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QUESTION 1

What is the primary use of hash (one-way) encryption in networking?

A. Signing files, for data integrity

B. Encrypting files, for data confidentiality

C. Key exchange, for user authentication

D. User authentication, for non-repudiation

Correct Answer: A

QUESTION 2

Which of the following is the primary weakness of symmetric-key encryption?

A. Data encrypted using symmetric-key encryption is subject to corruption during transport.

B. Symmetric-key encryption operates slower than asymmetric-key encryption.

C. Symmetric-key encryption does not provide the service of data confidentiality.

D. Keys created using symmetric-key encryption are difficult to distribute securely.

Correct Answer: D

QUESTION 3

At what layer of the OSI/RM does a packet filter operate?

A. Layer 1

B. Layer 3

C. Layer 5

D. Layer 7

Correct Answer: B

QUESTION 4

Consider the following series of commands from a Linux system: iptables -A input -p icmp -s 0/0 ? 0/0 -j REJECT Which explanation best describes the impact of the resulting firewall ruleset?

A. Individuals on remote networks will no longer be able to use SSH to control internal network resources.

B. Internal hosts will not be able to ping each other using ICMP.

C. Stateful multi-layer inspection has been enabled.

D. Individuals on remote networks will not be able to use ping to troubleshoot connections.

Correct Answer: D

QUESTION 5

Consider the following image of a packet capture:

No.	Time	Source	Destination	Protocol	Info
6	0.261220	209.132.176.30	192.168.15.100	FTP	Response: 220 Red Hat FTP server ready. All transfers are logged. (FTP) [no EPSV]
8	0.264720	192.168.15.100	209.132.176.30	FTP	Request: USER anonymous
10	0.363226	209.132.176.30	192.168.15.100	FTP	Response: 331 Please specify the password.
11	0.363882	192.168.15.100	209.132.176.30	FTP	Request: PASS mozilla@example.com
12	0.463158	209.132.176.30	192.168.15.100	FTP	Response: 230 Login successful.
13	0.463786	192.168.15.100	209.132.176.30	FTP	Request: SYST
14	0.563884	209.132.176.30	192.168.15.100	FTP	Response: 215 UNIX Type: L8
15	0.562500	192.168.15.100	209.132.176.30	FTP	Request: PWD
16	0.658945	209.132.176.30	192.168.15.100	FTP	Response: 257 "/"
17	0.659295	192.168.15.100	209.132.176.30	FTP	Request: TYPE I
18	0.758504	209.132.176.30	192.168.15.100	FTP	Response: 200 Switching to Binary mode.
19	0.758874	192.168.15.100	209.132.176.30	FTP	Request: PASV
20	0.854748	209.132.176.30	192.168.15.100	FTP	Response: 227 Entering Passive Mode (209,132,176,30,40,10)

▷ Frame 6 (139 bytes on wire, 139 bytes captured)
▷ Ethernet II, Src: Cisco-Li_22:57:f4 (00:13:10:22:57:f4), Dst: Dell 86:d4:5f (00:21:70:86:64:5f)
▷ Internet Protocol, Src: 209.132.176.30 (209.132.176.30), Dst: 192.168.15.100 (192.168.15.100)
▷ Transmission Control Protocol, Src Port: ftp (21), Dst Port: 46157 (46157), Seq: 1, Ack: 1, Len: 73
▷ File Transfer Protocol (FTP)

▷ **File Transfer Protocol (FTP)**

```
0000   00 21 70 86 d4 5f 00 13   10 22 57 f4 08 00 45 20   .!p.._.. ."W...E
0010   00 7d 7a e6 40 00 32 06   7b c5 d1 84 b0 1e c0 a8   .}z.@.2. {.......
0020   0f 64 00 15 b4 4d d6 7b   93 b0 d0 c9 be 9e 80 18   .d...M.{ ........
0030   05 a8 c2 76 00 00 01 01   08 0a 9e c9 bb 4b 00 0b   ...v.... .....K..
```

File: "ftp_capture.cap" 5295 Bytes ... Packets: 52 Displayed: 26 Marked: 0

Which of the following best describes the protocol used, along with its primary benefit?

A. It is a passive FTP session, which is easier for firewalls to process.

B. It is an active FTP session, which is necessary in order to support IPv6.

C. It is an extended passive FTP session, which is necessary to support IPv6.

D. It is an active FTP session, which is supported by all FTP clients.

Correct Answer: A

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