Microsoft 70-297

Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure

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Case Study #1 A. Datum Corporation

Overview
A. Datum Corporation is a company that provides technical classes at locations across North America. The company primarily offers instructor-led courses, on a Monday-through-Friday schedule.

Physical Locations
The company's main office is located in Atlanta. The company has three branch offices in the following locations:

- **Chicago**
- **Dallas**
- **Seattle**

In Addition to the main office in Atlanta, there are also two satellite offices: Atlanta East and Atlanta West. There is no IT staff in the satellite offices

Planned Changes
The company has evolved into a single business unit from four separate technical schools in each of the cities where the company's offices are currently located.

The company recognizes that a cohesive administrative structure will better serve its employees and better secure critical resources.

Recently, the company has begun to offer classes from Atlanta that are available online via the Internet. The company wants to begin offering online content from all offices, not just from Atlanta.

Business Process
Currently, the offices of A. Datum Corporation operate as four independent business units: Atlanta, Chicago, Dallas, and Seattle.

The IT staff in each office functions independently. Network resource access is primarily localized to each office with the exception of the student records database and the current online courseware, which are hosted on servers in Atlanta only.

The student records database contains students' personal data and their transcripts. Currently, the branch offices e-mail the students' enrollment and transcript information to the Atlanta office for entry into the student records database. The admissions department enters personal student data and the registrar's department enters grades. The student records database currently cannot be updated from any other location.

The online course content is already developed and in use.

Directory Services
The servers are configured as shown in the Available Servers exhibit.

The Atlanta office currently has a Windows 2000 Active Directory domain.

The Chicago and Dallas branch offices are both running in workgroup configurations.

Each office manages its own users and groups.

Network Infrastructure
The existing network is shown in the Existing Network Infrastructure exhibit.

Wan connections between the Atlanta main office and Atlanta East can be unreliable.

There are DHCP servers in Atlanta and the branch offices.

All servers are Pentium III 550-MHz or greater processors with at least 512 MB of memory.

All of the offices run various client operating systems, which include Windows 98, Windows NT Workstation 4.0, Windows 2000 Professional, Windows XP Professional, and UNIX.

The instructors run either Windows 2000 Professional or Windows XP Professional on their desktop computers at the office. UNIX instructors use a UNIX client computer to access the network when working from home.

Problem Statements
The following business problems must be considered:

- **The company recognizes that its biggest security vulnerability is the methodology that it uses to update the student records database in Atlanta. In the past, there have been problems with students gaining access to and altering their student records.**
- **There has been reason to suspect that courseware has been compromised because of weak passwords on instructors' computers.**

Chief Executive Officer
I am pleased with the performance of our staff at A. Datum Corporation. However, I am concerned about protecting our intellectual property. Both our online curriculum and the student records database need protection. Our primary focus must be that no one outside of the organization can view or modify this information.

Chief Information Officer
We need to provide an adequate security structure for our network environment. It is important that we create a centralized network operations team. I am confident in the ability of our IT staff in Atlanta to take a load administrative role in our envisioned environment.

The practice of sending student information through e-mail must stop. I think our strategy of a single, centralized student records database is valid. We need to make this database directory-aware so that users who have the responsibility for updating the student records will need only a single set of credentials to make the necessary changes.

Additionally, instructors are not receiving updated teaching schedule information on a timely basis. The issue should be addressed by ensuring that our new scheduling program is installed on all instructor computers, including the computers that the instructors use when accessing our network remotely.

Registrar, Atlanta Office

I am concerned about the network changes. The good news is that they will tell me that I will need only one logon name. However, the other news I am hearing is not good. I am told that the password I use cannot be a word. How am I going to remember a password that is not a word? I have a hard time remembering passwords as it is.

My other major concern is that I am being told that the instructors in each location will be able to enter grades. Recording grades should be my job exclusively.

Business Drivers

The following business requirements must be considered:

- **For its Web site, A. Datum Corporation is using the registered domain name adatum.com.**
- **The company anticipates more focus on the online course offerings in the future.**

Organizational Goals

The following organizational requirements must be considered:

- **The student records database must be available to all offices from Atlanta during the hours of 9:00 A.M. to 8:00 P.M. Eastern Time, Monday through Friday.**
- **The online courseware must be available 24 hours a day, seven days a week.**

Security
The following security requirements must be considered:

- **The student records database server must be secured to allow only those with the appropriate authorization to modify or add data. This authorized personnel includes both instructors and staff in each of the company's offices.**
- **Instructors will require the necessary permissions to modify the content for the online courseware for which they are responsible.**
- **Instructors are required to make changes to the online courseware and post grades from the LAN only.**

Customer Requirements
The following customer requirements must be considered:

- **Remote access will be required for all instructors when they need to access their business offices from home. Some instructors will use UNIX client computers for remote access.**
- **Instructors will need the new scheduling application to be installed both on their office and home computers that are members of the domain, even is using a dial-up connection.**

- **Windows 98 is currently the operating system on the sales representatives' computers. These computers will not be upgraded in the near future. However, the Active Directory client will be installed on these computers. There are sales representatives in all of the company's offices.**
- **Web access to the online curriculum is required by the students enrolled in the online classes, and must be limited to enrolled students only.**

Active Directory
The following Active Directory requirements must be considered:

- **The goals of the new Active Directory structure are to provide a centralized method of service administration for supporting the administrative staff and provide secure access to student records.**
- **Administration of the Active Directory service will be in Atlanta. Resource administration will occur in Atlanta and the branch offices.**
- **Students must not have any permissions to any resource other than the online courses.**

Network Infrastructure
The following infrastructure requirements must be considered:

- **Because the company has a limited budget, it will need to continue working with the existing physical network.**
- **For updating student grades, authorized computers in the registrar's office will require smart card support.**
- **The Atlanta, Chicago, Dallas, and Seattle offices will each host DNS subdomains to support the online courseware.**
- **The amount of DNS zone transfer or replication must be minimized.**
- **Unauthorized updates of DNS records must be prevented.**
- **All computers, including client computers, must have host (A) resource records in DNS.**
- **UNIX instructors require support of pointer (PTR) resource records for several applications used from their home computers.**
- **Network traffic needs to be minimized across the WAN links.**
- **Remote access policies for Atlanta, Chicago, Dallas, and Seattle should be centralized.**

Questions, Case Study #1 A. Datum Corporation

QUESTION NO: 1
You are designing the new forest structure and migration strategy to meet the business and technical requirements. What should you do?

