

# 70-220

## Microsoft

### *Designing Security for a Microsoft Windows 2000 Network*

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**QUESTION: 1**

Background:

Just Togs is a clothing retailer that has been in business for eight years. Last year's total sales for all retail stores were \$240 million. After tremendous growth during the past eight years, the clothing business has slowed in its existing retail stores.

Organization: Headquarters:

Headquarters is located in San Jose, California. Headquarters employs 80 people. Twelve of these employees are in the IT department.

Retail Stores:

Retail stores are located in California. There are 50 employees at each retail store

Problem Statement:

President:

Our old business model relied on expansion by building new retail stores. However, expansion takes time, and the area served by a single retail store is limited. The only way to rapidly increase sales is to build a Web site. This site would allow customers from across the United States to buy our clothing.

IT Director:

We have three major areas of concern. First, we must ensure that the information on our Web server can be modified only with proper authorization and that the information is distributed only to those authorized. We also want to be informed when someone accesses data on the Web server. Second, information must be secure as it travels from the customer's computer to our server. We must prevent user IDs, passwords, and financial information from being intercepted as this information travels to our server. Third, information that customers download must not damage their software or violate licensing agreements. Our IT department will be expanded to include a Webmaster, who will administer the Web site, Web developers who will write code for the Web pages, and Web authors who will create the Web content. Marketing Director We have developed an ActiveX control that customers will be able to download from the Web site. Customers can use this control to display different sizes of clothing on a 3D model. They can customize the model with their measurements. They can then dress the model with our clothes to show how the clothes will fit and select the correct size. When people first view our Web site, they will be considered visitors. After visitors enter their name and address and receive an ID we will consider them customers. From our Web site, we must include a method for the customer to view our clothes and place selected items in a shopping basket. We will need a checkout function that allows the customer to enter shipping and billing information. This should include the customer's name, address, phone number, and credit card number. This information, including the customer's ID and password will be stored in a database. When customers revisit our site, we will be able to identify them automatically by their ID and password. They can then view the status of their orders or place additional orders. We should also let customers know that they are connected to the Just Togs Web site. The entire transaction should be logged. The information will be stored in a transaction-tracking file. This file will contain credit card numbers and other confidential customer information. The transaction-tracking file will allow us to bill the customer and to provide information for our customer service employees if problems arise.

Customer Service Director:

All customer service employees must have access to customer information. This includes customers' Personal information, such as name, address, phone number, and account number. Existing IT Environment:

Headquarters:

Headquarters has four Windows NT Server 4.0 computers. The remote access server is named JTRAS. The primary domain controller is named JTDC1. The other two servers are used to run applications.

Retail Stores:

Each retail store has two Windows NT Server 4.0 computers. One server controls all cash register functions. The second server handles inventory and word processing functions and has a dial-up connection to headquarters. All retail stores use TCP/IP. Each office has its own user account for dial-up access. This connection is used to transmit daily sales and merchandise orders to headquarters.

Connectivity:

All computers in the headquarters LAN are connected through a 100-Mbps connection. Each retail store is connected to headquarters through a WAN through a 56-Kbps dial-up connection.

Envisioned IT Environment:

Headquarters:

The existing Windows NT Server domain controller will be upgraded to Windows 2000 native mode, and a single forest will be created. The envisioned placement of servers is shown in the exhibit. Click the exhibit button.

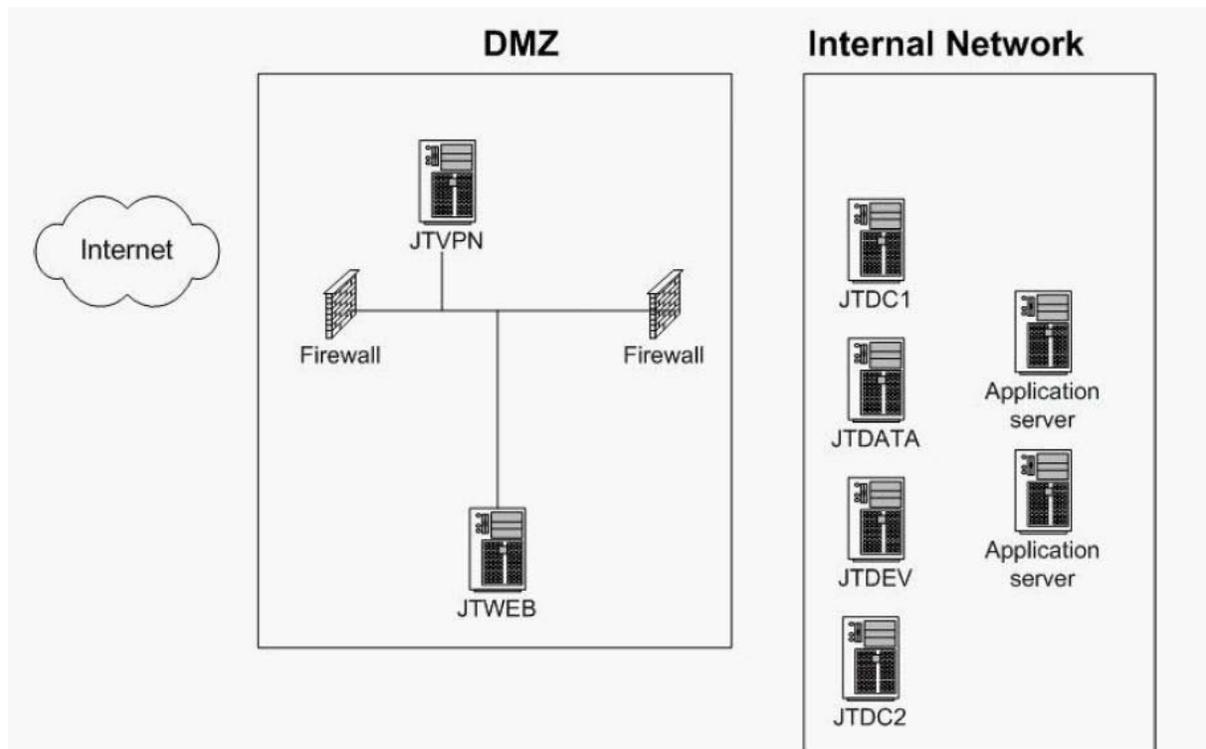
A DMZ will be set up between the public and private network. In addition, Just Togs plans to add six new Windows 2000 Server computers. A Web server named JTWEB will be multi-homed. A server named JTDEV will be used by programmers to develop the Web content. A server named JTDATA will contain all customer, inventory, and order information. This information will be stored in Microsoft SQL Server databases. A server named JTVPN will be used as the VPN server. JTDC2 will be a new domain controller. The company wants to eliminate its remote access server and allow the retail stores to submit their data over the Internet through a VPN.

