter cards for a virtual machine on Server1. The solution must ensure that the virtual machine can use the RDMA capabilities of the network adapter cards. Which command should you run first? (To answer, select the appropriate options in the answer area.)

▼	-Name Production –NetAdapterName "NIC 1", "NIC 2"	▼	$true

Add-NetLbfoTeamNic
Add-VmNetworkAdapter
New-NetLbfoTeam
Add-VmSwitch

-EnableEmbeddedTeaming
-EnableIov
-EnablePacketDirect

Answer:

▼	-Name Production –NetAdapterName "NIC 1", "NIC 2"	▼	$true

Add-NetLbfoTeamNic
Add-VmNetworkAdapter
New-NetLbfoTeam
Add-VmSwitch

-EnableEmbeddedTeaming
-EnableIov
-EnablePacketDirect

Explanation:
Create a Hyper-V Virtual Switch with SET and RDMA vNICs. To make use of RDMA capabilies on Hyper-V host virtual network adapters (vNICs) on a Hyper-V Virtual Switch that supports RDMA teaming, you can use this example Windows PowerShell script.
#
Create a vmSwitch with SET
#
New-VMSwitch -Name SETswitch -NetAdapterName "SLOT 2","SLOT 3" - EnableEmbeddedTeaming $true
#
Add host vNICs and make them RDMA capable
#
etc.
Note: As New-VmSwitch is not an alternative, we choose the Add-VMSwitch command instead. Thee Add-VmSwitch command does not have -NetAdapter and -EnableEmbeddedTeaming parameters.

QUESTION 10
You have a server named Server1 that runs Windows Server 2016. You need to configure Server1 as a multitenant RAS Gateway. What should you install on Server1?

A. the Network Policy and Access Services server role
B. the Remote Access server role
C. the Data Center Bridging feature
D. the Network Controller server role

Answer: B

QUESTION 11
Drag and Drop Question
You have a physical server named Server1 that runs Windows Server 2016 Server1 is a Hyper-V host. On Server1, you create a virtual machine named VM1 that runs Windows Server 2016. You plan to install the Hyper-V server role on VM1. You need to ensure that you can configure VM1 to host virtual machines. How should you complete the Windows PowerShell script? (To answer, drag the appropriate values to the correct targets. Each value 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.)

Values

| $false |
| $null |
| $true |

```
Set-VMProcessor –VMName VMHOST1 –ExposeVirtualizationExtensions [        ] -Count 2

Set-VMMemory VMHOST1 –DynamicMemoryEnabled [        ]

Get-VMNetworkAdapter –VMName VMHOST1 | Set-VMNetworkAdapter -MacAddressSpoofing on
```
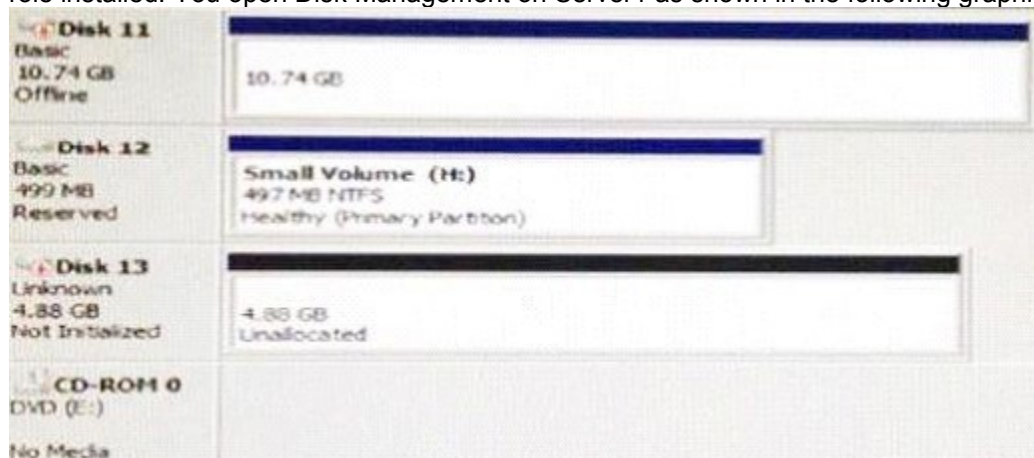
Answer:

Values

| $false |
| $null |
| $true |

```
Set-VMProcessor –VMName VMHOST1 –ExposeVirtualizationExtensions [ $true ] -Count 2

Set-VMMemory VMHOST1 –DynamicMemoryEnabled $false

Get-VMNetworkAdapter –VMName VMHOST1 | Set-VMNetworkAdapter -MacAddressSpoofing on
```

QUESTION 12
Hotspot Question
You have a server named Server1 that runs Windows Server 2016 and has the Hyper-V server role installed. You open Disk Management on Server1 as shown in the following graphic.

