Exam Report: 5.7.8 Pt	ractice Questions	
Date: 1/21/2020 9:47:4 Time Spent: 12:18	41 am	Candidate: Garsteck, Matthew Login: mGarsteck
Overall Performan	ice	
Your Score: 80%		
		Passing Score: 80%
View results by: (	Objective Analysis   Indivi	dual Responses
<b>Individual Respons</b>	ses	
<b>▼</b> Question 1:	<u>Correct</u>	
traveling. You wan	nt to control access to the private	vate network through the internet while they are e network through a single server.
Which solution sho	ould you implement?	
OIDS		
○ IPS		
$\bigcirc$ DMZ		
→ ○ VPN con	ncentrator	
RADIUS	3	
Explanation		
to accept VPN con	nnections from individual hosts.	f a network (called a VPN <i>concentrator</i> ) is configured Hosts that are allowed to connect using the VPN VPN server or the private network.
between the private to centralize auther	e network and an untrusted netv	ed subnet, is a buffer network (or subnet) that sits work (such as the internet). A RADIUS server is used counting for multiple remote access servers. However, rvers.
activity. A <i>passive</i> prevent the attack.	IDS monitors, logs, and detects	etwork device that can detect attacks and suspicious security breaches, but takes no action to stop or ntrusion protection system or IPS) performs the rity breaches occur.
References		
	ty Pro, Section 5.7. Pro2017_v6.exm VPN_01]	
<b>▼</b> Question 2:	<u>Correct</u>	
A VPN is primarily	y used for what purpose?	
Allow the	e use of network-attached printe	ers
Allow re	emote systems to save on long-d	istance charges
Support t	the distribution of public web do	ocuments

# **Explanation**

A VPN (Virtual Private Network) is used primarily to support secured communications over an untrusted network. A VPN can be used over a local area network, across a WAN connection, over the internet, and even between a client and a server over a dial-up internet connection. All of the other items listed in this question are benefits or capabilities that are secondary to this primary purpose.

#### References

LabSim for Security Pro, Section 5.7. [All Questions SecPro2017\_v6.exm VPN\_02] **▼** Question 3: Correct Which VPN protocol typically employs IPSec as its data encryption mechanism? L2F O PPP ( L2TP PPTP

### **Explanation**

L2TP (Layer 2 Tunneling Protocol) is the VPN protocol that typically employs IPSec as its data encryption mechanism. L2TP is the recommended VPN protocol to use on dial-up VPN connections.

PPTP and PPP only support CHAP and PAP for data encryption. L2F offers no data encryption.

#### References

LabSim for Security Pro, Section 5.7. [All Questions SecPro2017\_v6.exm VPN\_03]

**▼** Question 4: Correct

Which statement best describes IPSec when used in tunnel mode?

- The identities of the communicating parties are not protected Packets are routed using the original headers, and only the payload is encrypted
- IPSec in tunnel mode may not be used for WAN traffic
- The entire data packet, including headers, is encapsulated

## **Explanation**

When using IPSec in tunnel mode, the entire data packet, including original headers, is encapsulated. New encrypted packets are created with headers indicating only the endpoint addresses. Tunneling protects the identities of the communicating parties and original packet contents. Tunneling is frequently used to secure traffic traveling across insecure public channels, such as the internet. IPSec in tunnel mode is the most common configuration for gateway-to-gateway communications.

In transport mode, routing is performed using the original headers; only the packet's payload is encrypted. Transport mode is primarily used in direct host-to-host communication outside of a dedicated IPSec gateway/firewall configuration.

#### References

LabSim for Security Pro, Section 5.7. [All Questions SecPro2017\_v6.exm VPN\_04]

**▼** Question 5: **Incorrect** 

Which IPSec subprotocol provides data encryption?

SSL AH



## **Explanation**

The Encapsulating Security Payload (ESP) protocol provides data encryption for IPSec traffic.

The Authentication Header (AH) provides message integrity through authentication, verifying that data is received unaltered from the trusted destination. AH provides no privacy and is often combined with ESP to achieve integrity and confidentiality.

#### References

LabSim for Security Pro, Section 5.7. [All Questions SecPro2017\_v6.exm VPN\_05]

**▼** Question 6: **Incorrect** 

Which is the best countermeasure for someone attempting to view your network traff	our network traffic?
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IPS
Firewall
Antivirus software




### **Explanation**

Some form of encryption, such as a Virtual Private Network (VPN), is the best defense against someone viewing your network traffic. Capturing and viewing your network traffic is called sniffing.

