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QUESTION 1

Now that you have Certkiller somewhat under control, you are getting ready to go home for the night. You have made good progress on the network recently, and things seem to be going smoothly. On your way out, you stop by the CEO's office and say good night. You are told that you will be meeting in the morning, so try to get in a few minutes early.

The next morning, you get to the office 20 minutes earlier than normal, and the CEO stops by your office, "Thanks for coming in a bit early. No problem really, I just wanted to discuss with you a current need we have with the network."

"OK, go right ahead." You know the network pretty well by now, and are ready for whatever is thrown your way.

"We are hiring 5 new salespeople, and they will all be working from home or on the road. I want to be sure that the network stays safe, and that they can get access no matter where they are."

"Not a problem," you reply. "I'll get the plan for this done right away."

"Thanks a lot, if you have any questions for me, just let me know."

You are relieved that there was not a major problem and do some background work for integrating the new remote users. After talking with the CEO more, you find out that the users will be working from their home nearly all the time, with very little access from on the road locations.

The remote users are all using Windows 2000 Professional, and will be part of the domain. The CEO has purchased all the remote users brand new Compaq laptops, just like the one used in the CEO's office, and which the CEO takes home each night; complete with DVD\CD-burner drives, built-in WNICs, 17" LCD widescreen displays, oversized hard drives, a gig of memory, and fast processing. 'I wish I was on the road to get one of those,' you think.

You start planning and decide that you will implement a new VPN Server next to the Web and FTP Server. You are going to assign the remote users IP Addresses: 10.10.60.100~10.10.60.105, and will configure the systems to run Windows 2000 Professional.

Based on this information, and your knowledge of the Certkiller network up to this point, choose the best solution for the secure remote user needs: }

A. You begin with configuring the VPN server, which is running Windows 2000 Server. You create five new accounts on that system, granting each of them the Allow Virtual Private Connections right in Active Directory Users and Computers. You then configure the range of IP Addresses to provide to the clients as: 10.10.60.100 through 10.10.60.105. Next, you configure five IPSec Tunnel endpoints on the server, each to use L2TP as the protocol.

Then, you configure the clients. On each system, you configure a shortcut on the desktop to use to connect to the VPN. The shortcut is configured to create an L2TP IPSec tunnel to the VPN server. The connection itself is configured to exchange keys with the user's ISP to create a tunnel between the user's ISP endpoint and the Certkiller VPN Server.

B. To start the project, you first work on the laptops you have been given. On each laptop, you configure the system to make a single Internet connection to the user's ISP.

SC0-502

Next, you configure a shortcut on the desktop for the VPN connection. You design the connection to use L2TP, with port filtering on outbound UDP 500 and UDP 1701. When a user double-clicks the desktop icon you have it configured to make an automatic tunnel to the VPN server.

On the VPN server, you configure the system to use L2TP with port filtering on inbound UDP 500 and UDP 1701. You create a static pool of assigned IP Address reservations for the five remote clients. You configure automatic redirection on the VPN server in the routing and remote access MMC, so once the client has connected to the VPN server, he or she will automatically be redirected to the inside network, with all resources available in his or her Network Neighborhood.

C. You configure the VPN clients first, by installing the VPN High Encryption Service Pack. With this installed, you configure the clients to use RSA, with 1024-bit keys. You configure a shortcut on the desktop that automatically uses the private\public key pair to communicate with the VPN Server, regardless of where the user is locally connected.

On the VPN Server, you also install the VPN High Encryption Service Pack, and configure 1024-bit RSA encryption. You create five new user accounts, and grant them all remote access rights, using Active Directory Sites and Services. You configure the VPN service to send the server's public key to the remote users upon the request to configure the tunnel. Once the request is made, the VPN server will build the tunnel, from the server side, to the client.

D. You decide to start the configuration on the VPN clients. You create a shortcut on the desktop to connect to the VPN Server. Your design is such that the user will simply double-click the shortcut and the client will make the VPN connection to the server, using PPTP. You do not configure any filters on the VPN client systems.

On the VPN Server, you first configure routing and remote access for the new accounts and allow them to have Dial-In access. You then configure a static IP Address pool for the five remote users. Next, you configure the remote access policy to grant remote access, and you implement the following PPTP filtering:

ùInbound Protocol 47 (GRE) allowed

ùInbound TCP source port 0, destination port 1723 allowed

ùInbound TCP source port 520, destination port 520 allowed

ùOutbound Protocol 47 (GRE) allowed

ùOutbound TCP source port 1723, destination port 0 allowed

ùOutbound TCP source port 520, destination port 520 allowed

E. You choose to configure the VPN server first, by installing the VPN High Encryption Service Pack and the HISECVPN.INF built-in security template through the Security Configuration and Analysis Snap-In. Once the Service pack and template are installed, you configure five user accounts and a static pool of IP Addresses for each account.

You then configure the PPTP service on the VPN server, without using inbound or outbound filters - due to the protection of the Service Pack. You grant each user the right to dial into the server remotely, and move on to the laptops.

On each laptop, you install the VPN High Encryption Service Pack, to bring the security level of the laptops up to the same level as the VPN server. You then configure a shortcut on each desktop that controls the direct transport VPN connection from the client to the server.

Answer: D

QUESTION 2

For three years you have worked with Certkiller doing occasional network and security consulting. Certkiller is a small business that provides real estate listings and data to realtors in several of the surrounding states. The company is open for business Monday through Friday from 9 am to 6 pm, closed all evenings and weekends. Your work there has largely consisted of advice and planning, and you have been frequently disappointed by the lack of execution and follow through from the full time staff.