To answer, move the appropriate actions from the list of actions to the answer area, and arrange them in the appropriate order. (Use only actions that apply)

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Answer:

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Explanation:
The design is calling for a single AD Domain rooted at Atlanta

Therefore the process would be to

Upgrade Atlanta:
Restructure Atlanta (into the new OU's)
Use ADMT to move the Seattle account into the Atlanta domain (into the correct OU's)

QUESTION NO: 2
You are designing a DNS strategy to meet the business and technical requirements.
Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

A. Create a dynamic reverse lookup zone for each subnet.
B. Create a dynamic forward lookup for each domain.
C. Install caching-only DNS servers in the branch offices.
D. Enable the BIND secondaries option for each DNS server.

Answer: A, B

QUESTION NO: 3

You are designing the Group Policy settings to meet the business and technical requirements. You are reviewing a possible logical structure for the company as shown in the diagram in the work area. The Domain Controllers OU and the Seattle OU are created at the domain level. The Instructor OU and Student OU are children of the Seattle OU. The diagram does not cover all organizational requirements. Based on this diagram, how should you design the Group Policy settings?

To answer, drag the appropriate Group Policy object (GPO) option or options to the correct location or locations in the work area.

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Answer:

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QUESTION NO: 4
You need to ensure that only authorized personnel are able to modify student grades. Which desktop environment or environments should you use? (Choose all that apply)

A. Windows XP Professional
B. Windows 2000 Professional
C. Windows 98 with Active Directory client installed
D. Windows NT Workstation 4.0 with the latest service pack and Active Directory client installed

Answer: A, B
Explanation:
In order to meet the requirements you must be able to do two things.

1. Use a smart Card (a,b,c,d)

2. Apply a GPO (a,b)

The answer is therefore A+B.

QUESTION NO: 5
You need to ensure that the sales representatives are provided with adequate NetBIOS name resolution. What should you do?

A. Install WINS on the PDC emulator.
B. Install WINS on servers in Atlanta and Seattle.
C. Enable WINS lookup on the DNS server in Atlanta.
D. Enable WINS on one domain controller in each office.

Answer: D

QUESTION NO: 6
You are designing a strategy to install the new scheduling application.
Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

A. Assign the scheduling application package to the Instructor OU.
B. Publish the scheduling application package to the Instructor OU.
C. Ensure that the scheduling application can install across slow WAN links.
D. Prevent the scheduling application from installing across slow WAN links.

Answer: A, C

QUESTION NO: 7
You are designing a VPN authentication strategy to meet the business and technical requirements. What should you do?

A. Implement the RADIUS service in Atlanta.
B. Implement the RADIUS service in each branch office.
C. Configure network address translation (NAT) on all VPN servers.
D. Configure the Connection Manager Administration Kit (CMAK) on the PDC.

Answer: A

QUESTION NO: 8
You are designing a DHCP strategy for the new Active Directory environment.
Which two groups have the necessary rights to authorize the DHCP servers? (Each correct answer presents part of the solution. Choose two)

A. IT staff in Atlanta
B. IT staff in Seattle
C. DHCP administrators in all offices
D. DHCP administrators in Atlanta only
E. Members of the Enterprise Admins group

Answer: D, E

QUESTION NO: 9
You are designing the placement of operations master roles in the new environment.
In which location or locations should a PDC emulator be designated? (Choose all that apply)

A. Atlanta
B. Chicago
C. Dallas
D. Seattle

Answer: A

QUESTION NO: 10
You are designing a DNS and DHCP implementation strategy to support the new environment.
What should you do?

A. Create a WINS resource record in the Active Directory DNS zone.
B. Create a WINS referral zone in the DNS zone that supports Active Directory.
C. Configure a DNS domain name on the DHCP server.
D. Configure the DHCP server to update DNS for DHCP clients that do not support dynamic updates.

Answer: D

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Case Study #2, City Power & Light

Overview
City Power & Light is a large provider of electrical services for residential and business customers throughout Europe.

The company purchases electricity from large power-producing companies, as well as from small wind-energy providers, such as local farmers and ranchers.

Physical Locations
The company's main office is located in Amsterdam. The company has three branch offices in the following locations:

- **Berlin**
- **Brussels**
- **Paris**

Each branch office has two or more satellite offices in the region. The number of satellite offices and the number of users in each office is shown in the following table.

Office	Number of satellite offices	Total number of users, including satellite offices
Amsterdam	0	800
Berlin	4	150
Brussels	2	70
Paris	5	120

Planned Changes
The company has experienced rapid growth in the past 12 months, and continued growth is anticipated. It is critical to business that the company provides reliable, uninterrupted service 24 hours a day, seven days a week. To meet these demands, the company wants to implement a Windows Server 2003 environment.

Business Processes
The organizational structure of the company is shown in the Organizational Structure exhibit.

The Amsterdam office and each branch office has its own IT staff. The majority of the IT staff is at the Amsterdam office. There is no IT staff at the satellite offices. The IT staff at the branch offices support their respective satellite offices.

Regional customer support is provided by the branch offices and satellite offices.

The company uses a mission-critical application named App1 that monitors the power network and detects any failures. When failures are detected, App1 automatically sends detailed information about the power failure to the nearest available field technicians. All users within the company have access to App1. App1 logs on to the App1 database by using a shared user account. The App1 database handles security within the database.

Directory Services
App1 runs on UNIX servers at the Amsterdam office and the branch offices. Each UNIX server has its own security accounts database.

Each office uses a standard user account and password for all servers in that office. Network administrators in each office know the user account and password combination. Network administrators in each office work independently, but company- wide decisions are made at the Amsterdam office.

Currently, the company does not use Windows domain structure.

Network Infrastructure
Each office uses a switched 100-Mbps Ethernet network. All client computers run Windows XP Professional.

The company uses its own private leased lines to connect the branch offices and most of the satellite offices. Some satellite offices are connected to the nearest branch office by using ISDN lines. The company wants to reduce telephone costs of these satellite offices by minimizing network traffic through

the ISDN lines. The company uses VPN connections over the Internet as a backup to connect the different offices.

Problem Statements
The following business problems must be considered:

- **A service-level agreement states that the company must resolve power failures within one day. Currently, the company cannot guarantee this requirement. Last year, there were more than 30 power failures that could not be resolved within one day. The primary cause of the delay in resolution was that the company could not identify where the problem occurred.**
- **Another service-level agreement states that the IT department must guarantee an available bandwidth of 28 Kbps to ensure adequate bandwidth for App1. Currently, the available bandwidth decreases every month, and it is uncertain how long the company can continue to guarantee this requirement. The available bandwidth is shown in the Available Bandwidth exhibit.**

- **The company is experiencing problems with the confidentiality of customer information. This is occurring because the data is not centrally managed and the security settings are inadequate.**

Chief Executive Officer
To ensure that customers of City Power & Light receive the most reliable service possible, we want to invest in upgrading App1 to a new application named NewApp. Power failures are inevitable, but if we quickly detect the problem and identify the source, we can restore power more quickly.

Chief Information Officer

Data from App1 is now saved in different locations. I am concerned about who has access to the data and how to reconstruct the data in the event of a disaster.

