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Infrastructure Exam

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Added 4 Case Study Questions and Many New R2 Questions

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General Background

You are the system administrator for Contoso, Ltd.

The Company has a main office in Dallas and a sales office in San Francisco.

All off he data centers fort he company have network connectivity to each other.

There is a single Active Directory Services (AD DS) domain for the entire company named contoso.com.

Main Office Environment

The promary data center is located in Contoso's main office in Dallas.

Main Office Clusters

The data Center has a cluster named Cluster 1 that runs Windows Server 2012 R2. Cluster1 uses the domain Cluster1.contoso.com.

The cluster is partially configured and has three server nodes.

The cluster uses storage area network (SAN) attached storage. There are no cluster roles assigned.

Cluster1 contains the following domains:

- CLUS1-SRV1.contoso.com
- CLUS1-SRV2.contoso.com
- CLUS1-SRV3.contoso.com

In addition, the environment contains two Windows Server 2012 R2 Hyper-V clusters named HV-Cluster1 and HV-Cluster2. HV-Cluster1 and HV-Cluster2 use Fibre Channel SAN storage. The Hyper-C clusters contain server nodes as showing in the following table:

HV-Cluster1	HV-Cluster2
HV-SERVER1	HV-DEVSERVER1
HV-SERVER2	HV-DEVSERVER2
HV-SERVER3	HV-DEVSERVER3
HV-SERVER4	HV-DEVSERVER4

QUESTION 1

You need to automatically restart the appropriate web service on DETCRL01 and CHICRL01 if the web service is stopped.

Solution: You create a recovery task in SCOM and configure it to start the World Wide Web publishing service.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

Explanation:

The Internet Information Services (IIS) World Wide Web Publishing Service (W3SVC), sometimes referred to as the WWW Service, manages the HTTP protocol and HTTP performance counters. The following is a list of the managed entities that are included in this managed entity:

* IIS Web Site

An Internet Information Services (IIS) Web site is a unique collection of Web pages and Web applications that is hosted on an IIS Web server. Web sites have bindings that consist of a port number, an IP address, and an optional host name or names.

* Active Server Pages (ASP)

[https://technet.microsoft.com/en-us/library/cc734944\(v=ws.10\).aspx](https://technet.microsoft.com/en-us/library/cc734944(v=ws.10).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 install a local instance of MFA Server. You connect the instance to the Microsoft Azure MFA provider, and then run the following Windows PowerShell cmdlet.

Enable-AdfsDeviceRegistration

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

We must install AD FS Adapter, not register a host for the Device Registration Service.

Note: The Enable-AdfsDeviceRegistration cmdlet configures a server in an Active Directory Federation Services (AD FS) farm to host the Device Registration Service.

<https://msdn.microsoft.com/en-us/library/azure/dn807157.aspx>

QUESTION 3

An organization uses an Active Directory Rights Management Services (AD RMS) cluster named RMS1 to protect content for a project. You uninstall AD RMS when the project is complete.

You need to ensure that the protected content is still available after AD RMS is uninstalled.

Solution: You enable the decommissioning service by using the AD RMS management console.

You grant all users the Read & Execute permission to the decommission pipeline.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

The proper procedure is:

Inform your users that you are decommissioning the AD RMS installation and advise them to connect to the cluster to save their content without AD RMS protection. Alternatively, you could delegate a trusted person to decrypt all rights-protected content by temporarily adding that person to the AD RMS super users group.

After you believe that all of the content is unprotected and saved, you should export the server licenser certificate, and then uninstall AD RMS from the server.

QUESTION 4

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 is required for the planned deployment.

Which certificate should you identify?

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

Answer: A

Explanation:

Prepare Your Server and Install ADFS You can install ADFS on a domain controller or another server. You'll first need to configure a few prerequisites.

The following steps assume you're installing to Windows Server 2008 R2.

Using Server Manager, install the IIS role and the Microsoft .NET Framework. Then purchase and install a server-authentication certificate from a public certificate authority. Make sure you match the certificate's subject name with the Fully Qualified Domain Name of the server.

Launch IIS Manager and import that certificate to the default Web site.

<https://technet.microsoft.com/en-us/magazine/jj631606.aspx>

QUESTION 5

You administer an Active Directory Domain Services environment.

There are no certification authorities (CAs) in the environment.

You plan to implement a two-tier CA hierarchy with an offline root CA.

You need to ensure that the issuing CA is not used to create additional subordinate CAs.

What should you do?

- A. In the CAPolicy.inf file for the issuing CA, enter the following constraint:
PathLength=1
- B. In the CAPolicy.inf file for the root CA, enter the following constraint:
PathLength=1
- C. In the CAPolicy.inf file for the root CA, enter the following constraint:
PathLength=2
- D. In the CAPolicy.inf file for the issuing CA, enter the following constraint:
PathLength=2

Answer: B

Explanation:

You can use the CAPolicy.inf file to define the PathLength constraint in the Basic Constraints extension of the root CA certificate. Setting the PathLength basic constraint allows you to limit the path length of the CA hierarchy by specifying how many tiers of subordinate CAs can exist beneath the root. A PathLength of 1 means there can be at most one tier of CAs beneath the root. These subordinate CAs will have a PathLength basic constraint of 0, which means that they cannot issue any subordinate CA certificates.

