Implementing an Advanced Server Infrastructure

Version: Demo 14.0
Topic 1, Mix Questions

QUESTION NO: 1


You need to create a virtual disk that supports three-way mirroring.

How many physical disks would you require for this virtual disk?

A. You would require a single physical disk.
B. You would require at least two physical disks.
C. You would require at least three physical disks.
D. You would require at least four physical disks.
E. You would require at least five physical disks.
F. You would require at least six physical disks.

Answer: E

Topic 2, ABC Engineers

Overview

ABC Engineers is a shipping, manufacturing and distribution company located in Detroit with branch offices in Miami, Toronto, Dallas and New York.

Existing Environment Network Infrastructure

ABC Engineers network consists of a single Active Directory domain named ABC.com. ABC Engineers network contains a File server, DNS servers, DHCP servers, Windows Server Update Services (WSUS), SQL server and servers configured for Failover Clustering.

The ABC Engineers branch offices all contain a single DNS and DHCP server. The branch office DHCP servers are configured with a scope for their respective office. All ABC Engineering offices are configured as a single subnet communicating via 1 gigabit per second network speeds with
VPN connections for connecting offices and Internet access.

Current Issues

Several branch office network users started complaining about poor network transfer speeds when copying files located on the Detroit office File server. A thorough investigation has determined that the branch office users experience the poor network transfer speeds during times of peak network traffic.

Planned Changes

ABC Engineers wants to have all Detroit office and branch office servers replaced with server running Microsoft Windows Server 2012 whilst creating web-based application which access Customer Relationship Management (CRM) databases and saves sessions to memory of the Web servers.

ABC Engineers additionally plans deployment of Microsoft System Center and two front-end Web servers running from virtual machines whilst monitoring and creating alerts when CRM database availability to the Web applications is below 90 percent.

Business Requirements

ABC Engineers requires that all future growth plans minimize the cost of hardware and software as much as possible whilst ensuring network traffic across VPN’s connecting offices are kept at a minimum. ABC Engineers wants to ensure connectivity to the Detroit office File server shares in the event of Internet Link failures.

Technical Requirements

ABC Engineers wants the DHCP implementation highly available with the utilization of a encrypted central database for storing all office security events. ABC Engineers Detroit office Administrators should be the only administrators allowed managing and approving Windows Updates and third-party Updates. The HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Parameter of the RelabelTimeSource should be set to 1 ensuring all domain controllers time are accurate.

Virtualization Requirements

ABC Engineers wants to have administrative overhead reduced by assigning users the minimal required permissions and privileges whilst ensuring members of a group named ABC1 are able to add WSUS servers to the fabric. ABC Engineers additionally wants administrative effort of the virtual infrastructure minimized and be able to generate a diagram view of the virtual environment.

ABC Engineers want you to ensure the Customer Relation Management (CRM) database is not
affected from the front-end web server whilst ensuring members of the group ABC2 are able to create virtual machines in the Dallas office. ABC Engineers wants the System Center 2012 Virtual Machine Manager (VMM) library objects when creating virtual machine templates whilst applying limited distribution release (LDR) updates to the virtualization hosts without affecting other running virtual machines.

QUESTION NO: 2

In order to adhere to the visualization requirements, how would you have the web servers which will be utilized for hosting ABC Engineers applications deployed?

A. You should consider having Network Load Balancing utilized in Unicast mode.
B. You should consider having Network Load Balancing with client affinity utilized.
C. You should consider having Network Load Balancing Cluster Operation Mode utilized.
D. You should consider having Network Load Balancing utilized in Multicast mode.

Answer: B

Topic 1, Mix Questions

QUESTION NO: 3

You work as the network administrator at ABC.com. ABC.com consists of a single Active Directory domain named ABC.com. ABC.com has two Microsoft Windows Server 2012 web servers named ABC-SRV12 and ABC-SRV15. The ABC-SRV12 and ABC-SRV15 use DNS round robin and host an intranet web site name co.ABC.com.

How would you enable Network Load Balancing (NLB) on the web servers? (Select Three)

A. You should add an alias (CNAME) record for the intranet web site.
B. You should remove the host (A) records for the intranet web site.
C. You should add a pointer (PTR) record for the intranet web site.
D. You should add a pointer (PTR) record for ABC-SRV12.
E. You should add a pointer (PTR) record for ABC-SRV15.
F. You should add an alias (CNAME) record for ABC-SRV12.
G. You should add an alias (CNAME) record for ABC-SRV15.
H. You should remove the host (A) records for ABC-SRV12.
I. You should remove the host (A) records for ABC-SRV15.