Network Administrator
Currently, we perform our own administration at each office. All network administrators will work together to replace App1 with NewApp. Because NewApp will be centralized, we are concerned that a failure at the Amsterdam office will affect the availability of our monitoring infrastructure.

Most important to us is the ability to monitor the state of the power network. When a failure occurs in the power network, we must detect it immediately.

Customer Service Representative
Sometimes customers call in to report a power failure two or three times for the same failure. Each time we have to ask the customer for the same information about the power failure. I want to be able to view what the customer reported the first time, and not have to ask for the same information each time the customer calls in.

Business Drivers
The following business requirements must be considered:

- **As City Power & Light changes its infrastructure, all offices must share a common namespace: cpandl.com.**
- **Availability of the monitoring infrastructure and customer support must be improved.**
- **The company will replace App1 with a new application named NewApp. NewApp is a multitier application a shown in the NewApp Architecture exhibit.**

NewApp Architecture

- **The company wants customers to be able to receive detailed information about power failures by using the telephone. Customer service representatives need to have detailed real-time information about the power failures, so they can inform customers about the duration of power failures.**
- **Each branch office must be able to maintain account policies that meet its unique national legal requirements.**

Organizational Goals

The following organizational requirements must be considered:

- **Upgrades of bandwidth are discouraged. However, upgrades of bandwidth can be permitted if justified.**
- **There are no plans to open more offices in the near future. However, the new environment must allow for future company growth.**
- **The company anticipates a 50-percent increase in the number of customers over the next two years.**

Security
The following security requirements must be considered:

- **Security of NewApp must be Active Directory integrated.**
- **DNS servers will be administered only by network administrators from the Amsterdam office.**
- **Network administrators must have Full Control permissions for NewApp.**
- **Internal users must be able to access information about customers and power failures. Customers must be allowed to access only public information.**
- **A complete power failure in one location must not affect other locations.**
- **Network administrators should only be allowed to access NewApp database servers by using smart card authentication. However, network administrators must be able to log on to users' computers to fix problems without using a smart card.**
- **Computers that have smart card readers installed must automatically get the NewApp management tools installed.**

Customer Requirements
The following customer requirements must be considered:

- **NewApp must be available 24 hours a day, seven days a week.**
- **Client applications that connect directly to NewApp must use the NetBIOS name of NewApp.**
- **To minimize WAN traffic, the branch offices need to use their local resources as much as possible.**
- **Wind-energy providers must be able to see how much electricity they have delivered. These providers should be able to connect to NewApp by using the Internet.**

Active Directory
The following Active Directory requirements must be considered:

- **City Power & Light must achieve better control of resources.**
- **The company must ensure that data can be recovered in the event of a disaster.**
- **Replication latency between sites must be minimized.**

Network Infrastructure
The following infrastructure requirements must be considered:

- **To improve customer service, information from App1 databases in all locations must be consolidated in the NewApp database.**
- **The number of services at the satellite offices must be kept to the absolute minimum.**
- **Client computers must always obtain a valid IP address, even when a DHCP server is not available for 24 hours.**
- **Field technicians must be able to connect directly to the NewApp database from their portable computers by using a remote connection. They will connect to the nearest branch office when they have to make a remote connection.**

Users
The following user requirements must be considered:

- **All users must have Microsoft Office and NewApp automatically deployed on their desktop computers. Network administrators at the branch offices must be able to decide which components of Office get installed at their locations.**
- **Resetting user passwords will be delegated to each user's manager. All customer service representatives need to be able to reset the passwords of the wind-energy providers.**

Questions, Case Study #2, City Power & Light

QUESTION NO: 1
You need to evaluate whether the currently available network bandwidth is adequate to run NewApp. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three)

A. Use a debug version of NewApp to collect information about NewApp.
B. Use Performance Monitor to collect data about the saturation of each WAN link.
C. Use Network Monitor to analyze the data that is transmitted over the network for App1.
D. Install SNMP on all computers that are connected to App1 to obtain information about App1.
E. Built a test environment for NewApp to analyze how much bandwidth is required for NewApp.

Answer: C, D, E
Explanation: We can install Network Monitor on the computers accessing App1. SNMP is required to monitor Network Packets with System Monitor. A test environment would be ideal in this case to prevent disruption of the active network.

Incorrect Answers:

A. They never stated who create the NewApp software, and we don't know if there is other versions available
B. Performance Monitor is System Monitor, but it was called Performance Monitor in NT

QUESTION NO: 2
You need to ensure that there is adequate bandwidth available to meet the service-level agreement requirements.
Which action or actions should you perform? (Choose all that apply)

A. Upgrade all WAN lines in six months.
B. Upgrade all WAN lines prior to implementing NewApp.
C. Analyze the cause of a peak in network usage in February.
D. Analyze network usage characteristics for NewApp.
Based on these results, create an upgrade plan for the WAN lines.

Answer: D
Explanation: The case study stated that they would only upgrade the WAN links if justified. Keeping a running report on the effects of NewApp would allow this.

QUESTION NO: 3
You need to ensure that the network administrators are able to administer the NewApp database servers. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

A. Create an organizational unit (OU) for all users who log on to any of the NewApp servers.
B. Create an organizational unit (OU) named NewApp Users for the NewApp users.
C. Create an organizational unit (OU) named NewApp Servers for the NewApp servers.
D. Create a Group Policy object (GPO) for the NewApp Users OU to enforce the use of IPSec.
E. Create a global group for all NewApp servers.
Add this group to the NewApp Servers OU.
F. Create a Group Policy object (GPO) for the NewApp Servers OU to enforce the use of smart cards.
G. Use the account properties to force all users who have to log on to the NewApp servers to use smart cards.

Answer: C, F (?)

QUESTION NO: 4
You are designing a strategy for migrating the UNIX user accounts to Active Directory. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three)

A. Import the user accounts as inetOrgPerson objects.
B. Import the user accounts into Active Directory by using the **Ldifde** command-line tool.
C. Export all user accounts from the UNIX servers to a text file.
D. Export all user accounts and their passwords from the UNIX servers to a text file.
Encrypt this file to achieve extra security.
E. Assign random passwords to each user object, and securely distribute the password to the users.
F. Create the same strong password for each user object, and require users to change their passwords at first logon.
G. Instruct users to use the same name and password as they used on the UNIX servers.

Answer: B, C, F
Explanation: The LDIFDE tool can be used to import user accounts into AD, so it is correct to export the accounts to a text file and then import them using LDIFDE. However, passwords cannot be added using LDIFDE upon object creation. Passwords can be modified by using the following command:
ldifde -i -f chPwd.ldif -t 636 -s dcname -b username domain password

Here's the line in the MS doc that refers to that:

The password attribute used by Active Directory is "unicodePwd." This attribute can be written under restricted conditions, but cannot be read. This attribute can only be modified, not added on object creation or read by a search.