Disk 11 Basic 10.74 GB Offline	10.74 GB
Disk 12 Basic 499 MB Reserved	Small Volume (H:) 497 MB NTFS Healthy (Primary Partition)
Disk 13 Unknown 4.88 GB Not Initialized	4.88 GB Unallocated
CD-ROM 0 DVD (E:) No Media	

You plan to configure Disk13 as a pass-through disk for a generation 1 virtual machine. Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

The status of Disk 13 must be set to [answer choice.]

Initializing
Offline
Online

If the virtual machine uses Disk 13 as the system partition, Disk 13 must be attached to [answer choice] in Hyper-V Manager.

a Fibre Channel adapter
an IDE controller
a SCSI controller

Answer:

The status of Disk 13 must be set to [answer choice.]

Initializing
Offline
Online

If the virtual machine uses Disk 13 as the system partition, Disk 13 must be attached to [answer choice] in Hyper-V Manager.

| |
|---|
| a Fibre Channel adapter |
| **an IDE controller** |
| a SCSI controller |

QUESTION 13
Hotspot Question
Your company has a testing environment that contains an Active Directory domain named contoso.com. The domain contains a server named Server1 that runs Windows Server 2016. Server1 has IP Address Management (IPAM) installed IPAM has the following configuration.

Version	:	6.3.0.1
Port	:	4885
ProvisioningMethod	:	Automatic
GpoPrefix	:	IPAM
HMACKey	:	System.Security.SecureString

The IPAM Overview page from Server Manager is shown in the IPAM Overview exhibit.
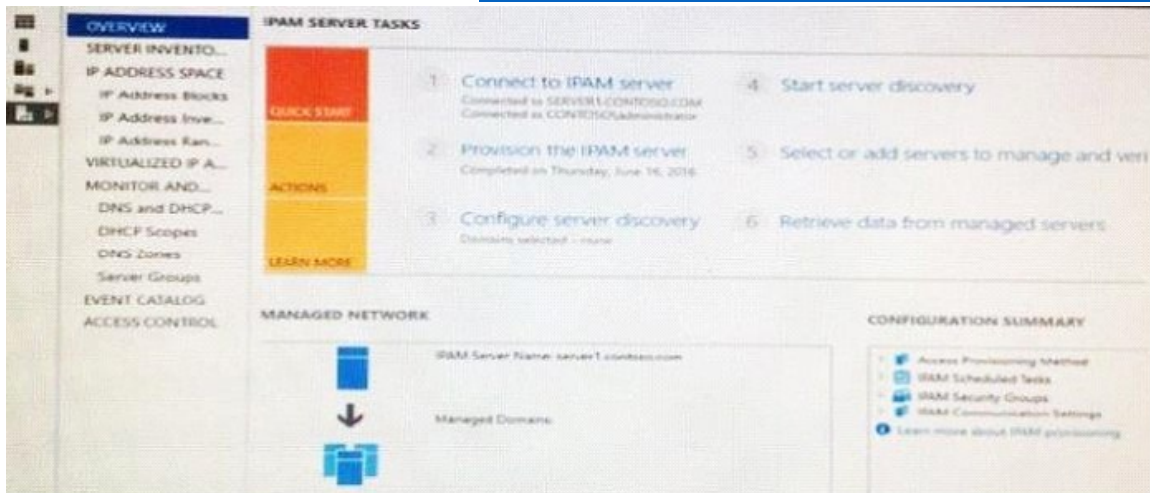
The group policy configurations are shown in the GPO exhibit.

For each of the following statements, select Yes if the statement is true Otherwise, select No

Statements	Yes	No
If a DNS server is added to contoso.com, the server will be discovered by IPAM automatically.	○	○
If you manually add a DHCP server named Server3 to IPAM and set the Manageability status to Managed, the IPAM_DHCP Group Policy will apply to Server3.	○	○
If you click Start server discovery, the domain controllers in contoso.com will be discovered by IPAM.	○	○

Answer:

Statements	Yes	No
If a DNS server is added to contoso.com, the server will be discovered by IPAM automatically.	○	⦿
If you manually add a DHCP server named Server3 to IPAM and set the Manageability status to Managed, the IPAM_DHCP Group Policy will apply to Server3.	⦿	○
If you click Start server discovery, the domain controllers in contoso.com will be discovered by IPAM.	⦿	○

QUESTION 14
You need to modify the GPO prefix by IPAM. What should you do?

