



**Vendor:** Microsoft

**Exam Code:** 70-414

**Exam Name:** Implementing an Advanced Server  
Infrastructure Exam

**Version:** DEMO

**Added 4 Case Study Questions and Many New R2 Questions**

**Case Study 1: Contoso Ltd (QUESTION 49 - QUESTION 60)**

**Case Study 2: A. Datum (QUESTION 72 - QUESTION 84)**

**Case Study 3: Proseware Inc (QUESTION 95 - QUESTION 103)**

**Case Study 4: Northwind Traders (QUESTION 104 - QUESTION 114)**

**Overview**

Northwind Traders is an IT services and hosting provider.

Northwind Traders has two main data centers in North America. The data centers are located in the same city. The data centers connect to each other by using high-bandwidth, low-latency WAN links. Each data center connects directly to the Internet. Northwind Traders also has a remote office in Asia that connects to both of the North American data centers by using a WAN link. The Asian office has 30 multipurpose servers.

Each North American data center contains two separate network segments. One network segment is used to host the internal servers of Northwind Traders. The other network segment is used for the hosted customer environments.

**Existing Environment**

**Active Directory**

The network contains an Active Directory forest named northwindtraders.com. The forest contains a single domain. All servers run Windows Server 2012 R2.

**Server Environment**

The network has the following technologies deployed:

- Service Provider Foundation
- Windows Azure Pack for Windows Server
- System Center 2012 R2 Virtual Machine Manager (VMM)
- An Active Directory Rights Management Services (AD RMS) cluster
- An Active Directory Certificate Services (AD CS) enterprise certification authority (CA)

All newly deployed servers will include the following components:

- Dual 10-GbE Remote Direct Memory Access (RDMA)-capable network adapters
- Dual 1-GbE network adapters
- 128 GB of RAM

**Requirements**

**Business Goals**

Northwind Traders will provide hosting services to two customers named Customer1 and Customer2. The network of each customer is configured as shown in the following table.

Infrastructure component	Customer1	Customer2
System Center 2012 R2 Virtual Machine Manager (VMM)	Yes	No
System Center 2012 R2 App Controller	Yes	No
Active Directory Certificate Services (AD CS)	No	No
Active Directory Rights Management Services (AD RMS)	Yes	Yes

### Planned Changes

Northwind Traders plans to implement the following changes:

- Deploy System Center 2012 R2 Operations Manager.
- Deploy Windows Server 2012 R2 iSCSI and SMB-based storage.
- Implement Hyper-V Recovery Manager to protect virtual machines.
- Deploy a certificate revocation list (CRL) distribution point (CDP) on the internal network.
- For Customer 1, install server authentication certificates issued by the CA of Northwind Traders on the virtual machine in the hosting networks.

### QUESTION 1

Your network contains an Active Directory domain named contoso.com. All servers run Windows Server 2012 R2. The network contains a System Center 2012 R2 Data Protection Manager (DPM) deployment.

The domain contains six servers. The servers are configured as shown in the following table.

Server name	Role	Node in cluster
Server1	Domain controller	<i>Not applicable</i>
Server2	Domain controller	<i>Not applicable</i>
Server3	Microsoft SQL Server	Cluster1
Server4	Microsoft SQL Server	Cluster1
Server5	<i>Not applicable</i>	Cluster2
Server6	<i>Not applicable</i>	Cluster2

You install System Center 2012 R2 Virtual Machine Manager (VMM) on the nodes in Cluster2. You configure VMM to use a database in Cluster1. Server5 is the first node in the cluster.

You need to back up the VMM encryption key.

What should you back up?

- A. A full system backup of Server1
- B. A full system backup of Server3
- C. A backup of the Windows\DigitalLocker folder on Server5
- D. A backup of the Windows\DigitalLocker folder on Server1

**Answer: A**

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

**Answer: A**

### QUESTION 3

Your Active Directory currently contains five virtualized domain controllers that run Windows Server 2012 R2.

The system state of each domain controller is backed up daily. The backups are shipped to a remote location weekly.