For more info, see the following web page for Knowledge Base article 263991:
http://support.microsoft.com/default.aspx?scid=http://support.microsoft.com:80/support/kb/articles/Q263/9/91.ASP
<http://support.microsoft.com/default.aspx?scid=http://support.microsoft.com:80/support/kb/articles/Q263/9/91.ASP&NoWebContent=1>
&NoWebContent=1

QUESTION NO: 5
You are designing a site topology to meet the business and technical requirements.
What should you do?

A. Increase the replication interval between sites,
B. Use SMTP as the transport protocol for replication.
C. Create site links to represent the physical topology.
D. Disable the Knowledge Consistency Checker (KCC) and manually configure site replication.

Answer: C

QUESTION NO: 6
You are designing a NetBIOS name resolution strategy for all computers in all offices.
What should you do?

To answer, drag the appropriate name resolution component or components to the correct location or locations in the work area.

Answer:

Explanation: The NewApp application needs to be centrally located in Amsterdam. The case study did state that name resolution traffic needed to be optimized, and the NewApp application is NetBIOS based. So the users in the Amsterdam office can use the WINS server, and we can create one entry in the LMHOST file on the computers in the other offices.

QUESTION NO: 7
You are designing a strategy to optimize the DNS name resolution for the satellite offices that connect to the branch offices by using ISDN lines.
What should you do?

A. Use caching-only DNS servers at these satellite offices.
B. Configure a Hosts file for all client computers at these satellite offices.
C. Configure a DNS server to use WINS forward lookup at these satellite offices.
D. Place a DNS server with secondary zones of all domains at these satellite offices.

Answer: A
Explanation: Caching-only DNS servers use little bandwidth on the slow ISDN lines.

QUESTION NO: 8
You are designing the Active Directory infrastructure to meet the business and technical requirements. You run ADSizer, and find that it provides a solution that contains only one domain controller for Amsterdam.
What should you do?

A. Place at least two domain controllers in Amsterdam.
B. Configure the domain controller as a bridgehead server.
C. Configure the domain controller as a global catalog server.
D. Distribute the users among sites in ADSizer and recalculate the number of domain controllers.

Answer: D
Explanation: The Active Directory Sizer tool (Adsizer) is a multi-faceted wizard that asks questions about your existing or proposed domain. It then uses your responses to generate a suggested hardware configuration to meet your needs and performance requirements.

From the following categories of inputs:

- Total number of users in the domain
- Total number of attributes per user
- Average number of groups a user belongs to
- Average logon rate per second during peak hours (interactive, batch and network)

- Password expiration rate (in days)
- Number of Windows 2000-based computers in the domain
- Number of other computers in this domain
- Number of other objects published in this domain
- Desired average CPU utilization limit for each Domain Controller
- Preferred CPU type for domain controllers
- Administration workload
- Microsoft Exchange 2000 usage
- DNS related issues
- Other Active Directory-enabled application issues

From these inputs, the Adsizer tool generates a report that indicates the suggested:

- Domain controllers per domain per site.
- Global Catalog servers per domain per site.
- CPUs per machine and type of CPU.
- Disks needed for Active Directory data storage.
- Amount of memory required.
- Network bandwidth utilization.
- Domain database size.
- Global Catalog database size.
- Inter-site replication bandwidth required.

Reference:
http://searchwin2000.techtarget.com/tip/1,289483,sid1_gci942284,00.html

QUESTION NO: 9
You are designing a DHCP solution to meet the business and technical requirements. What should you do?

A. Increase the default lease time on all DHCP servers.
B. Split all address ranges across multiple DHCP servers.
C. Configure duplicate scopes on at least two DHCP servers.
D. Force client computers to obtain an IP address from Automatic Private IP Addressing (APIPA).

Answer: B
Explanation: We need the users to receive an IP address from the DHCP server even if it is not available for 24 hours. Configuring 2 DHCP servers with split address ranges would add redundancy.

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Case Study #3, Coho Vineyard

Overview
Coho Vineyard is an importer and distributor of fine wines from around the world.

Physical Locations

The company's main office is located in Los Angeles. The company has two branch offices in the following locations:

- **Paris**
- **Sydney**

The company plans to open two additional branch offices within the next year. These offices will be located in Barcelona and Lisbon.

Planed Changes
To reduce costs and streamline business processes, the company wants to implement a Windows Server 2003 Active Directory environment.

Business Processes
Coho Vineyard consists of the following departments:

- **Accounting**
- **Distribution**
- **Human resources (HR)**
- **Information technology (IT)**
- **Marketing**
- **Purchasing**
- **Sales**

The IT department maintains all internal servers and resources. Currently, the company outsources its e-mail infrastructure to an ISP in Los Angeles.

A Windows NT Server 4.0 computer named Server1 in the Los Angeles office hosts a mission-critical application. This application is accessed by users from all departments and offices in the company. The application vendor currently does not support running this application on any operating system other than Windows NT Server 4.0.

Directory Services

The company has three Windows NT 4.0 domains configured in a single master domain model as shown in the Existing Domain Model exhibit.

All user accounts are maintained in the cohovineyard domain. Client computer accounts are managed locally in each regional domain.

IT responsibilities for the company are shown in the following table.

Job title	Office	Responsibilities
Chief information officer	Los Angeles	Oversees all IT operations for all offices.
Network Administrator	Los Angeles	Manages all aspects of the network for all offices.
Help desk staff	Los Angeles	Supports all user in all offices. Performs such tasks as resetting user account passwords.
Regional network administrator, Los Angeles	Los Angeles	Managers user and computer accounts for the Los Angeles office.
Regional network administrator, Pars	Paris	Manages user and computer accounts for the Paris office.
Regional network administrator, Sydney	Sydney	Manages and maintains user and computer accounts for the Sydney office.

The existing network infrastructure is shown in the Existing Network Infrastructure exhibit.

Currently, all offices connect to the Internet directly through Windows 2000 Server computers that perform network address translation (NAT). These servers also provide a PPTP tunnel between all offices.

The existing server hardware is shown in the following table.

Server name	Role	Domain	Location	Operating system	Processor	Description and additional functions
DC1	PDC	cohovineyard	Los Angeles	Windows NT Server 4.0	Pentium III 866 MHz	
DC2	BDC	cohovineyard	Los Angeles	Windows NT Server 4.0	Pentium III 866 MHz	WINS, DHCP
DC3	BDC	cohovineyard	Paris	Windows NT Server 4.0	Pentium III 800 MHz	WINS, DHCP
DC4	BDC	cohovineyard	Sydney	Windows NT Server 4.0	Pentium III 800 MHz	WINS, DHCP
DC5	PDC	Paris	Paris	Windows NT Server 4.0	Dual RISC 250 MHz	File server for Paris
DC6	PDC	Sydney	Sydney	Windows NT Server 4.0	RISC 250 MHz	File server for Sydney
Server1	Member server	cohovineyard	Los Angeles	Windows NT Server 4.0	Dual RISC 250 MHz	Mission-critical application server

Client Computers and Users

The current user population for each office and department is shown in the following table.