On Tuesday, you received a call from Certkiller 's HR director, "Hello, I'd like to inform you that Red (the full time senior network administrator) is no longer with us, and we would like to know if you are interested in working with us full time." You currently have no other main clients, so you reply, "Sure, when do you need me to get going?"

"Today," comes the fast and direct response. Too fast, you think.

"What is the urgency, why can't this wait until tomorrow?"

"Red was let go, and he was not happy about it. We are worried that he might have done something to our network on the way out."

"OK, let me get some things ready, and I'll be over there shortly."

You knew this would be messy when you came in, but you did have some advantage in that you already knew the network. You had recommended many changes in the past, none of which would be implemented by Red. While pulling together your laptop and other tools, you grab your notes which have an overview of the network: Certkiller network notes: Single Internet access point, T1, connected to Certkiller Cisco router. Router has E1 to a private web and ftp server and E0 to the LAN switch. LAN switch has four servers, four printers, and 100 client machines. All the machines are running Windows 2000. Currently, they are having their primary web site and email hosted by an ISP in Illinois.

When you get to Certkiller , the HR Director and the CEO, both of whom you already know, greet you. The CEO informs you that Red was let go due to difficult personality conflicts, among other reasons, and the termination was not cordial.

You are to sign the proper employment papers, and get right on the job. You are given the rest of the day to get setup and running, but the company is quite concerned about the security of their network. Rightly so, you think, 'If these guys had implemented even half of my recommendations this would sure be easier.' You get your equipment setup in your new oversized office space, and get started. For the time you are working here, your IP Address is 10.10.50.23 with a mask of \16.

One of your first tasks is to examine the router's configuration. You console into the router, issue a show running-config command, and get the following output:

```
MegaOne#show running-config
```

```
Building configuration...
```

```
Current configuration:
```

```
!
```

```
version 12.1
```

SC0-502

```
service udp-small-servers
service tcp-small-servers
!
hostname MegaOne
!
enable secret 5 $1$7BSK3$H394yewhJ45JAFEWU73747.
enable password clever
!
no ip name-server
no ip domain-lookup
ip routing
!
interface Ethernet0
no shutdown
ip address 2.3.57.50 255.255.255.0
no ip directed-broadcast
!
interface Ethernet1
no shutdown
ip 10.10.40.101 255.255.0.0
no ip directed-broadcast
!
interface Serial0
no shutdown
ip 1.20.30.23 255.255.255.0
no ip directed-broadcast
clockrate 1024000
bandwidth 1024
encapsulation hdlc
!
ip route 0.0.0.0 0.0.0.0 1.20.30.45
!
line console 0
exec-timeout 0 0
transport input all
line vty 0 4
password remote
login
!
end
```

After analysis of the network, you recommend that the router have a new configuration. Your goal is to make the router become part of your layered defense, and to be a system configured to help secure the network.

You talk to the CEO to get an idea of what the goals of the router should be in the new configuration. All your conversations are to go through the CEO; this is whom you also are to report to.

SC0-502

"OK, I suggest that the employees be strictly restricted to only the services that they must access on the Internet." You begin.

"I can understand that, but we have always had an open policy. I like the employees to feel comfortable, and not feel like we are watching over them all the time. Please leave the connection open so they can get to whatever they need to get to. We can always reevaluate this in an ongoing basis."

"OK, if you insist, but for the record I am opposed to that policy."

"Noted," responds the CEO, somewhat bluntly.

"All right, let's see, the private web and ftp server have to be accessed by the Internet, restricted to the accounts on the server. We will continue to use the Illinois ISP to host our main web site and to host our email. What else, is there anything else that needs to be accessed from the Internet?"

"No, I think that's it. We have a pretty simple network, we do everything in house."

"All right, we need to get a plan in place as well right away for a security policy.

Can we set something up for tomorrow?" you ask.

"Let me see, I'll get back to you later." With that the CEO leaves and you get to work.

Based on the information you have from Certkiller; knowing that router must be an integral part of the security of the organization, select the best solution to the organization's router problem: }

A. You backup the current router config to a temp location on your laptop. Friday night, you come in to build the new router configuration. Using your knowledge of the network, and your conversation with the CEO, you build and implement the following router configuration:

```
MegaOne#configure terminal
MegaOne(config)#no cdp run
MegaOne(config)#no ip source-route
MegaOne(config)#no ip finger
MegaOne(config)#access-list 175 permit tcp any 2.3.57.60 0.0.0.0 eq 80
MegaOne(config)#access-list 175 permit tcp any 2.3.57.60 0.0.0.0 eq 20
MegaOne(config)#access-list 175 permit tcp any 2.3.57.60 0.0.0.0 eq 21
MegaOne(config)#access-list 175 permit tcp any 10.10.0.0 0.0.255.255 established
MegaOne(config)#access-list 175 deny ip 0.0.0.0 255.255.255.255 any
MegaOne(config)#access-list 175 deny ip 10.0.0.0 0.255.255.255 any
MegaOne(config)#access-list 175 deny ip 127.0.0.0 0.255.255.255 any
MegaOne(config)#access-list 175 deny ip 172.16.0.0 0.0.255.255 any
MegaOne(config)#access-list 175 deny ip 192.168.0.0 0.0.255.255 any
MegaOne(config)#access-list 175 permit ip any 10.10.0.0 0.0.255.255
MegaOne(config)#access-list 175 permit udp any 10.10.0.0 0.0.255.255
MegaOne(config)#access-list 175 permit icmp any 10.10.0.0 0.0.255.255
MegaOne(config)#interface serial 0
MegaOne(config-if)#ip access-group 175 in
MegaOne(config-if)#no ip directed broadcast
MegaOne(config-if)#no ip unreachable
MegaOne(config-if)#Z
```



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