Your company recently implemented a disaster recovery site that contains several servers. The servers run Windows Server 2012 R2 and have the Hyper-V server role installed. The disaster recovery site has a high-speed WAN link to the main office.

You need to create an Active Directory recovery plan that meets the following requirements:

- Restores the Active Directory if a catastrophe prevents all access to the main office.
- Minimizes data loss.

What should you include in the plan?

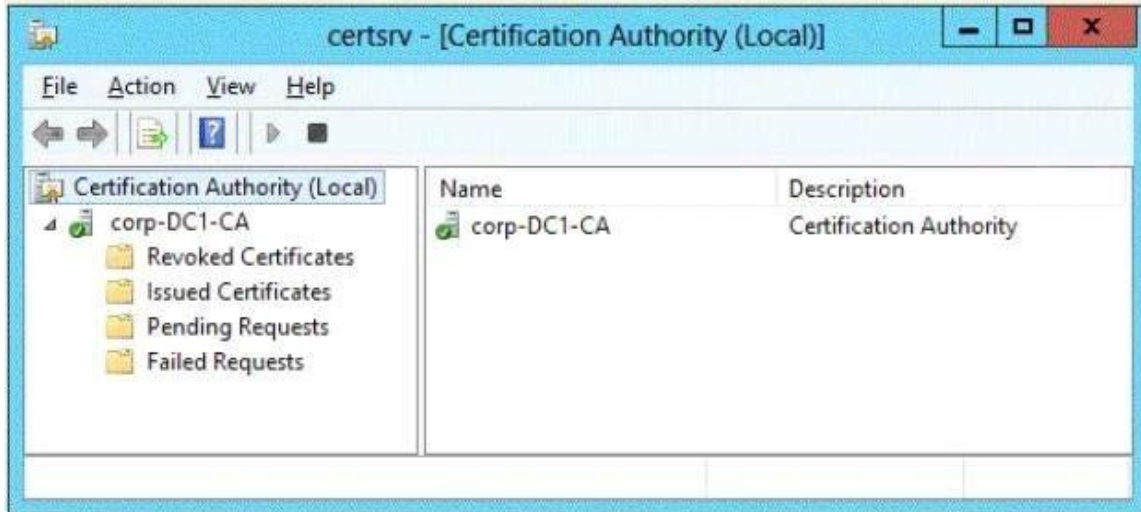
- A. Hyper-V replicas
- B. Live migration
- C. Virtual machine checkpoints
- D. System state restores

**Answer: A**

### QUESTION 4

Your network contains an Active Directory domain named contoso.com. The network contains two servers named Server1 and Server2.

You deploy Active Directory Certificate Services (AD CS). The certification authority (CA) is configured as shown in the exhibit. (Click the Exhibit button.)



You need to ensure that you can issue certificates based on certificate templates. What should you do?

- A. On Server1, install the Network Device Enrollment Service role service.
- B. Configure Server1 as a standalone root CA.
- C. Configure Server2 as an Enterprise CA
- D. On Server1, run the Add-CertificateEnrollmentPolicyServer cmdlet.

**Answer: C**

**Explanation:**

In a typical CA infrastructure the Stand-alone CAs are primarily intended to be used as Trusted Offline RootCAs in a CA hierarchy or when extranets and the Internet are involved. In a stand-alone CA Certificate templates are not used. An enterprise CA uses certificate types, which are based on a certificate template

#### QUESTION 5

Your company has three offices. The offices are located in Seattle, London, and Tokyo. The network contains an Active Directory domain named northwindtraders.com. Each office is configured as an Active Directory site.

System Center 2012 R2 Operations Manager is deployed to the domain. The servers in all three sites are monitored by using Operations Manager.

The company has a web site for its customers. The web site requires users to sign-in.

You need to recommend a solution to monitor the web site.

The solution must meet the following requirements:

- Monitor the availability of the web site from locations in North America, Europe, Asia, and Australia.
- Monitor multi-step requests to the web site.
- Use a central console for monitoring.

What should you include in the recommendation?

