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Exam : **70-414**

Title : Implementing an Advanced
Server Infrastructure

Vendor : Microsoft

Version : DEMO

NO.1 You need to recommend a configuration for the CA extensions of Northwind Traders that meets the certificate revocation requirement of Customer1.
What should you recommend? To answer, select the appropriate prefix of the target location for the each extension settings in the answer area.

Answer Area

Publish CRLs to this location:

Include in the CDP extension of issued certificates:

Answer Area

Publish CRLs to this location:

file://
http://
https://

Include in the CDP extension of issued certificates:

file://
http://
https://

Answer:

Answer Area

Publish CRLs to this location:

file://
http://
https://

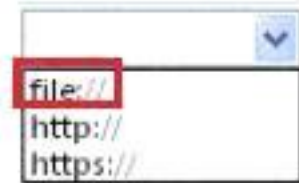
Include in the CDP extension of issued certificates:

file://
http://
https://

Explanation

Answer Area

Publish CRLs to this location:



file://
http://
https://

Include in the CDP extension of issued certificates:



file://
http://
https://

NO.2 You have a Windows Server 2012 R2 failover cluster that contains four nodes. The cluster has Dynamic Optimization enabled. You deploy three highly available virtual machines to the cluster by using System Center 2012 R2 Virtual Machine Manager (VMM).

You need to prevent Dynamic Optimization from placing any of the three virtual machines in the same node.

What should you do?

- A.** From the Virtual Machine Manager console, modify the Servicing Windows settings of the virtual machines.
- B.** From the Virtual Machine Manager console, modify the Compatibility settings in the Hardware Configuration properties of the virtual machines.
- C.** Set the Priority property of the virtual machine cluster role.
- D.** From the Virtual Machine Manager console, modify the Availability settings in the Hardware Configuration properties of the virtual machines.

Answer: C

NO.3 Your company, which is named Contoso, Ltd., has offices only in North America. The company has 2,000 users. The network contains an Active Directory domain named contoso.com.

You plan to deploy an Active Directory Certificate Services (AD CS) infrastructure and assign certificates to all client computers.

You need to recommend a PKI solution to protect the private key of the root certification authority (CA) from being accessed by external users.

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

- A.** An online enterprise root CA and an online enterprise issuing CA
- B.** An offline standalone root CA and an online enterprise issuing CA
- C.** An offline standalone root CA and an offline enterprise issuing CA
- D.** An online enterprise root CA, an online enterprise policy CA, and an online enterprise issuing CA

Answer: B

Reference: [http://technet.microsoft.com/en-us/library/cc737481\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc737481(v=ws.10).aspx)

NO.4 You administer an Active Directory Domain Services forest that includes an Active Directory

Federation Services (AD FS) server and Azure Active Directory. The fully qualified domain name of the AD FS server is adfs.contoso.com.

You must implement single sign-on (SSO) for a cloud application that is hosted in Azure. All domain users must be able to use SSO to access the application.

You need to configure SSO for the application.

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

- A.** Create a trust between AD FS and Azure Active Directory.
- B.** In the Azure management portal, activate directory synchronization.
- C.** Use the AD FS Configuration wizard to specify the domain and administrator for the Azure Active Directory service.
- D.** Use the Azure Active Directory Synchronization tool to configure user synchronization.

Answer: C,D

NO.5 Your network contains a Hyper-V host named Host1. Host1 hosts 25 virtual machines.

All of the virtual machines are configured to start automatically when Host1 restarts.

You discover that some of the virtual machines fail to start automatically when Host1 restarts and require an administrator to start them manually.

You need to modify the settings of the virtual machines to ensure that they automatically restart when Host1 restarts.

Which settings should you modify?

- A.** Startup RAM
- B.** Minimum RAM
- C.** Memory weight
- D.** Maximum RAM

Answer: A

NO.6 You need to ensure that RESEARCH1 only contains the required virtual machines.

What should you do?

- A.** Create an availability set.
- B.** Set RESEARCH1 as a preferred owner.
- C.** Create a custom placement rule.
- D.** Set RESEARCH1 as a possible owner.

Answer: C

NO.7 Your network contains an Active Directory domain named contoso.com.

You plan to deploy an Active Directory Federation Services (AD FS) farm that will contain eight federation servers.

You need to identify which technology or technologies must be deployed on the network before you install the federation servers.

Which technology or technologies should you identify? (Each correct answer presents part of the solution.

Choose all that apply.)