Retail Stores:

The hardware and software at the retail stores will remain the same.

Connectivity:

The WAN and LAN bandwidth will remain the same.



**Answer:** Pending , Please email feedback to support@company.com

**QUESTION: 2**

Which audit policy should you use to detect possible intrusions into the Just Togs network?

- A. Success and failure audit for process tracking
- B. Success and failure audit for privilege use
- C. Success and failure audit for policy change
- D. Success and failure audit for logon events

**Answer:** D

**Explanation:**

Terminal services uses the RDP protocol to receive input from remote clients, in this scenario from clients at the Branch offices  
Terminal Services, DC1 and OWA1 are located at network at Headquarters. They would thus be connect via TCP/IP which is the default protocol used in Windows 2000 networks.  
The on-site offices would use OWA1 to access the network at Headquarters from the Internet. We would implement SSL to secure communication across the Internet.

**QUESTION: 3**

Which type of CA should you use to digitally sign the ActiveX control?

- A. Enterprise subordinate CA
- B. Third-party CA
- C. Enterprise root CA
- D. Stand-alone root CA

**Answer:** B

**Explanation:**

When an application that requires certificates runs on a public network, such as ActiveX controls that run on the internet, you should use certificates from Third-Party CAs. The use of a third-party certificate increases customer trust in the application. Consumers may not trust a small or unknown organization when that same organization issues the certificate for the Web site. Third-Party CAs are managed by companies such as Entrust or Verisign.

**QUESTION: 4**

Which audit policy should you use on JTWEB?

- A. Success and failure audit for process tracking
- B. Success and failure audit for object access
- C. Success and failure audit for logon events
- D. Success and failure audit for directory service access

**Answer:** B

**Explanation:**

According to the IT Director, Just Togs wants to ensure that the information on their Web server can be modified only with proper authorization; that the information is distributed only to authorized users; and that Just Togs be informed when someone accesses data on the Web server. The information or data on the Web server are called objects. We would thus want to Audit Object Access. By auditing successful and failed object access, entries will be recorded to a log when a user attempts to gain access to a file or folder. However, the administrator must configure which specific files and folders should be audited.

**QUESTION: 5**

Which methods should you use to identify and authenticate existing customers on the Web site?

- A. SSL, NTLM logon, and database validation
- B. SSL, anonymous logon, and CHAP
- C. SSL, NTLM logon and CHAP
- D. SSL, anonymous logon and database validation

**Answer:** D

**Explanation:**

By implementing Secure Socket Layer (SSL) protocol we can protect secure areas of the Web server as SSL encrypts all data transferred between the customer on the public network and the Web server. We have no control over which operating system the customers will use to access the web site. We therefore cannot use Kerberos authentication as Kerberos is only supported on Windows 2000 and UNIX clients. We cannot use NTLM either since it can only be used within a domain. We must use anonymous login. Furthermore, the customer's ID and password are stored in a database. We can therefore validate the customer's login credentials against the information stored in the database.

**QUESTION: 6**

How should you authenticate visitors to the Web site?

- A. Authenticate visitors to an anonymous account
- B. Authenticate visitors by requiring them to enter their user ID and password
- C. Authenticate visitors by using cookies
- D. Authenticate visitors that place an order as new or existing customers

**Answer:** A

**Explanation:**

According to the Marketing Director, when people first view the Just Togs Web site, they are considered visitors. After they enter their name and address and receive an ID they are considered customers. In other words new visitors to the Just Togs Web site would not have user credentials which Just Togs can use to authenticate them. Therefore we should allow anonymous access to the web site.

**QUESTION: 7**

Which technology should you use to securely connect the retail stores to headquarters?

- A. MS-CHAP
- B. IPsec
- C. EAP-TLS
- D. PPTP
- E. L2TP

**Answer:** D

**Explanation:**

Just Togs wants to eliminate its remote access server and allow the retail stores to submit their data over the Internet through a VPN. In addition Just Togs will be setting up a DMZ. In addition to deploying a firewall between the public network and the the company's network that the public can gain access to, which is also called an extranet, many companies also place a firewall between the company's private network and their extranet to ensure the protection of the private network if the external firewall or resources in the extranet are compromised. This configuration is referred to as a Demilitarized Zone (DMZ), perimeter network, or screened subnet. PPTP is supported by Windows 95, Windows 98, Windows NT 4.0, and Windows 2000 remote access clients. PPTP uses MPPE to provide encryption of the transmitted data. MPPE can use 40-bit, 56-bit, or 128-bit encryption keys. However, we must configure the firewall to allow the PPTP packets to pass through the firewall.

**QUESTION: 8**

Which authentication protocol should you use to secure the VPN connection from the retail stores to headquarters?

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