70-414^{Q&As}

Implementing an Advanced Server Infrastructure

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QUESTION 1

You need to recommend a solution to maintain a copy of App2. The solution must meet the application requirements and must minimize additional hardware purchases. What should you include in the recommendation?

A. Single-site Failover Clustering

B. Hyper-V replicas

C. Multi-site Failover Clustering

D. Distributed File System (DFS) Replication

Correct Answer: B

Explanation/Reference:

Overview	Existing Environment Network Infrastructure	Current Issues	Application Requirement:

The company is developing an application named Appl. App1 is a multi-tier application that will be sold as a service to customers.
Each instance of App1 is comprised of the following three tiers:
- A web front end
- A middle tier that uses Windows Communication Foundation (WCF)
- A Microsoft SQL Server 2008 R2 database on the back end Each tier will be hosted on one or more virtual machines. Multiple-tiers cannot coexist on the same virtual machine.

When customers purchase App1, they can select from one of the following service levels.
- Standard: Uses a single instance of each virtual machine required by Appl. If a virtual machine becomes unresponsive, the virtual machine must be restarted.
- Enterprise: Uses multiple instances of each virtual machine required by App1 to provide high-availability and fault tolerance.

All virtual hard disk (VHD) files for App1 will be stored in a file share. The VHDs must be available if a server fails.

You plan to deploy an application named App2. App2 is comprised of the following two tiers:
- A web front end
- A dedicated SQL Server 2008 R2 database on the back end App2 will be hosted on a set of virtual machines in a Hyper-V cluster in the Miami office. The virtual machines will use dynamic IP addresses. A copy of the App2 virtual machines will be maintained in the Seattle office.

App2 will be used by users from a partner company named Trey Research. Trey Research has a single Active Directory domain named treyresearch.com. Treyresearch.com contains a server that has the Active Directory Federation Services server role and all of the Active Directory Federation Services (AD FS) role services installed.

Role/Feature description

Hyper-V Replica provides asynchronous replication of Hyper-V virtual machines between two hosting servers. It is simple to configure and does not require either shared storage or any particular storage hardware. Any server workload that can be virtualized in Hyper-V can be replicated. Replication works over any ordinary IP-based network, and the replicated data can be encrypted during transmission. Hyper-V Replica works with standalone servers, failover clusters, or a mixture of both. The servers can be physically co-located or widely separated geographically. The physical servers do not need to be in the same domain, or even joined to any domain at all.

http://technet.microsoft.com/en-us/library/jj134172.aspx

QUESTION 2

You plan to allow users to run internal applications from outside the company\\'s network. You have a Windows Server 2012 R2 that has the Active Directory Federation Services (AD FS) role installed. You must secure on-premises resources by using multi-factor authentication (MFA). You need to design a solution to enforce different access levels for users with personal Windows 8.1 or iOS 8 devices.

Solution: You migrate the AD FS server to Microsoft Azure and connect it to the internal Active Directory instance on the network. Then, you use the Workplace Join process to configure access for personal devices to the on-premises resources.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

QUESTION 3

Your network contains an Active Directory domain named contoso.com. The domain contains a server named Server1 that runs Windows Server 2012 R2. Server1 has the Hyper-V server role installed. The domain contains a virtual machine

named VM1. A developer wants to attach a debugger to VM1.

You need to ensure that the developer can connect to VM1 by using a named pipe.

Which virtual machine setting should you configure?

A. BIOS

B. Network Adapter

C. COM 1

D. Processor

Correct Answer: C

Named pipes can be used to connect to a virtual machine by configuring COM 1.

References:http://support.microsoft.com/kb/819036 http://support.microsoft.com/kb/141709

QUESTION 4

You have a server named Host1 that runs Windows Server 2012 and has the Hyper-V server role installed.

Host1 has one physical network adapter. You plan to deploy 15 virtual machines on Host1.

You need to implement a networking solution that ensures that all of the virtual machines use PXE to boot when they connect to Windows Deployment Server (WDS).

What should you do?

A. Install legacy network adapters for each virtual machine.

B. Modify the settings of the virtual switch.

C. Modify the settings of the network adapter for each virtual machine.

D. Install a second physical network adapter.

Correct Answer: A

Since Windows Server 2012 R2 (WS2012 R2) Hyper-V and Windows 8.1 Client Hyper-V, there are two generations of virtual machine hardware specification. Generation 1 virtual machines (the only generation on legacy versions of Hyper-V) make things a little tricky when it comes to PXE booting. The default (and better performing) synthetic Network Adapter (that leverages the Hyper-V integration components) does not support booting off of the network in Generation 1 virtual machines. If you do want to boot this type of virtual hardware using PXE then you must add an emulated Legacy Network Adapter.

References: https://www.petri.com/boot-hyper-v-virtual-machine-using-pxe

QUESTION 5

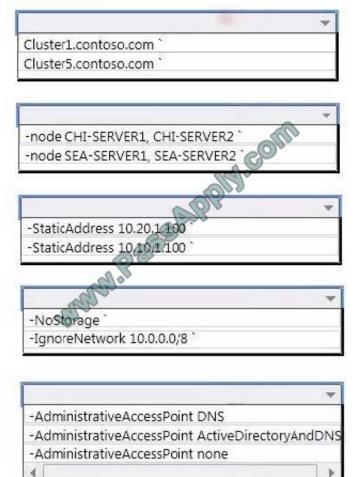You need to deploy the new SQL cluster for App2.

How should you complete the relevant Windows PowerShell command? To answer, select the appropriate Windows PowerShell segment from each list in the answer area.

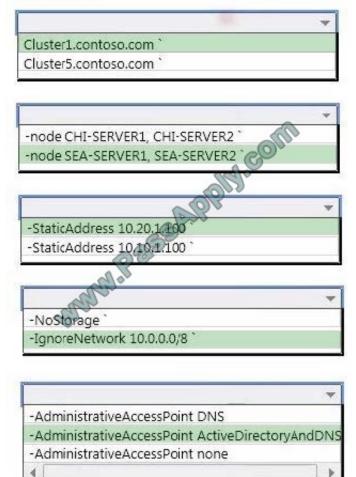Hot Area:

Answer Area

New-cluster `

Cluster1.contoso.com `
Cluster5.contoso.com `

-node CHI-SERVER1, CHI-SERVER2 `
-node SEA-SERVER1, SEA-SERVER2 `

-StaticAddress 10.20.1.100 `
-StaticAddress 10.10.1.100 `

-NoStorage `
-IgnoreNetwork 10.0.0.0/8 `

-AdministrativeAccessPoint DNS
-AdministrativeAccessPoint ActiveDirectoryAndDNS
-AdministrativeAccessPoint none

Correct Answer:

Answer Area

New-cluster `

Cluster1.contoso.com `
Cluster5.contoso.com `

-node CHI-SERVER1, CHI-SERVER2 `
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