- A.** The Windows Internal Database feature
- B.** Microsoft SQL Server 2012

- C. Network Load Balancing (NLB)
- D. The Windows Identity Foundation 3.5 feature
- E. Microsoft Forefront Identity Manager (FIM) 2010

Answer: B,C

Explanation

Best practices for deploying a federation server farm. We recommend the following best practices for deploying a federation server in a production environment:

- * (A) Use NLB or some other form of clustering to allocate a single IP address for many federation server computers.
- * (D) If the AD FS configuration database will be stored in an SQL database, avoid editing the SQL database from multiple federation servers at the same time.
- * If you will be deploying multiple federation servers at the same time or you know that you will be adding more servers to the farm over time, consider creating a server image of an existing federation server in the farm and then installing from that image when you need to create additional federation servers quickly.
- * Reserve a static IP address for each federation server in the farm and, depending on your Domain Name System (DNS) configuration, insert an exclusion for each IP address in Dynamic Host Configuration Protocol (DHCP). Microsoft NLB technology requires that each server that participates in the NLB cluster be assigned a static IP address.

Reference: When to Create a Federation Server Farm

NO.8 Your network contains an Active Directory forest named contoso.com. All servers run Windows Server 2012 R2. The forest contains two servers.

The servers are configured as shown in the following table.

Server name	Role
Server1	Active Directory Federation Services (AD FS)
Server2	Web application proxy

You prepare the forest to support Workplace Join and you enable the Device Registration Service (DRS) on Server1.

You need to ensure that Workplace Join meets the following requirements:

- * Application access must be based on device claims.
- * Users who attempt to join their device to the workplace through Server2 must be prevented from locking out their Active Directory account due to invalid credentials.

Which cmdlet should you run to achieve each requirement? To answer, select the cmdlet for each requirement in the answer area.

Answer Area

Application access must be based on device claims:

Users who attempt to join their device to the workplace through Server2 must be prevented from locking out their Active Directory account due to invalid credentials:

Answer Area

Application access must be based on device claims:

A screenshot of a PowerShell command list. The first command, 'Set-AdfsClaimsProviderTrust', is highlighted with a blue selection bar. The other commands are 'Set-AdfsGlobalAuthenticationPolicy', 'Set-AdfsProperties', and 'Set-AdfsRelyingPartyTrust'.

Users who attempt to join their device to the workplace through Server2 must be prevented from locking out their Active Directory account due to invalid credentials:

A screenshot of a PowerShell command list. The first command, 'Set-AdfsClaimsProviderTrust', is highlighted with a blue selection bar. The other commands are 'Set-AdfsGlobalAuthenticationPolicy', 'Set-AdfsProperties', and 'Set-AdfsRelyingPartyTrust'.

Answer:

Answer Area

Application access must be based on device claims:

A screenshot of a PowerShell command list. The first command, 'Set-AdfsClaimsProviderTrust', is highlighted with a blue selection bar. The other commands are 'Set-AdfsGlobalAuthenticationPolicy', 'Set-AdfsProperties', and 'Set-AdfsRelyingPartyTrust'.

Users who attempt to join their device to the workplace through Server2 must be prevented from locking out their Active Directory account due to invalid credentials:

A screenshot of a PowerShell command list. The first command, 'Set-AdfsClaimsProviderTrust', is highlighted with a blue selection bar. The other commands are 'Set-AdfsGlobalAuthenticationPolicy', 'Set-AdfsProperties', and 'Set-AdfsRelyingPartyTrust'.

Explanation

Answer Area

Application access must be based on device claims:

A screenshot of a PowerShell command list. The second command, 'Set-AdfsGlobalAuthenticationPolicy', is highlighted with a red selection bar. The other commands are 'Set-AdfsClaimsProviderTrust', 'Set-AdfsProperties', and 'Set-AdfsRelyingPartyTrust'.

Users who attempt to join their device to the workplace through Server2 must be prevented from locking out their Active Directory account due to invalid credentials:

A screenshot of a PowerShell command list. The third command, 'Set-AdfsProperties', is highlighted with a red selection bar. The other commands are 'Set-AdfsClaimsProviderTrust', 'Set-AdfsGlobalAuthenticationPolicy', and 'Set-AdfsRelyingPartyTrust'.

NO.9 Your network contains an Active Directory domain named adatum.com. All servers run Windows Server 2012.

The network contains a Fibre Channel Storage Area Network (SAN) named SAN1.

You have two failover clusters. The failover clusters are configured as shown in the following table.