Department	Los Angeles	Paris	Sydney	Total
Accounting	10	2	2	14
Distribution	50	5	5	60

HR	5	1	1	7
IT	5	2	2	9
Marketing	10	1	1	12
Purchasing	30	20	20	70
Sales	50	5	5	60
Total number of users	160	36	36	232

The current operating systems installed on the client computers are shown in the following table.

Operating system	**Los Angeles**	**Paris**	**Sydney**	**Total**
Windows NT 4.0 workstation, with latest service pack	100	0	0	100
Windows 2000 Professional	20	25	29	74
Windows XP Professional	30	5	1	36
Total client computers	150	30	30	120

The current operating systems installed on the client computers are shown in the following table.

Operating system	**Los Angeles**	**Paris**	**Sydney**	**Total**
Windows NT 4.0 Workstation, with latest service pack	100	0	0	100
Windows 2000 Professional	20	25	29	74
Windows XP Professional	30	5	1	36
Total client computers	150	30	30	210

Problem Statements
The following business problems must be considered:

- **Because of security limitations of Windows NT Server 4.0, all IT staff has been added to the Administrators group of the cohovineyard domain. IT staff should be allowed administrative rights only to their specific areas of responsibility.**
- **Lack of control over IT procedures and processes have made the current environment costly to maintain.**

Chief Executive Officer
The current IT infrastructure at Coho Vineyard as negatively affecting business operations. IT operations need to be streamlined to accommodate the anticipated growth.

Chief Information Officer
The current IT environment needs to be reorganized. Corporate standards need to be implemented. Users currently install unauthorized and unlicensed software. These installations need to be implemented. Administrative roles have been clearly defined, but now need to be enforced.

The IT budget for the next year has already been allocated. No new server hardware is to be purchased for the existing offices. New server hardware has been budgeted for the new offices.

After the deployment of Active Directory is complete, e-mail services will be implemented by using Microsoft Exchange Server 2003. The Exchange Server 2003 infrastructure will be maintained by the internal IT staff.

Also we want to provide all users VPN access to the network.

Network Administrator
There is a need to provide standardized settings for all users and computers. The current IT administration practices need to be reevaluated, and new practices that are more effective need to be enforced.

Office Worker
The current environment is difficult to use. Information is scattered on the network, making it difficult to find. There does not seem to be any clear definition as to who is responsible for responding to network and computer problems. Because of this confusion, most users manage their own computers.

Also, we want to be able to connect to the network when working remotely.

Business Drivers

The following business requirements must be considered:

- **The current namespace used for the externally hosted e-mail infrastructure is cohovineyard.com. This namespace will be used when e-mail services are implemented internally.**
- **The new environment must provide fault tolerance in the event of a single domain controller failure.**
- **The ISP provides extremely reliable service for each location. No plans are being made to provide for redundant links. The current level of network outages caused by WAN link failures is considered to be acceptable.**
- **To improve network support, Windows Server 2003 will become the corporate standard for all server computers wherever possible. Client computers will be standardized over the next two years to run Windows XP Professional.**

Organizational Goals
The following organizational requirements must be considered:

- **Branch offices in Lisbon and Barcelona will be implemented in the next year. The Lisbon branch office is expected to have 65 users and client computers. The Barcelona branch office will have no more than 10 users and client computers.**
- **Because of the small size of the Barcelona branch office, it will have no IT staff and no servers. The Lisbon IT staff will manage users and computers for both the Lisbon and Barcelona branch offices.**

- **Two servers have been purchased for the Lisbon branch office. One will be designated as a domain controller. The other server will be a VPN server and will also provide NAT services.**

Security
The following security requirements must be considered:

- **Regional network administrators must have only limited control over the Active Directory service. They will be responsible for managing user and computer accounts for their regions. They will also manage local servers.**
- **The network administrator in the Los Angeles office will manage all domain controllers, configure sites, and perform other high-level administrative tasks.**
- **Users will have limited access to their computers. They will be allowed to modify only certain desktop settings, and they will not be allowed to install unauthorized applications.**
- **Some users currently have blank passwords. Password security standards must be implemented.**
- **Security auditing must be implemented to track all unauthorized logon attempts to the domain. Auditing must not be enabled on any client computers.**

Active Directory
The following Active Directory requirements must be considered:

- **Centralized control over Active Directory must be maintained by the network administrator in the Los Angeles office. Limited access to Active Directory will be given to the help desk staff and the regional network administrators.**
- **Although bandwidth is not currently an issue, and incremental increase in bandwidth usage is anticipated. To accommodate this projected growth, all designs should minimize WAN traffic.**
- **Departments within Coho Vineyard have their own unique needs, which include, but are not limited to, specialized departmental applications.**

Network Infrastructure
The following infrastructure requirements must be considered:

- **Remote access security and restrictions for all offices must be implemented and managed centrally by the network administrator in the Los Angeles office. Only one set of remote access policies must exist for the company.**
- **A domain-naming strategy must be identified that reduces administrative complexity and is intuitive to the users.**
- **One domain controller in each of the current offices will have the DNS service installed. DNS name resolution traffic must be minimized over all WAN links.**

Questions, Case Study #3, Coho Vineyard

QUESTION NO: 1
As part of your design, you are evaluating whether to upgrade all domains to Windows Server 2003. Based on current configurations, which server or servers prevent you from achieving this goal? (Choose all that apply)

A. DC2
B. DC3
C. DC4
D. DC5
E. DC6
F. Server1

Answer: D, E
Explanation: The question asks what is preventing you from upgrading the DOMAINS to 2003.
Server1 is a MEMBER Server so that has no bearing on the DOMAIN functional level.
The server itself cant be upgraded but the DOMAIN can.
The correct answer is D,E.
Both these servers are PDC in their domain. The problem is that they are RISC servers. There is no RISC version of Windows 2003 so the domain cannot be upgraded.

QUESTION NO: 2
You are designing the Windows Server 2003 Active Directory forest structure to meet the business and technical requirements.
Which forest structure should you use?

A. One Active Directory forest with one domain.
B. One Active Directory forest with three domains.
C. One Active Directory forest with four domains.
D. Two Active Directory forests with one domain in each forest.
E. Three Active Directory forests with one domain in each forest.

Answer: A
Explanation: In the security section of the case study it states:

Regional network administrators must have only limited control over the Active Directory Service. they will be responsible for managing user and computer accounts for thier regions. Therefore the locations will become OU's and we will delegate control.

