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Security+ (SY0-101) Text Sample from Study Simulation

Security+ is broken out into five separate tests, one for each domain. This was done because of the many reports of difficulty with a specific domain. This sample is from Domain 2.

8. You need to open the firewall for L2F and L2TP. You select?

- a) TCP port 22
- b) UDP port 110
- c) UDP port 1701
- d) No choice is correct

Hint: 2-1-5 L2TP-PPTP

8. C

For additional information see:

**MS PPTP uses the RAS shared secret encryption process utilizing RC4 with a 40-bit or 128-bit key. It supports PAP, CHAP and MS-CHAP. You must use MS-CHAP for an encrypted tunnel*.*

****PPTP uses TCP port 1723***

Overview and Tutorials

<http://www.iec.org/online/tutorials/vpn/topic05.html>

http://searchnetworking.techtarget.com/originalContent/0,289142,sid7_gci542380,00.html

<http://www.wkmn.com/newsite/vpn.html>

<http://www.isaserver.org/tutorials/natt2003.html>

<http://www.intranetjournal.com/foundation/tunneling.shtml>

<http://www.chebucto.ns.ca/~rakerman/port-table.html>

http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnwebtool/html/understanding_pptp.asp

16. In IPSec ESP uses IP protocol number

- a) 1
- b) 41
- c) 50
- d) 51

Hint: 2-1-7 IPSec.rtf

16. C

For additional information see:

<http://www.geocrawler.com/archives/3/256/2001/4/0/5658401/> Nmap reveals ***UDP port 500**

for ISAKMP*

<http://www.sandelman.ottawa.on.ca/linux-ipsec/html/2000/05/msg00075.html> *Open fire wall for UDP port 500*

<http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc2402.html> Authentication Header for IPv6 [RFC2402] *AH uses IP Protocol 51*

<http://www.faqs.org/rfcs/rfc2406.html> Encap Security Payload for IPv6 [RFC2406] *ESP uses IP Protocol 50*

***IPSec requires TCP/UDP ports 1293 to be enabled through firewalls*.**

***AH (Authentication Header) protocol in IPSec provides integrity data origin identification and protection against replay attacks*.**

*** ESP (Encapsulating Security Payload) in IPSec has the same features as AH plus encryption minus IP header authentication*.**

***Transport mode encrypts only the data of the packet and can be used with non-IPSec enabled routers and must have IPSec installed and configured on the client*.**

*** Tunnel mode encrypts both data and header therefore IPSec -- enabled routers must be installed and is therefore transparent to client systems*.**

***IPSec uses Diffie-Hellman the exchange to communicate Key data without requiring the actual keys travel across the network and public-key cryptography to sign the key exchange transaction, insuring integrity in origin*.**

<Note: I think was a little weak in the Security+ book explaining the differences between port numbers and IP protocol numbers. Here I rectify that with the following notation and Web link.>

"PROTOCOL NUMBERS (last updated 2003-01-13)

In the Internet Protocol version 4 (IPv4) [RFC791] there is a field, called "Protocol", to identify the next level protocol. This is an 8 bit field. In Internet Protocol version 6 (IPv6) [RFC1883] this field is called the "Next Header" field."

<http://www.iana.org/assignments/protocol-numbers>

36. When a URL begins with https:// this means?

- a) It is the HyperText Transport Protocol utilizing port 80
- b) Is an un-encrypted general communications between Web browsers and web servers
- c) It is a encrypted communications session as HTTP utilizing port 443 for SSL
- d) No choice is correct

Hint: 2-3-2 HTTP HTTPS

36. C

For additional information see:

http

***Is an un-encrypted general communications between Web browsers and web servers*.**

***It is the HyperText Transport Protocol utilizing port 80*.**

https

***It is a encrypted communications session as HTTP utilizing port 443 for SSL*.**

http://searchwebservices.techtarget.com/gDefinition/0,294236,sid26_gci214004,00.html

http://searchnetworking.techtarget.com/gDefinition/0,294236,sid7_gci214006,00.html

62. WEP uses the _____ encryption scheme.

- a) PGP
- b) RC4
- c) Skipjack
- d) Blowfish

Hint: 2-6-3 WEP

62. B

For additional information see:

<http://www.systemexperts.com/tutors/WEPDetails.pdf>

<http://www.rsasecurity.com/rsalabs/technotes/wep-fix.html>

<http://www.webopedia.com/TERM/S/SSID.html>

<http://www.webopedia.com/TERM/W/WEP.html>

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