Failover cluster name	Role	Members
Cluster1	File Services	Two nodes
Cluster2	Hyper-V hosting	Six nodes

Only the members of Cluster2 can connect to SAN1.

You plan to implement 20 highly available virtual machines on Cluster1. All of the virtual machines must be stored in a single shared folder.

You need to ensure that the VHD files of the virtual machines can be stored on SAN1. VHD files must be available from any node in Cluster2.

What two actions should you take on Cluster2? Each correct answer presents a complete solution.

- A. Add the Storage Services role service.
- B. Configure the clustered File Server role of the Scale-Out File Server for application data.
- C. Add the iSCSI Target Server cluster role.
- D. Configure the clustered File Server role of the File Server for general use.

Answer: A,B

NO.10 You need to configure Active Directory Rights Management Services (AD RMS).

What should you do? To answer, drag the appropriate domain or option to the correct location.

Each domain or option 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.

Domains and Domain Options	Answer Area							
fabrikam.com	<table border="1"> <thead> <tr> <th>Action</th> <th>Domain</th> </tr> </thead> <tbody> <tr> <td>Deploy an AD RMS cluster to:</td> <td>Domain or Domain Option</td> </tr> <tr> <td>Configure <input type="text" value="Domain or Domain Option"/> as a</td> <td rowspan="2">Domain or Domain Option</td> </tr> <tr> <td><input type="text" value="Domain or Domain Option"/> for the domain:</td> </tr> </tbody> </table>	Action	Domain	Deploy an AD RMS cluster to:	Domain or Domain Option	Configure <input type="text" value="Domain or Domain Option"/> as a	Domain or Domain Option	<input type="text" value="Domain or Domain Option"/> for the domain:
Action		Domain						
Deploy an AD RMS cluster to:		Domain or Domain Option						
Configure <input type="text" value="Domain or Domain Option"/> as a		Domain or Domain Option						
<input type="text" value="Domain or Domain Option"/> for the domain:								
trusted publishing domain								
contoso.com								
trusted user domain								

Answer:

Domains and Domain Options	Answer Area							
fabrikam.com	<table border="1"> <thead> <tr> <th>Action</th> <th>Domain</th> </tr> </thead> <tbody> <tr> <td>Deploy an AD RMS cluster to:</td> <td>contoso.com</td> </tr> <tr> <td>Configure <input type="text" value="fabrikam.com"/> as a</td> <td rowspan="2">fabrikam.com</td> </tr> <tr> <td><input type="text" value="trusted publishing domain"/> for the domain:</td> </tr> </tbody> </table>	Action	Domain	Deploy an AD RMS cluster to:	contoso.com	Configure <input type="text" value="fabrikam.com"/> as a	fabrikam.com	<input type="text" value="trusted publishing domain"/> for the domain:
Action		Domain						
Deploy an AD RMS cluster to:		contoso.com						
Configure <input type="text" value="fabrikam.com"/> as a		fabrikam.com						
<input type="text" value="trusted publishing domain"/> for the domain:								
trusted publishing domain								
contoso.com								
trusted user domain								

Explanation

Answer Area

Action	Domain
Deploy an AD RMS cluster to:	contoso.com
Configure <input type="text" value="fabrikam.com"/> as a <input type="text" value="trusted publishing domain"/> for the domain:	<input type="text" value="fabrikam.com"/>

NO.11 Your network contains two servers named Server1 and Server2 that run Windows Server 2012. Server1 and Server2 are connected to a Fibre Channel Storage Area Network (SAN). Server1 and Server2 are members of a failover cluster named Cluster1.

You plan to host the clustered File Server role on the nodes in Cluster1. Cluster1 will store application databases in shared folders. You need to implement a storage solution for Cluster1. The solution must minimize the amount of time the shared folders are unavailable during a failover.

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

- A. A Cluster Shared Volume (CSV) in Cluster1
- B. The Multi Path I/O (MPIO) feature on Server1 and Server2
- C. An iSCSI Target Server cluster role in Cluster1
- D. A Virtual Fibre Channel SAN on Server1 and Server2

Answer: A

Explanation

Explanation:

Use Cluster Shared Volumes in a Windows Server 2012 Failover Cluster

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Published: August 29, 2012

Updated: August 29, 2012

Applies To: Windows Server 2012

Cluster Shared Volumes (CSVs) in a Windows Server 2012 failover cluster allow multiple nodes in the cluster to simultaneously have read-write access to the same LUN (disk) that is provisioned as an NTFS volume. With CSVs, clustered roles can fail over quickly from one node to another node without requiring a change in drive ownership, or dismounting and remounting a volume. CSVs also help simplify managing a potentially large number of LUNs in a failover cluster.