The network administrator in the Los Angeles office will manage all domain controllers, configure sites and perform other high-level administrative tasks. This would then be the Root of the forest. There was no reason in the case study given that would state the requirement of a multi domain model such as different passwords or schema.

QUESTION NO: 3
You are designing the top-level organizational unit (OU) structure to meet the business and technical requirements. Your design must accommodate the anticipated growth of the company.
Which top-level OU structure should you use?

A. Paris OU, Sydney OU, Los Angeles OU, Lisbon-Barcelona OU
B. IT Administration OU, All CohoVineyard Departments OU, All CohoVineyard Offices OU
C. Sales OU, Purchasing OU, Marketing OU, Accounting OU, Distribution OU, Human Resources OU
D. CohoVineyard Users OU, CohoVineyard Computers OU, CohoVineyard Servers OU, CohoVineyard Applications OU

Answer: A
Explanation: In the security section of the case study, same as the last question "Regional network administrators must have only limited control over the Active Directory Service. they will be responsible for managing user and computer accounts for their regions"

Under the Organizational Roles section "Because of the small size of the Barcelona branch office, it will have no IT staff and no servers. The Lisbon IT staff will manage users and computers for both the lisbon and Barcelona branch offices". The justifies the creation of the "Lisbon-Barcelona" OU

QUESTION NO: 4
You are designing a plan for applying the security policy settings to meet the business and technical requirements. Where should you implement the auditing password policy settings?

To answer, drag the appropriate policy setting or settings to the correct location or locations in the work area.

Policy Setting
Auditing policy setting
Password policy setting
Work Area
Drag auditing policy here
Drag password policy here
Site
Drag auditing policy here
Drag password policy here
Domain
Drag auditing policy here
Drag password policy here
Domain Controllers OU
Drag auditing policy here
Drag password policy here
Local Security Policy for DC1
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Answer:

Work Area
Drag auditing policy here
Drag password policy here
Site
Drag auditing policy here
Password policy setting
Domain
Auditing policy setting
Drag password policy here
Domain Controllers OU
Drag auditing policy here
Drag password policy here
Local Security Policy for DC1
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Explanation: Account Logon events take place on the domain contollers. Password polices always go to the domain.

QUESTION NO: 5
As part of your design, you are evaluating whether a second-level organizational unit (OU) structure is required.
Which factor necessitates the need for a second-level OU structure?

A. Audit policy settings
B. Software deployment needs
C. Client operating systems in use
D. Delegation of administrative authority

Answer: B
Explanation: Under the Active Directory Section, "Departments within Coho Vineyard have thier own unique needs, which include but are not limited to, specialized departmental applications." This would justify a 2nd level OU structure by Departments.

QUESTION NO: 6
You are designing a DNS name resolution strategy to meet the business and technical requirements.
Which action or actions should you perform? (Choose all that apply)

A. Create an Active Directory-integrated zone named cohovineyard.com on a domain controller in Los Angeles.
B. Create an Active Directory-integrated zone named paris.cohovineyard.com on a domain controller in Paris.
C. Create an Active Directory-integrated zone named sydney.cohovineyard.com on a domain controller in Sydney.
D. On a domain controller in Los Angeles, delegate paris.cohovineyard.com to a domain controller in Paris.
E. On a domain controller in Los Angeles, delete sydney.cohovineyard.com to a domain controller in Sydney.

Answer: A
Explanation: We only have a single domain. Under the Network Infrastructure section it states: "A domain-naming strategy must be identified that reduces administrative complexity and is intuitive to other users." You can get anymore simple than a Single Active Directory Domain.

QUESTION NO: 7
You are designing a plan for maintaining the WINS infrastructure on the new Windows Server 2003 Active Directory environment.
Which factor or factors necessitate the need to maintain the WINS infrastructure? (Choose all that apply)

A. Client operating systems in use.
B. Server operating systems in use.
C. VPN client access by using PPTP.
D. Installation of Active Directory client software.

Answer: A, B
Explanation: Server1 will not be upgraded due to the mission critical application. Until the upgrade of the client computers to Windows XP Pro takes place, there are still several that are running pre-windows 2000 OS's

QUESTION NO: 8
You are designing a DNS implementation strategy for the Paris office.
Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

A. Create an Active Directory-integrated zone named cohovineyard.com.
B. Create an Active Directory-integrated zone named paris.cohovineyard.com.
C. Create a standard primary zone named paris.cohovineyard.com.
D. Configure all computers in Paris to use DC3 as their DNS server.
E. Configure all computers in Paris to use DC6 as their DNS server.

Answer: A, D
Explanation: We already know about the one domain. So that is a given. Under the Network Infrastructure Section: "One domain controller in each of the current offices will have the DNS service installed. DNS name resolution traffic must be minimized over all WAN links". The local server for Paris is DC3

QUESTION NO: 9
You are designing a strategy for implementing Internet Authentication Service (IAS) to meet the business and technical requirements.
What should you do?

A. Install IAS on VPN1, VPN2, and VPN3.
B. Install IAS, on VPN1.
   Configure VPN2 and VPN3 as RADIUS clients.
C. Install IAS on VPN1.
   Configure VPN1, VPN2, and VPN3 as RADIUS clients.
D. Install IAS on DC1.
   Configure VPN2 and VPN3 as RADIUS clients.
   Create all remote access policies on VPN1.
E. Install IAS on DC2.
   Configure VPN2 and VPN3 as RADIUS clients.
   Configure remote access logging on VPN1.

Answer: C
Explanation: None of the answers appear that good but:-

A. You only require 1 IAS server
B. All VPN servers have to be IAS clients
C. This is the most likely answer nothing is wrong its just the policies have not been included.
D Policies are created on the IAS server
E Policies are created on the IAS server

QUESTION NO: 10
You are designing a DNS infrastructure to meet the Internet name resolution requirements. What should you do?

A. Create a standard primary zone named "." on all DNS servers.
B. Create an Active Directory-integrated zone named "." on a DNS server on Los Angeles.
C. Configure all DNS servers to use forwarders.
   Specify the IP address of the DNS server at the local ISP.
D. Enable default root hints on all DNS servers.
E. Disable recursion on all DNS servers.

Answer: C
Explanation: Since all clients will use their local DNS servers for name resolution, they will need Forwarders enabled on the DNS servers for Internet Host Name resolution.

QUESTION NO: 11
You are designing the placement of the PDC emulator role to meet the business and technical requirements.
In which location should you place the PDC emulator role? (Choose all that apply)

A. Los Angeles
B. Paris
C. Sydney
D. Lisbon
E. Barcelona

Answer: A
Explanation: The reason that it is Los Angeles is because that site has the most NT 4 clients.