A. Run the Set-Ipam Configuration cmdlet
B. Click Provision the IPAM server in Server Manager
C. Click Configure server discovery in Server Manager
D. Run the Invoke-Ipam Gpo Provisioning cmdlet

Answer: A

QUESTION 15
You need to ensure that VM1 and VM2 can communicate with each other only. The solution must prevent VM1 and VM2 from communicating with Server1. Which cmdlet should you use?

A. Set-NetNeighbor
B. Remove-VMSwitchTeamMember
C. Set-VMSwitch
D. Enable-VMSwitchExtension

Answer: C

QUESTION 16
Hotspot Question
Your network contains an Active Directory domain named contoso.com. The domain contains a domain controller named Server1 and a member server named Server2. Server1 has the DNS Server role installed Server2 has IP Address Management IPAM installed. The IPAM server retrieves zones from Server1 as shown in the following table.

Zone name	Dynamic update setting	Access scope
Adatum.com	Secure	\Global
Fabrikam.com	None	\Globe\Scope2

The IPAM server has one access policy configured as shown in the exhibit.
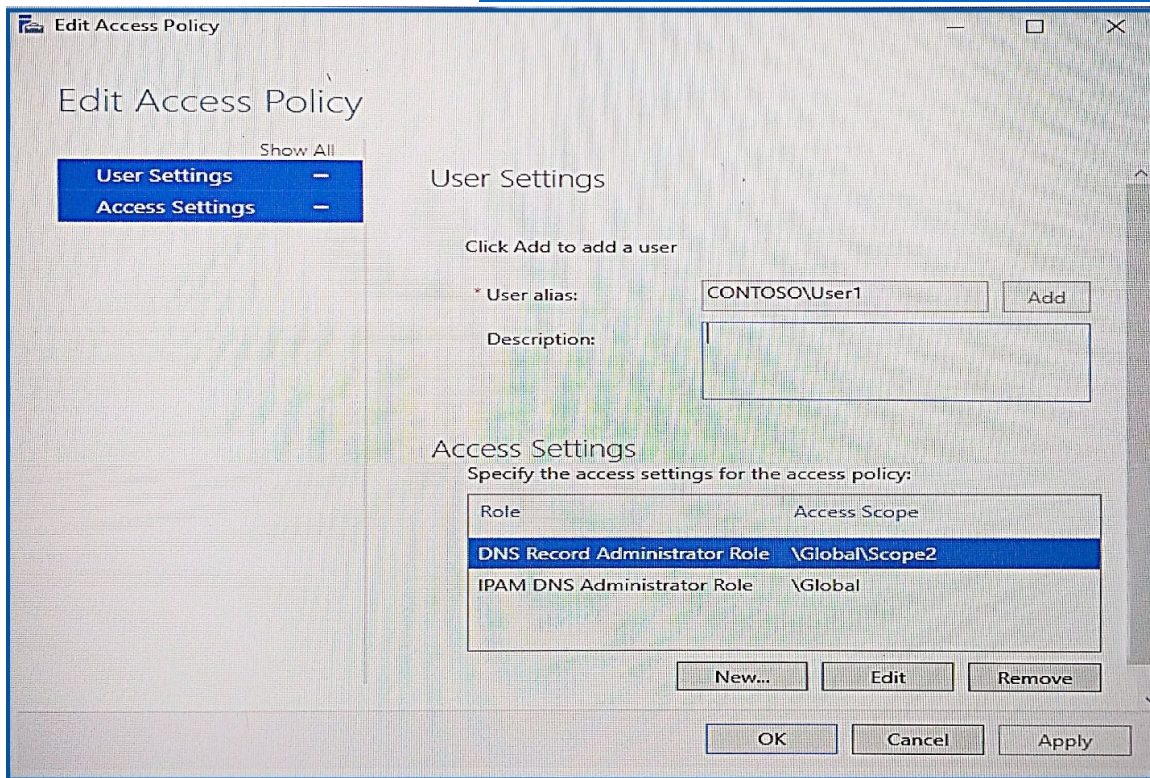
For each of following statements, select Yes, if the statement is true. Otherwise, select No.