<http://blogs.technet.com/b/askds/archive/2009/10/15/windows-server-2008-r2-capolicy-inf-syntax.aspx>

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).	Deploy Windows Server Gateway.
	Add a network service.
Configure ISATAP transition technology.	Enable network address translation (NAT).
Configure Teredo transition technology.	

QUESTION 10

You administer a group of servers that run Windows Server 2012 R2.

You must install all updates.

You must report on compliance with the update policy on a monthly basis.

You need to configure updates and compliance reporting for new devices.

What should you do?

- A. Deploy the Microsoft Baseline Security Analyzer.
Scan the servers and specify the /apply switch.
- B. In Configuration Manager, deploy a new Desired Configuration Management baseline that includes all required updates.
- C. Configure a new group policy to install updates monthly.
Deploy the group policy to all servers.
- D. In Operations Manager, create an override that enables the software updates management pack. Apply the new override to the servers.

Answer: B

Explanation:

<https://technet.microsoft.com/en-us/library/bb680553.aspx>

QUESTION 11

You are an Active Directory administrator for Contoso, Ltd.

You have a properly configured certification authority (CA) in the contoso.com Active Directory Domain Services (AD DS) domain.

Contoso employees authenticate to the VPN by using a user certificate issued by the CA.

Contoso acquires a company named Litware, Inc., and establishes a forest trust between contoso.com and litwareinc.com.

No CA currently exists in the litwareinc.com AD DS domain.

Litware employees do not have user accounts in contoso.com and will continue to use their litwareinc.com user accounts.

Litware employees must be able to access Contoso's VPN and must authenticate by using a user certificate that is issued by Contoso's CA.

You need to configure cross-forest certificate enrollment for Litware users.

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

- A. Grant the litwareinc.com AD DS Domain Computers group permissions to enroll for the VPN template on the Contoso CA.
- B. Copy the VPN certificate template from contoso.com to litwareinc.com.
- C. Add Contoso's root CA certificate as a trusted root certificate to the Trusted Root Certification Authority in litware.com.
- D. Configure clients in litwareinc.com to use a Certificate Policy server URI that contains the location of Contoso's CA.

Answer: CD

Explanation:

http://social.technet.microsoft.com/wiki/contents/articles/7734.certificate-enrollment-web-services-in-active-directory-certificate-services.aspx#Forest_Consolidation

QUESTION 12

Your network contains an Active Directory domain named contoso.com.

You currently have an intranet web site that is hosted by two Web servers named Web1 and Web2. Web1 and Web2 run Windows Server 2012. Users use the name intranet.contoso.com to request the web site and use DNS round robin. You plan to implement the Network Load Balancing (NLB) feature on Web1 and Web2. You need to recommend changes to the DNS records for the planned implementation. What should you recommend?

- A. Delete one of the host (A) records named Intranet. Modify the remaining host (A) record named Intranet.
- B. Delete both host (A) records named Intranet. Create a pointer (PTR) record for each Web server.
- C. Create a new host (A) record named Intranet. Remove both host (A) records for Web1 and Web2.
- D. Create a service locator (SRV) record. Map the SRV record to Intranet.

Answer: C

Explanation:

You must manually register the NLB cluster name in DNS by using a host (A) or (AAAA) record because DNS does not automatically register static IP addresses.

<https://technet.microsoft.com/en-us/library/bb633031.aspx>

QUESTION 13

An organization uses an Active Directory Rights Management Services (AD RMS) cluster names RMS1 to protect content for a project.

You uninstall AD RMS when the project is complete.

You need to ensure that the protected content is still available after AD RMS is uninstalled.

Solution: You run the following command from an administrative command prompt:

```
cipher /a/d/s:<protected share name>
```

Does this meet the goal?

- A. Yes
- B. No

Answer: B

QUESTION 14

You need to deploy the dedicated storage servers to support the new web application servers. What should you do?

- A. Install windows storage server 2012 R2 workgroup on STORAGE1 and STORAGE2. Use STORAGE 1 and STORAGE2 as scale-out file servers.
- B. Install windows storage server 2012 R2 standard on STORAGE1 and STORAGE2. Use STORAGE1 and STORAGE2 as iSCSI target servers.
- C. Install windows storage server 2012 R2 workgroup on STORAGE1 and STORAGE2. Use STORAGE1 and STORAGE2 as iSCSI target servers.
- D. Install windows storage server 2012 R2 standard on STORAGE1 and STORAGE2. Use STORAGE1 and STORAGE2 as scale-out file server.

Answer: D

Explanation:

<https://technet.microsoft.com/en-us/library/hh831349.aspx>

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