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# 70-297

Designing a Microsoft Windows Server 2003  
Active Directory and Network Infrastructure

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Note: The answer is for reference only, you need to understand all question.

## QUESTION 1

### 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 exclusively office work 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.

### Directory Services

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

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. 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	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, timebilling 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 made to demonstrate to the 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 users first initial and last name, and an additional domain name indicating the region that manages that users 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.