Sniffing is a passive activity and does not result in traffic being generated. Rather it captures existing packets on the network. For this reason, you cannot detect or prevent sniffing using methods that examine network traffic, such as a firewall, access list, or Intrusion Prevention System (IPS). Use antivirus software to scan software for malicious code.

### References

LabSim for Security Pro, Section 5.7. [All Questions SecPro2017\_v6.exm VPN\_06]

▼ Question 7: <u>Corre</u>	•	Question	7:	Correc
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PPTP (Point-to-Point Tunneling Protocol) is quickly becoming obsolete because of which VPN protocol?

	TACACS (Terminal Access Controller Access Control
	System)
	L2F (Layer 2 Forwarding Protocol)
	SLIP (Serial Line Interface Protocol)
-	<ul><li>L2TP (Layer 2 Tunneling Protocol)</li></ul>

### **Explanation**

PPTP (Point-to-Point Tunneling Protocol) is quickly becoming obsolete because of L2TP (Layer 2 Tunneling Protocol). L2TP was created by combining PPTP and L2F and adding in support for IPSec. The result is a very versatile, nearly universally interoperable VPN protocol that provides solid authentication and reliable data encryption.

#### References

LabSim for Security Pro, Section 5.7. [All Questions SecPro2017\_v6.exm VPN\_07]

**▼** Question 8: Correct

What is the primary use of tunneling?

Improving communication throughput		
Supporting private traffic through a public communication medium		
Oeploying thin clients on a network		
Protecting passwords		
Explanation		
Funneling is used primarily to support private traffic through a public communividely known form of tunneling is VPN (Virtual Private Networking). A VPN		

ication medium. The most establishes a secured communications tunnel through an insecure network connecting two systems.

Tunnels are not directly associated with password theft or protection. Tunnels provide secure communications. They usually provide less-than-optimal throughput due to the additional overhead of encryption and maintaining the communications link. Terminal services or similar products are used to support thin clients, dumb terminals, or remote sessions.

#### References

LabSim for Security Pro, Section 5.7. [All Questions SecPro2017\_v6.exm VPN\_08]

**▼** Question 9:

Correct

In addition to Authentication Header (AH), IPSec is comprised of what other service?

<b>→</b> ①	Encapsulating Security Payload (ESP)
	Advanced Encryption Standard (AES)
	Extended Authentication Protocol (EAP)
	Encryption File System (EFS)

### **Explanation**

IPSec is comprised of two services. One service is named Authentication Header (AH), and the other named Encapsulating Security Payload (ESP). AH is used primarily for authenticating the two communication partners of an IPSec link. ESP is used primarily to encrypt and secure the data transferred between IPSec partners. IPSec employs ISAKMP for encryption key management.

#### References

LabSim for Security Pro, Section 5.7. [All Questions SecPro2017\_v6.exm VPN\_09]

**▼** Question 10:

Correct

A salesperson in your organization spends most of her time traveling between customer sites. After a customer visit, she must complete various managerial tasks, such as updating your organization's order database.

Because she rarely comes back to your home office, she usually accesses the network from her notebook computer using Wi-Fi access provided by hotels, restaurants, and airports.

Many of these locations provide unencrypted public Wi-Fi access, and you are concerned that sensitive data could be exposed. To remedy this situation, you decide to configure her notebook to use a VPN when accessing the home network over an open wireless connection.

Which key steps should you take when implementing this configuration? (Select two.)

Configure the VPN connection to use IPsec
Configure the VPN connection to use PPTP
→ ✓ Configure the browser to send HTTPS requests through the VPN connection

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_	ightharpoons Configure the browser to send HTTPS requests directly to the Wi-Fi network <b>without</b> go	ing
	through the VPN connection	
	Configure the VPN connection to use MS-CHAPv2	

# **Explanation**

It is generally considered acceptable to use a VPN connection to securely transfer data over an open Wi-Fi network. As long as strong tunneling ciphers and protocols are used, the VPN provides sufficient encryption to secure the connection, even though the wireless network itself is not encrypted. It is recommended that you use IPsec or SSL to secure the VPN, as these protocols are relatively secure. You should also configure the browser's HTTPS requests to go through the VPN connection. To conserve VPN bandwidth and improve latency, many VPN solutions automatically reroute web browsing traffic through the client's default network connection instead of through the VPN tunnel. This behavior would result in HTTP/HTTPS traffic being transmitted over the unsecure open wireless network instead of though the secure VPN tunnel.

Avoid using PPTP with MS-CHAPv2 in a VPN over open wireless configuration, as these protocols are no longer considered secure.

### References

LabSim for Security Pro, Section 5.7. [All Questions SecPro2017\_v6.exm VPN\_10]