QUESTION NO: 12
You are designing the IP addressing scheme for the new Barcelona office.
Which network address or addresses are valid for your design? (Choose all that apply)

A. 10.10.10.0/28
B. 10.10.255.0/24
C. 131.15.0.0/24
D. 151.10.10.0/24
E. 192.168.11.0/25

Answer: A, B, E
Explanation: The question asks which addresses are VALID

A. Yes 14 hosts
B. Yes 254 hosts
C. NO Public we are using NAT
D. NO Public we are using NAT
E. Yes 126 hosts

Case Study #4, Litware, Inc

Overview
Litware, Inc., is a corporate management company that manages the internal operations for its business customers.

Internal operations include sales, accounting, and payroll.

Physical Locations
Litware, Inc., has two main offices in the following locations:

- **New York**
- **Chicago**

Each office has approximately 300 users.

The New York office has a branch office in Boston. The Boston office has approximately 100 users.

Staff in the Boston office work exclusively on projects for customers in the New York office. The Boston office has no customers of its own.

Planned Changes
As part of its initiative to streamline the IT environment and increase network security, the company has decided to implement a Windows Server 2003 Active Directory environment.

The New York office is currently in negotiations to secure Contoso, Ltd., as a new customer.

Business Processes
Litware, Inc., manages the business operations for eight business customers. For each customer, Litware, Inc., has a dedicated staff that works exclusively with that customer.

Users require access only to project data for the customers to which they have been directly assigned. The New York and Chicago offices are responsible for their own customers and maintain them separately. Each individual customer project is listed in the following table.

Customers name	Managed by
Alpine Ski House	New York
Baldwin Museum of Science	Chicago
Coho Vineyard	New York
Fabrikam, Inc.	New York

Humongous Insurance	Chicago
Lucerne Publishing	New York
Wingtip Toys	Chicago
Woodgrove Bank	Chicago

The chief information officer is the only person who is authorized to implement any changes that will impact the entire company. Roles and responsibilities in the IT department are shown in the following table.

Job title	Responsibilities	Office
Chief information officer	Approves all major IT decisions, manages the IT budget, functions as liaison between network administrators in the New York and Chicago offices.	New York
Network administrator, New York	Manages the day-to-day operations of the New York and Boston networks. Installs and manages servers and domain controllers	New York
Network administrator, Chicago	Manages the day-to-day operations of the Chicago network. Installs and manages servers and domain controllers.	Chicago
IT support	Provides day-to-day troubleshooting and maintenance of the network. This includes the installation of operating systems for end users and some server configuration. Each office has its own it support staff	New York, Chicago, Boston
Help desk	Provides telephone support for all users in all offices.	New York

Directory Services

Currently, Litware, Inc., has two Windows NT 4.0 domains configured a shown in the Existing Domain Model exhibit.

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The New York domain contains user and computer accounts for both the New York and Boston offices. The Chicago domain contains user and computer accounts for the Chicago office.

Litware, Inc., users require access only to project data for the customers to which they have been directly assigned. They also require access to internal company resources, such as a time-building application that is hosted in the New York office.

Accounting auditors and executives require access to data from all customer projects to perform quarterly reports, account reviews, and billing verifications. Account auditors and executives are located in both New York and Chicago offices, and frequently travel between offices.

Network Infrastructure
The existing network infrastructure is shown in the Existing Network Infrastructure exhibit.

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All Internet access is provided through a proxy server located in the New York office. The proxy server provides Internet name resolution on behalf of the client computers.

Currently, all servers run Windows NT Server 4.0 with the latest service pack installed. A time-billing application is installed on a Microsoft SQL Server computer named SQL1. SQL1 is managed by the network administrators in the New York office and is accessed by all Litware, Inc., users.

The company's servers, including their domain membership, physical locations, and network functions, are shown in the following table.

Server name	Domain	Office	Functions
DC1	New York	New York	PDC, DHCP server
DC2	New York	New York	BDC, WINS server
DC3	New York	Boston	BDC, DHCP server, WINS server
			Member server,

Fileserver1	New York	New York	DHCP server, file server
Fileserver2	New York	New York	Member server, WINS server, file server
Fileserver3	Chicago	Chicago	Member server DHCP server, file server
Fileserver4	Chicago	Chicago	Member server, WINS server, file server
SQL1	New York	New York	Member server, SQL Server computer, time-billing application server

Most required network resources are available locally.

All client computers in the company run Windows 2000 Professional.

Problem Statements
The following business problems must be considered:

- **Contoso, Ltd., requires that the new Active Directory infrastructure is completely in place prior to obtaining the contract.**
- **Administrative authority for network administrators in the New York and Chicago offices must remain equal.**

Chief Executive Officer
The addition of Contoso, Ltd., as a customer will likely increase annual revenue by 50 percent. Additional funds and resources have been allocated to secure this contract. All efforts should be mode to demonstrate to Contoso, Ltd., representatives that we will address all of their security concerns. This will be done on part though a migration to the Windows Server 2003 Active Directory environment.

Any short-term costs associated with a technology deployment are acceptable if they allow for growth and flexibility in the future.

Chief Information Officer
A Web-based interface for the time-billing application will be implemented in the near future. The current network administrators in the New York and Chicago offices perform their jobs well.

To reduce the burden on IT staff. trusted individuals within the organization should be identified to help reduce the IT administrative burden.

Office Worker
We want to be able to access the internal network from our home computers.

Business Drivers
The following business requirements must be considered:

- **The company wants access to the network to remain easy and intuitive. A company policy now states that user logon names and e-mail addresses should be identical. Currently, each user has an e-mail address made up of that user's first initial and last name, and an additional domain name indicating the region that manages that user's account. For example, the user Nicole Caron from the New York office has the e-mail address of ncaron@ny.litwareinc.com. The user Luis Bonifaz from Chicago has the e-mail address of lbonifaz@chi.litwareinc.com.**
- **The domain name litwareinc.com has been registered.**
- **To ensure reliability in the event of a single WAN link failure, users should continue to authenticate on the network. Additionally, all domains should be fault tolerant in the event of a single domain controller failure.**
- **VPN access will be provided to enable user access to customer data outside of regular business hours. VPN connections will be assigned through the New York office.**

Organizational Goals
The following organizational requirements must be considered:

- **As part of the negotiations between Contoso, Ltd., and the New York office, Litware, Inc., has agreed to ensure that all users who require access to Contoso, Ltd., data must have complex passwords that are a minimum of 10 characters in length.**
- **The company has also agreed that management of Contoso, Ltd., data must be completely isolated from all other Litware, Inc., data. This included the ability to manage security of Contoso, Ltd., resources. There will be no exceptions.**
- **Planning for other aspects of how Contoso, Ltd., will integrate with the Litware, Inc., environment is premature at this point. However, a quick migration solution for the existing environment must be identified to allow for this anticipated growth.**
- **Litware, Inc., account auditors and executives from the New York and Chicago offices will require limited access to Contoso, Ltd., data.**