- A. Import the System Center Global Services Monitoring Management Pack and add the Web Application Availability Monitoring monitoring type.
- B. Add the Web Application Transaction monitoring type and configure watcher nodes.
- C. Add the TCP Port monitoring type and configure watcher nodes.

- D. Import the System Center Global Services Monitor Management Pack and add the Visual Studio Web Test Monitoring monitoring type.

**Answer: D**

#### QUESTION 6

You have a System Center 2012 R2 Configuration Manager deployment.

All users have client computers that run Windows 8.1. The users log on to their client computer as standard users.

An application named App1 is deployed to the client computers by using System Center. You need to recommend a solution to validate a registry key used by App1. If the registry key has an incorrect value, the value must be changed. The registry key must be validated every day. The solution must generate a report on non-compliant computers.

What is the best approach to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Group Policy preferences
- B. A desired configuration baseline
- C. The Windows PowerShell Desired State Configuration (DSC) feature
- D. The Microsoft Baseline Security Analyzer (MBSA)

**Answer: B**

#### QUESTION 7

Your network contains an Active Directory domain named contoso.com. The domain contains 200 servers that run either Windows Server 2012 R2, Windows Server 2012, or Windows Server 2008 R2. The servers run the following enterprise applications:

- Microsoft Exchange Server 2013
- Microsoft SQL Server 2014

System Center 2012 R2 Operations Manager is deployed to the domain.

Operations Manager monitors all of the servers in the domain. Audit Collection Services (ACS) is installed.

You need to recommend a monitoring strategy for the domain that meets the following requirements:

- A group of administrators must be notified when an error is written to the System log on the servers that run Exchange Server 2013.
- A group of administrators must be notified when a specific event is written to The Application log on the servers that run SQL Server 2014.

What is the best approach to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.

- A. From Operations Manager, enable audit collection.
- B. From Operations Manager, implement two monitors.
- C. From Computer Management, implement one event subscription.
- D. From Operations Manager, implement two rules.

**Answer: D**

### QUESTION 8

Your network contains an Active Directory domain named contoso.com. The domain contains two domain controllers named DC1 and DC2. The domain contains a server named Server1.

Server1 is a certification authority (CA). All servers run Windows Server 2012 R2.

You plan to deploy BitLocker Drive Encryption (BitLocker) to all client computers. The unique identifier for your organization is set to Contoso. You need to ensure that you can recover the BitLocker encrypted data by using a BitLocker data recovery agent. You must be able to perform the recovery from any administrative computer.

Which four 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
Request the new certificate and export the certificate as a .pfx file.	
Deploy the data recovery agent by using a Group Policy object (GPO).	
Install BitLocker on Server1.	
Copy the Basic EFS certificate template, modify the new template, and then publish the new template.	
Request the new certificate and export the certificate as a .cer file.	
Install BitLocker on a domain controller.	

**Answer:**

Actions	Answer Area
Request the new certificate and export the certificate as a .pfx file.	Install BitLocker on a domain controller.
	Copy the Basic EFS certificate template, modify the new template, and then publish the new template.
Install BitLocker on Server1.	Request the new certificate and export the certificate as a .cer file.
	Deploy the data recovery agent by using a Group Policy object (GPO).

### QUESTION 9

You are planning to set up a proof-of-concept network virtualization environment. The environment will contain three servers. The servers will be configured as shown in the following table.

Server name	Role
Server1	System Center 2012 R2 Virtual Machine Manager (VMM)
Server2	Hyper-V host
Server3	File server

You need to enable network connectivity between the virtual machines and Server3. Which four 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
Add an infrastructure server.	
Deploy Microsoft Forefront Unified Access Gateway (UAG).	
Add an additional Hyper-V host.	
Configure ISATAP transition technology.	
Deploy Windows Server Gateway.	
Configure Teredo transition technology.	
Add a network service.	
Enable network address translation (NAT).	

**Answer:**

Actions	Answer Area
Add an infrastructure server.	Add an additional Hyper-V host.
Deploy Microsoft Forefront Unified Access Gateway (UAG).	Add a network service.
Configure ISATAP transition technology.	Deploy Windows Server Gateway.
Configure Teredo transition technology.	Enable network address translation (NAT).



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