Answer: B,D,E

Topic 3, ABC Industries

Overview

ABC Industries is an International fishing, shipping and distribution company distributing various ocean delectable to customers around the world. ABC Industries main office is located in Long Beach, California with branch offices located in Dallas, Boston and Houston.

Existing Environment


ABC Industries branch offices contain a single DNS and DHCP server. The branch offices have several client computers still running the older Microsoft Windows XP Professional operating system. The branch office networks are configured with multiple subnets. The offices utilize network connections that transmit and receive information at 1 gigabit per second network speeds with VPN connections for connecting offices and Internet access.

Current Issues

ABC Industries is aware of the low bandwidth WAN link utilized between Long Beach and Boston has a very high latency and can only be replaced in the upcoming year.

Application Requirements

ABC Industries plans on developing an application named ABCProducts which will be offered to customers as a service. The ABCProducts application utilizes a front-end Web server, Windows Communication Foundation (WCF) and back-end Microsoft SQL Server 2008 R2 database.
ABC Industries plans on utilizing several virtual machines for hosting the tiers of the application since Multiple-tiers cannot coexist on a single virtual machine. ABC Industries customers would be able to choose from the Standard service which includes a single interface for each virtual machine. The Executive service option includes multiple instances of each virtual machine required by the application for high-availability and fault tolerance.

The Long Beach office File server hosts the virtual hard disk (VHD) files in a file share which is available if the server suffers a failure. ABC Industries has future plans for an application named ABCPartners which will utilize a front-end Web server and dedicated back-end SQL Server 2008 R2 database server. The Dallas office will be utilized for their virtual machines configured in a Hyper-V cluster for hosting the ABCPartners application utilized by a sister company named KingEngineering. ABC Industries makes a backup of the ABCPartners application virtual machines to the Dallas office.

The KingEngineering sister company has a single Active Directory domain named ABC.com. KingEngineering network infrastructure includes a server hosting Active Directory Federation Services (AD FS) server role and all of the Active Directory Federation Services (AD FS) role services.

Planned Changes

ABC Industries plans on replacing the Microsoft Windows Server 2008 R2 servers with servers running Microsoft Windows Sever 2012 and configure a private cloud for utilization using Microsoft System Center 2012 for the hosting of ABCProducts application. The Long Beach office will acquire Hyper-V hosts on the perimeter network and local network. The Dallas office will acquire new Hyper-V hosts whilst the Long Beach office is configured to utilize a Public Key Infrastructure (PKI). ABC Industries also want Microsoft System Center 2012 Configuration Manager primary site with all system deployed at the Long Beach office.

Notification Requirements

ABC Industries wants to utilize Help Desk tickets which will be generated automatically in event of ABCProducts application instances becoming unresponsive whilst ensuring the Executive customers receive additional e-mail notification for instances of tickets to their ABCProducts application.

Technical Requirements

ABC Industries wants hardware and software costs minimized wherever possible whilst reducing the amount of WAN traffic and administrative overhead. ABC Industries additionally wants to ensure the ABCPartners application has the fastest possible failover for virtual machines whilst ensuring the administrators are able to view consolidated reports concerning software updates of all offices. ABC Industries wants only the Long Beach office administrators to approve of updates for computers in all offices.
Security Requirements

ABC Industries has foreseen the need for an offline root certification authority (CA) which will be utilized for issuing certificates to client computers via a server in respective offices. ABC Industries wants to ensure all security events concerning the CA configuration and security settings are logged whilst allowing client computers to renew certificates over the Internet.

ABC Industries wants members of the group ABC1 to create new instances of ABCProducts application utilizing the private cloud whilst ensuring new certificates are issued when client computers are connected to local networks only. ABC Industries wants to have BitLocker Drive Encryption (BitLocker) utilized by the virtual machines hosting ABCPartners application instances whilst ensuring sister company KingEngineering network administrators are able to access ABCPartners application instances utilizing ABC.com network credentials.

QUESTION NO: 4

ABC Industries wants you to implement Network Load Balancing for the front-end servers utilized by ABCProducts application. However, the front-end servers must be deployed using a service template.

How would you accomplish this?

A. You should consider utilization of a SQL Server profile and VIP template.
B. You should consider utilization of a VIP template.
C. You should consider utilization of an Application profile and host profile.
D. You should consider utilization of a Hardware profile.

