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Demo
STUDY GUIDE

database.
Phase II: Implement Windows 2000 infrastructure for the Boston headquarters.
• Upgrade the servers in the existing Windows NT 4.0 domain to Windows 2000.
Acceptance criteria: Existing and enhanced functionality will be demonstrated by using Windows 2000 on the client computers and servers in the Boston headquarters.
Phase III: Implement a test deployment in the Washington DC airport.
1. Provide WAN connectivity to Washington, DC.
2. Test the old reservation application and the new reservation application.
3. Test the new Windows 2000 infrastructure from the Washington DC location.
4. Collect benchmark data.
5. Install and test passenger lounge functionality.
6. Test the kiosk computer.
Acceptance criteria: All aspects of the new reservation application and the new airport infrastructure will be installed and tested in the company's new Washington DC location.
Phase IV: Deploy new equipment to all airports.
1. Provide WAN connectivity to all airports.
2. Install LAN infrastructure.
3. Train users.
4. Replace existing equipment in all airports.
Acceptance criteria: All airports will be running the old mainframe reservation application on the new equipment.
Phase V: Migrate to the new reservation application.
1. Migrate data from the mainframe to Microsoft SQL Server.
2. Convert all airports.
3. Open new airports.
Acceptance criteria: Reservation data will be migrated from the mainframe and put into production with the new reservation application.

Case Study #2, BLUE SKY AIRLINES (11 **QUESTIONS**)

QUESTION 1
Which client hardware should you use for the gate machines in the airports?

A. Windows Terminal.
B. New Pentium III client computers.
C. Existing 486 client computers from corporate headquarters.
D. Existing 3270 terminals.

Answer: A.

Explanation: The gate machines at the airports will be used as a front end to the SQL Server database. Windows Terminal computers which are computers running Windows Terminal Emulation software will be used for this purpose since their hardware requirement and cost is kept low.
Incorrect answers:
B: It is not necessary to use new and expensive Pentium III computers.

C: The scenario states that the 486 client computers will be upgraded.
D: 3270 terminals cannot be used to connect the SQL Server. They are used to connect to IBM main frames.

QUESTION 2
Which component or components must you place locally on the passenger lounge network? (Choose all that apply)

A. Kiosk computer
B. Hub
C. Domain controller
D. DNS server
E. Routing and Remote access
F. Microsoft Proxy Server
G. DHCP Server

Answer: A, B.

Explanation: The passenger lounge will provide internet access to passengers. The passenger will either use their own laptops or the kiosk computer.
A: A kiosk computer in each passenger lounge to provide Internet access to customers without laptops. The kiosk computer is a requirement of this scenario.
B: The passenger lounge will provide Internet access to the kiosk computers and a maximum of 10 laptops. To share the WAN connection a hub is needed.
Incorrect answers:
C: Lounge clients will authenticate through RRAS. The domain controllers are placed in Boston.
D: Name resolution will provide through Routing and Remote Access Server using DNS server placed at Boston Headquarters.
E: The Routing and Remote Access will be placed centrally at Headquarters at Boston, not locally at passenger lounge network.
F: Internet Access will be provided from the Boston Headquarters. A Proxy Server placed locally is not called for.
G: The DHCP server will be centrally at the Boston Headquarters.

QUESTION 3
Which component or components will you need in Washington DC to complete Phase III? (Choose all that apply)

A. DHCP Server
B. WINS Server
C. Hub
D. DNS server
E. Client hardware
F. Domain controller
G. Router

Answer: C, E, and G.

Explanation: Phase III is to implement a test deployment in the Washington DC airport.
C: The physical WAN connection to the Boston Headquarters will be used by several computers. This can be accomplished by simply sharing it through a HUB.
E: Some client hardware is needed: the kiosk computer at the passenger lounge and the Windows Terminal computers which will be running the new ticketing and reservation application.
G: The Washington DC airport and all the other airports as well, will have two subnets: one LAN for employees, and one LAN for the passengers. To provide for this a router is needed.
Note: Phase III includes the following steps:
1. 1 Provide WAN connectivity to Washington DC
2. 2 Test the old reservation application and the new reservation application
3. 3 Test the new Windows 2000 infrastructure from the Washington DC location
4. 4 Collect benchmark data
5. 5 Install and test passenger lounge functionality
6. 6 Test the kiosk computer
Incorrect answers:
B: Name resolution is provided through the DNS servers located at the Boston Headquarters. WINS is not needed at the airport.
D: Name resolution is provided through the DNS servers located at the Boston Headquarters. DNS is not needed at the airport.
F: There is no need of a domain controller at the airport. Authentication will be provided through the Routing and Remote Access server located at the Boston Headquarters, where the Domain Controllers are located.

QUESTION 4
How should you design the Microsoft SQL Server environment?

A. Use one SQL Server computer
B. Use two SQL Server computers without database replication
C. Use two SQL Server computer with database replication
D. Use two clustered SQL Server computers.

Answer: D.

Explanation: Two clustered SQL Servers would provide improved performance and redundancy in case of failures.
Incorrect answers:
A: Using only one SQL Server would provide no redundancy in case of failure. This would not be acceptable.
B: Two separate SQL Servers without clustering and without replication would not share any data. This would complicate the database model, and it would not provide for redundancy in case of failure of one of SQL Server computers.
C: Database replication between two SQL server computers would be a good idea if they were located at different physical locations. In this scenario both would be placed at the central Headquarter in Boston. Replication is unnecessary and clustering should be used instead. Replication and clustering