Security
The following security requirements must be considered:

- **A new Web-based interface will be implemented for the time-billing application running on SQL1. This application will use IIS, and will require the use of IP filtering that uses computer host names for security purposes.**

- **Only authorized computers within the internal Litware, Inc., network will be given access to the time-billing application.**

Active Directory

The following Active Directory requirements must be considered:

- **The network administrators in the Chicago and New York offices will retain their current responsibilities, such as the management of user accounts, servers, and domain controllers for their regions. There should be no overlap between their administrative authority.**
- **There is a need to allow trusted individuals responsible for each customer project to manage user account information. Responsibilities will include the ability to reset passwords and define personal user information on user accounts, such as phone numbers and addresses. The trusted individuals will be allowed to manage only user accounts within the customer project to which they have been assigned.**

Network Infrastructure
The following infrastructure requirements must be considered:

- **Users in the Chicago office access Internet-based resources frequently. This Internet-related traffic accounts for most of the bandwidth used between the Chicago and New York offices. Bandwidth utilization between these two offices is currently cause for concern. Network traffic between the Chicago and New York offices must be minimized whenever possible.**
- **Because of the Boston office's data access requirements, a high level of availability and reduced latency between the New York and Boston offices is required. Bandwidth utilization between the Boston and New York offices is minimal and is not a concern in the foreseeable future.**
- **A Windows Server 2003 computer will provide VPN access to the network by using both L2TP and PPTP. Usage statistics will be gathered over time to identify which users establish VPN connections to the network, and the duration of their connections. These usage statistics will help the company track trends and plan for future growth.**
- **The network administrator in Chicago has extensive knowledge of DNS, and will manage the implementation of the DNS infrastructure for the Litware. Inc., network.**
- **The DNS structure must be secured against any unauthorized modifications, but also must be easy to maintain and manage.**

Questions, Case Study #4 Litware, Inc.

QUESTION NO: 1
You are designing a forest and domain structure to address the concerns of Contoso, Ltd., and to meet the business and technical requirements. You want to use the minimum number of domains and forests that are required.
Which domain structure should you use?

A. One forest and two domains.
B. One forest and three domains.
C. One forest and four domains.
D. Two forests and three domains.
E. Two forests and four domains.

Answer: B
Explanation: The domain name litware.com is registered. Users will login with the same name they use for email. So the other domains as stated in the case study will be ny.litware.com and chi.litware.com. One forest, 3 domains.

QUESTION NO: 2
You are designing the top-level organization unit (OU) structure to meet the administrative requirements.
What should you do?

A. Create a top-level OU named New York.
   Place all user and computer accounts from New York in the New York OU.
B. Create a top-level OU named Chicago.
   Place all user and computer accounts from Chicago in the Chicago OU.
C. Create a top-level OU named Coho.
   Place all user and computer accounts that are assigned to the Coho Vineyard customer project in the Coho OU.
D. Create a top-level OU named Sales.
   Place all user and computer accounts from the sales department in the Sales OU.

Answer: C

Explanation: In the Active Directory section of the case study: "The trusted individuals will be allowed to manage only user accounts within the customer project to which they have been assigned." So we would create OU's for each project and Delegate Authority.

QUESTION NO: 3
You are designing a security group strategy to meet the business and technical requirements.
What should you do?

A. Create one global group named G_Executives.
Make all executives user accounts members of that group.
B. Create two global groups named G_Executives and one universal group named U_Executives.
Make the two global members of U_Executives.
Make the executive user accounts members of the appropriate global group.
C. Create three global groups named G_NY_Executives and G_Chi_Executives and G_Executives.
Make G_NY_Executives and G_Chi_Executives members of G_Executives.
Make the executive user accounts members of the appropriate global group.
D. Create one domain local group named DL_Executives.
Make all executive user accounts members of that group.

Answer: B

QUESTION NO: 4
You are designing an Active Directory implementation strategy to present to executives from your company and from Contoso, Ltd.
Which implementation strategy should you use?

A. Upgrade the New York domain.
Upgrade the Chicago domain.
Create a pristine forest for Contoso, Ltd.
B. Create a pristine forest.
Upgrade the New York domain.
Upgrade the Chicago domain.
Do nothing further.
C. Create pristine forest.
Upgrade the New York domain.
Upgrade the Chicago domain.
Create a pristine forest for Contoso, Ltd.
D. Create a pristine forest.

Upgrade the New York domain.
Upgrade the Chicago domain.
Create a new child domain for Contoso, Ltd.

Answer: B
Explanation: We already have the New York and Chicago domains from NT. The litware.com domain is registered. This would be our root domain. Creating a New forest would allow for the root domain to centrally manage all other domains.

QUESTION NO: 5
You are designing the DNS infrastructure to meet the business and technical requirements.
What should you do?

A. Create an Active Directory-integrated zone on DC4.
Set the replication scope to all DNS servers in the domain.
B. Create an Active Directory-integrated zone on DC5.
Set the replications scope to all DNS servers in the forest.
C. Create an Active Directory-integrated zone on any domain controller in the forest root domain.
Set the replication scope to all domain controllers in the domain.
D. Create a standard primary zone on DC4
E. Create a standard primary zone on any domain controller in the forest root domain.

Answer: C
Explanation: They wanted a fault tolerant and secure DNS structure.

QUESTION NO: 6
You are designing a DNS implementation strategy for the network.
Which two zone types should you use? (Each correct answer presents part of the solution. Choose two)

A. Reverse lookup zones
B. Standard primary zones
C. Standard secondary zones
D. Active Directory-integrated zones

Answer: A, D
Explanation:

A: To provide ip and hostname restrictions for IIS.
D: Fault tolerant and secure.

QUESTION NO: 7
You are designing a strategy to upgrade the DHCP servers after the new Active Directory structure is in place.
Who can authorize the DHCP servers? (Choose all that apply)

A. Chief information officer
B. IT support staff in Boston
C. IT support staff in New York
D. Network administrator in Chicago
E. Network administrator in New York

Answer: A
Only Enterprise admins can authorize DHCP therfore the answer is A.

QUESTION NO: 8
You are designing the placement of the global catalog servers. You want to use the minimum number of global catalog servers that are required.
Which design should you use?

A. One global catalog server in New York.
B. Two global catalog servers in New York.
C. One global catalog server in Chicago and one global catalog server in New York.
D. Two global catalog servers in Chicago and two global catalog servers in New York.
E. One global catalog server in Chicago, one global catalog server in New York, and one global catalog server in Boston.

Answer: C

QUESTION NO: 9
You are designing an IP addressing strategy for your VPN solution.
How many public addresses should you use?

A. 1
B. 25
C. 50
D. 255

Answer: A
Explanation: Remote access will be controlled from the New York office.

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