Answer: B

Topic 1, Mix Questions

QUESTION NO: 5

You work as the network administrator at ABC.com. ABC.com consists of a single Active Directory domain named ABC.com. ABC.com domain controllers run Microsoft Windows Server 2012 and
all client computers utilize Microsoft Windows 7. ABC.com has recently deployed a computer named ABC-DC01 to the domain.

ABC-DC01 is configured with the Active Directory Domain Services (AD DS) and Active Directory Certificate Services (AD CS) roles. ABC.com wants you to implement a solution which is able to deploy over 16000 certificates for externally accessible web servers which utilize Secure Sockets Layer (SSL) and 32000 certificates for e-mail with Internet-based clients.

Which action should be taken?

A. You should consider implementing the Certificate Enrollment Policy Web Service role and Certificate Enrollment Web Services role.
B. You should consider implementing an Online Responder.
C. You should consider utilizing an online issuing CA and a root CA.
D. You should consider utilizing two online enterprise root CA and two offline enterprise issuing CA.
E. You should consider utilizing an offline enterprise root CA and offline enterprise policy CA.
F. You should consider utilizing a subordinate CA and enrolling it to an external root CA.
G. You should consider utilizing an offline standalone root CA and online enterprise issuing CA.

Answer: F

QUESTION NO: 6

You work as the network administrator at ABC.com. ABC.com consists of a single Active Directory domain named ABC.com that comprises a single site. ABC.com has two Microsoft Windows Server 2012 computers named ABC-SR12 and ABC-SR13, as well as 150 Windows 7 client computers. All client computers have static IPv4 addresses. ABC.com recently added a Storage Area Network (SAN) device to the network.

ABC.com requests that you implement DHCP for IP configuration of the client computers. You create a failover cluster using ABC-SR12 and ABC-SR13. You now want to ensure that client computers receive IP configurations if one of the servers fails.

Which action should you take?
A. You should consider implementing IPv6 addressing on all client computers.
B. You should consider configuring DHCP to run in stateless mode.
C. You should consider configuring DHCP as a clustered resource.
D. You should consider creating a DHCP scope with half the IP addresses on each server.
E. You should consider configuring a DHCP Relay Agent on the servers.

Answer: A, B, C

QUESTION NO: 7

You work as the network administrator at ABC.com. ABC.com consists of a single Active Directory domain named ABC.com. ABC.com domain controllers run Microsoft Windows Server 2012 and all client computers utilize Microsoft Windows 7. ABC.com has recently implemented several Microsoft System Center 2012 roles to domain controllers located on the network.

ABC.com network users utilize a Web application named TWork which is hosted on several Web servers. During the course of the day you receive complaints from network users concerning the web application being non-functioning. You troubleshoot the issue and discover the registry has some missing keys requires by the web application.

What should you do to deploy the missing registry values successfully to the required web servers?

A. You should consider creating create an event rule in Configuration Manager.
B. You should consider creating performance rule in Configuration Manager.
C. You should consider creating a Compliance Setting in Configuration Manager.
D. You should consider creating a scripting rule in Operations Manager.
E. You should consider creating an alert in Operations Manager.

Answer: C
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QUESTION NO: 8

In order to adhere to the technical requirements, which type of clustering should you implement for the file servers?

A. You should consider implementing a scale-out file server for the file servers.
B. You should consider implementing a fail-over cluster for the file servers.
C. You should consider implementing Network Load Balancing (NLB) for the file servers.
D. You should consider including an Asymmetric clustered File server for the file servers.
E. You should consider implementing a two-node cluster with a single witness server for the file servers.

Answer: A

QUESTION NO: 9

ABC Industries wants configuration modifications of the Certification Authority role service to be logged.

How would you implement this?

A. You should consider enabling auditing of system events.
B. You should consider enabling logging.
C. You should consider enabling auditing of object access.
D. You should consider enabling auditing of privilege use.
E. You should consider enabling auditing of process tracking.

Answer: B,C
QUESTION NO: 10

ABC Industries recently created several Virtual Hard Disk (VHD) files which are utilized by instances of the ABCProducts and ABCPartners applications. ABC Industries wants you to implement a storage solution for the Virtual Hard Disk (VHD) files which ensures maintenance is minimized if any Hyper-V host should fail.

How would you accomplish this?

A. You should consider including clustered Network Load Balancing.
B. You should consider including a clustered File Server of the general use type.
C. You should consider including an Asymmetric clustered File server.
D. You should consider including a Failover data tier clustered File servers.

Answer: B