CSVs provide a general-purpose, clustered file system in Windows Server 2012, which is layered above NTFS. They are not restricted to specific clustered workloads. (In Windows Server 2008 R2, CSVs only supported the Hyper-V workload.) CSV applications include:

- Clustered virtual hard disk (VHD) files for clustered Hyper-V virtual machines
- Scale-out file shares to store application data for the Scale-Out File Server role. Examples of the application data for this role include Hyper-V virtual machine files and **Microsoft SQL Server data**. For more information about Scale-Out File Server, see [Scale-Out File Server for Application Data Overview](#).

t8 q120

Reference: <http://technet.microsoft.com/en-us/library/jj612868.aspx>

NO.12 Your network contains a server named Server1 that runs Windows Server 2012. Server1 is configured as a Hyper-V host. Server1 hosts a virtual machine named VM1. VM1 is configured as a file server that runs Windows Server 2012. VM1 connects to a shared storage device by using the iSCSI Initiator.

You need to back up the files and the folders in the shared storage used by VM1. The solution must ensure that open files are included in the backup.

What should you do?

- A.** From Microsoft System Center 2012 Virtual Machine Manager (VMM), create a copy of VM1.
- B.** From Hyper-V Manager, create a snapshot of VM1.
- C.** From VM1, perform a backup by using Windows Server Backup.
- D.** From Server1, perform a backup by using Windows Server Backup.

Answer: C

Explanation

Explanation:

Backing Up Hyper-V Virtual Machines Using Windows Server Backup

Caption: After doing a backup using Windows Server Backup – I can now restore a specific virtual machine ... I am showing the backup contains the ID's of all the VM's for the Hyper-V "application" ... (see the post by Rob Hefner linked to below to enable Hyper-V in WSB)

t8 q107

Reference:

<http://blogs.msdn.com/b/taylorb/archive/2008/08/20/backing-up-hyper-v-virtual-machines-usingwindowsserver->

NO.13 Your network contains five servers that run Windows Server 2012 R2.

You install the Hyper-V server role on the servers. You create an external virtual network switch on each server.

You plan to deploy five virtual machines to each Hyper-V server. Each virtual machine will have a virtual network adapter that is connected to the external virtual network switch and that has a VLAN identifier of 1.

Each virtual machine will run Windows Server 2012 R2. All of the virtual machines will run the identical web application.

You plan to install the Network Load Balancing (NLB) feature on each virtual machine and join each virtual machine to an NLB cluster. The cluster will be configured to use unicast only.

You need to ensure that the NLB feature can distribute connections across all of the virtual machines.

Solution: On each Hyper-V server, you create a new external virtual network switch. From the properties of each virtual machine, you add a second virtual network adapter and connect the new virtual network adapters to the new external virtual network switches.

Does this meet the goal?

- A.** Yes
- B.** No

Answer: B

NO.14 Your network contains an Active Directory domain named contoso.com.

Your company has an enterprise root certification authority (CA) named CA1.

You plan to deploy Active Directory Federation Services (AD FS) to a server named Server1.

The company purchases a Microsoft Office 365 subscription.

You plan to register the company's SMTP domain for Office 365 and to configure single sign-on for all users.

You need to identify which certificate or certificates are required for the planned deployment.

Which certificate or certificates should you identify? (Each correct answer presents a complete solution.

Choose all that apply.)

- A.** a server authentication certificate that is issued by CA1 and that contains the subject name server1.contoso.com
- B.** a server authentication certificate that is issued by a trusted third-party root CA and that contains the subject name Server1
- C.** a server authentication certificate that is issued by a trusted third-party root CA and that contains the subject name server1.contoso.com
- D.** a server authentication certificate that is issued by CA1 and that contains the subject name Server1
- E.** self-signed server authentication certificates for server1.contoso.com

Answer: A,E

NO.15 Your network contains an Active Directory domain named contoso.com. The network has an Active Directory Certificate Services (AD CS) infrastructure.

You need to issue a certificate to users to meet the following requirements:

- * Ensure that the users can encrypt files by using Encrypting File System (EFS).
- * Ensure that all of the users reenroll for their certificate every six months.

Solution: You create a copy of the User certificate template, and then you modify the extensions of the copy.

Does this meet the goal?

- A.** No
- B.** Yes

Answer: A