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**STUDY GUIDE**

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## **Case Study #13, Hanson Brother**

### **Background**

Hanson Brother is a medium Sized manufacturing company that produces car and truck tires . The company employs 25,000 people of these employees 10,000 use computers. The company head quarters are located in St. Louis.

### **Existing Environment**

Hanson Brother has 10 factories in the United States. All Factories in the United States are connected to the St. Louis headquarters by means of 56 kbps lines. These factories are located in the following Cities:-

- Atlanta
- Chicago
- Cincinnati
- Dallas
- Detroit
- Houston
- Kansas City
- Phoenix
- St. Louis
- Toledo

Hanson Brother also has two factories in Mexico. The factories employ 2000 people. 5 hundred on these employees use computer. These factories are located in the following cities: -

- Juarez
- Mexico City

There are four engineering centers in the company. The engineering centers are located in the factories in the following cities.

- Chicago
- Detroit
- Huston
- St. Louis

Each Engineering center has its own Server that is maintained separately from the factor administration server. Each engineering network is connected to each factory network by fiber-optic cables.

The Company Headquarters build is in a separate location from the factory St. Louis. There is an IT group located at the company Headquarters in St. Louis. This group is responsible for the technical support issue that occur at Headquarters. This Group is also responsible for server issues that occur at the factories and that require the attention of a highly skilled staff member.

Each factory has its own IT group that is responsible for client computer and user issues. The IT group at each factory can set its own standards for client computers. However, the local IT group must ensure that standard applications, such as Microsoft office, are installed on every client computers.

Hanson Brothers owns a division in France that manufactures specialized racing tires. This division is named Fabrikan Inc, and it has two factories. These factories are located in the following cities.

- Nice
- Paris

Fabrikan, Inc employs 700 people in Paris and 400 people in Nice. Fabrikam Inc has its own IT groups. These is a central IT group located in Paris and a local IT group in Nice Fabrikan Inc. and Hanson Brothers do not use the same standard applications.

Each of the factories in France connects to the St. Louis headquarters by means of a dial-up connection

is unreliable.

Each location had a LAN that operates at 100 Mbps. There is a Netware 3.12 Server at each engineering center. A UNIX server located at the St. Louis headquarters manages production applications.

Some Hanson Brother and Fabrikam. Inc client computer gain access to the Unix server by using Telnet and statically assigned IP addresses.

Hanson Brothers has registered the name Hanson Brothers.com Fabrikam Inc has registered the name Fabrikam.com

### **Business Requirements**

Hanson Brother has just acquired a new division. IT is a company named Contoso Ltd. All of the approximately 10,000 employees of Contoso, Ltd has three factories located in the following cities.

- Denver
- Indianapolis
- Milwaukee

The headquarters for Contoso. Ltd are in Denver. Technical support will be provided to Contoso Ltd by the IT group inc St. Louis. Contoso ltd will follow the same policies as the rest of Hanson Brother.

Contoso Ltd has registered the name contoso.com

### **Chief information officer (CIO) interview**

Employees in the engineering department frequently travel between engineering center locations and need user accounts on every Netware server. These employees share engineering drawings with other engineers at each of the factories. We think that the existing portable computers will be able to run windows 2000. As a result, we will not need to upgrade that hardware. To make sure that we make the best use of limited resources, we do not want to load any unnecessary protocols on the portable computers.

Network usage on the WAN connections between the engineering center and the headquarters in St. Louis can be high during work hours. We want to limit replication traffic and any other traffic between those sites during the business hours of 7:00 am to 6:00 pm.

For political reasons, every country will be in its own domain. I want to keep the AD information as upto-date as possible between St. Louis and Paris. I want replication to occur hourly between those two sites. All other replication intervals should be kept on the default settings.

To keep changes to a minimum for my Administrators, I want to keep the primary DNS name server on the computer it run on today. The computers can be upgraded to the latest version of UNIX, if necessary, I do not want to have a lot of changes to the existing DNS structure, if possible. I want to have secure dynamic DNS updates where possible. Also, if the local domain controllers are unavailable, I want to make sure that the hub site at headquarters provides the login authentication. Because Contoso, Ltd., already have usable data center at its headquarters, we want to use it as a backup data center for St. Louis.

To keep the changes in the environment to a reasonable amounts, we are going to keep existing messaging platform of Microsoft Exchange 5.5 Perhaps after this upgrade is finished, we will consider Migrating to Exchange 2000

### **Technical Requirements**

Before the windows 2000 upgrade the network will be upgraded as follows.

- Denver and st.louis will be connected by a 256 kbps line.
- Factories with engineering centers will be connected to st.louis by 1.544 Mbps lines.
- Factories without engineering centers will be connected to st.louis by 256 kbps lines.
- The factories in Milwaukee and Indianapolis will be connected to Denver by 56kbps lines
- Mexico city will be connected to st.louis by a 56 kbps line.

- Mexico city will be connected to Juarez by a 56 kbps line
- Paris will be connected to st.louis by a 56 kbps line
- Nice will be connected to st.louis by a 56 kbps line
- Paris will be connected to Nice by a 256 kbps line

Fabrikam Inc want to minimize use of the connection between Paris and st.louis and between Nice and St. Louis.

Each location will be configured as a separate site

Client computer will be replaced with windows 2000 professional computers. All NetWare servers will be replaced with windows 2000 server will be replaced with windows 2000 server computers. The company wants to minimize interruptions to normal access during the upgrade. Inventory- tracking applications and distribution applications on the Unix server will be migrated to MS SQL Server. However, other production functions will remain on the Unix Server. The Unix server runs the latest Version of Bind and currently acts for all the company's DNS zones.

IT Staff at each location will continue to be responsible for client and Server computer support, However the IT group at headquarters wants & increase its control over all computers at each location. As part of this Control, the IT group at headquarters will Control the following Settings; Screen Savers, Desktop backgrounds, Password change intervals, Desktop icons, the Run command, logon scripts.

These polices will be uniform through out all divisions of the company local administrators will be able to grant divisions of the company. Local administrators will be able to grant deviations from the policies for only logon scripts and desktop icons. local administrators will not be able to create or manage.

Group Policy Objects (GPOs) but will only be able to link existing GPOs to the resources that the local administrators administer. A Small group of GPO administrator will have responsibility for creating and maintaining all GPOs.

Hanson Brother will allow Fabrikam, Inc to administer its own user and resources. Fabrikam, inc dos not want to be affected by any group policies defined by Hanson Brother administrators. Fabrikam, inc will create and maintain its own GPOs.

### Case Study #13, Hanson Brother (8 Questions)

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#### QUESTION 1

You want to allow necessary access to the Netware Server during the upgrade. What should you do?

- A. Load Gateway Service on at least one server in every site.
- B. Load Gateway Service on at least one server in each of the site that have an engineering center.
- C. Load Gateway Service on only one server in the central headquarters site.
- D. Load Gateway Service on more than one server in the central headquarters site.

Answer: B

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#### QUESTION 2

Which permission or permissions need to be assigned to the local IT staff at each factory in the United States? (Choose all that Apply)