Answer Area

Statements	Yes	No
User1 can add a host (A) record to adatum.com	○	○
User1 can add a host (A) record to fabrikam.com	○	○
User1 can delete the fabrikam.com zone.	○	○

Answer:

Answer Area

Statements	Yes	No
User1 can add a host (A) record to adatum.com	○	●
User1 can add a host (A) record to fabrikam.com	●	○
User1 can delete the fabrikam.com zone.	○	●

QUESTION 17

Hotspot Question
You have a Hyper-V host that runs Windows Server 2016. The Hyper-V host has a virtual machine named VM1. You have a VHD named VHD1 vhdx that has a generalized image of Windows Server 2016. You plan to create multiple virtual machines that will use the generalized image. You need to create differencing disks based on VHD1 vhdx. What command should you run? (To answer, select the appropriate options in the answer area.)

▼	-Path "C:\VHDs\VHD1Diff.VHDX"

Add-VMHardDiskDrive
New-VHD
Set-VHD
Set-VMHardDiskDrive

▼	"C:\VHDs\VHD1.VHDX" -Differencing

-ParentPath
-SourceDisk

Answer:

▼	-Path "C:\VHDs\VHD1Diff.VHDX"

Add-VMHardDiskDrive
New-VHD
Set-VHD
Set-VMHardDiskDrive

▼	"C:\VHDs\VHD1.VHDX" -Differencing

-ParentPath
-SourceDisk

QUESTION 18
Hotspot Question
Your network contains an Active Directory domain named contoso.com. The domain contains a member server named Server1 that runs Windows Server 2016. You install IP Address Management (IPAM) on Server1. You select the automatic provisioning method, and then you specify a prefix of IPAM. You need to configure the environment for automatic IPAM provisioning. Which cmdlet should you run? (To answer, select the appropriate options in the answer area.)

▼	-Domain "Contoso.com"	▼	"IPAM1"

Add-IpamDiscoveryDomain
Enable-IpamCapability
Invoke-IpamGpoProvisioning
Set-IpamConfiguration

-AssetTag
-DisciverDns
-GpoPrefixName
-ProvisioningMethod

Answer:

| ∨ | -Domain "Contoso.com" | | ∨ | "IPAM1" |

Add-IpamDiscoveryDomain
Enable-IpamCapability
Invoke-IpamGpoProvisioning
Set-IpamConfiguration

-AssetTag
-DisciverDns
-GpoPrefixName
-ProvisioningMethod

QUESTION 19
Drag and Drop Question
Your network contains an Active Directory domain named contoso.com. The domain contains two servers named Server1 and Server2 that run Windows Server 2016. Server1 has IP Address Management (IPAM) installed. Server2 has Microsoft System Center 2016 Virtual Machine Manager (VMM) installed. You need to integrate IPAM and VMM. Which types of objects should you create on each server? (To answer, drag the appropriate object types to the correct servers Each object 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.)

Objects

Access Policy	Network Service
Run As Account	Service Template
User Role	

Answer Area

Server1: Object

Server2: Object   Object

Answer:

Objects

	Service Template
User Role	

Answer Area

Server1: Access Policy

Server2: Network Service   Run As Account

Explanation:
https://technet.microsoft.com/en-us/library/dn783349(v=ws.11).aspx

QUESTION 20
Hotspot Question
Your network contains an Active Directory domain named contoso.com. The domain contains four servers named Server1, Server2, Server3 and Server4 that run Windows Server 2016. Server1 has IP Address Management (IPAM) installed Server2, Server3, and Server4 have the DHCP Server rote instated IPAM manages Server2, Server3 and Server4. A domain user named User1 is a member of the groups shown in the following table.

Server name	Group
Server1	IPAM Users
Server2	DHCP Administrators
Server3	DHCP Users
Server4	Users

Which actions can User1 perform? (To answer, select the appropriate options in the answer area.)

Actions	Yes	No
Use the DHCP console on Server1 to create a DHCP scope on Server2.	○	○
Use the DHCP console on Server1 to create a DHCP scope on Server3.	○	○
Use the IPAM node of Server Manager on Server1 to create a DHCP scope on Server4.	○	○

Answer:

Actions	Yes	No
Use the DHCP console on Server1 to create a DHCP scope on Server2.	⊙	○
Use the DHCP console on Server1 to create a DHCP scope on Server3.	○	⊙
Use the IPAM node of Server Manager on Server1 to create a DHCP scope on Server4.	○	⊙

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