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QUESTION 1

Which of the following should be mitigated by employing proper coding techniques when developing software?

A. Distributed denial of service attacks

B. Buffer overflows

C. War driving

D. Packet sniffing

Correct Answer: B

QUESTION 2

Which of the following uses port 23 by default?

A. TELNET

B. IMAP

C. FTP

D. SNMP

Correct Answer: A

Telnet is a network protocol used on the Internet or local area networks to provide a bidirectional interactive text-oriented communication facility using a virtual terminal connection. User data is interspersed in-band with Telnet control information in an 8-bit byte oriented data connection over the Transmission Control Protocol (TCP).

QUESTION 3

Which of the following technologies is used to connect public networks using POTS lines?

A. OC3

B. OC12

C. PSTN

D. Cable

Correct Answer: C

The PSTN consists of telephone lines, fiber optic cables, microwave transmission links, cellular networks, communications satellites, and undersea telephone cables, all interconnected by switching centers, thus allowing any telephone in the world to communicate with any other

QUESTION 4

A company has been given a Class C address to be utilized for all devices. The company has several subnets and the largest subnet has 15 hosts. Which of the following represents the MINIMUM CIDR notation of this subnet mask?

A. /26

B. /27

C. /28

D. /29

Correct Answer: B

QUESTION 5

A small office client is requesting a network redesign. Both wired and wireless devices must connect to the network. All of the wireless devices can communicate using the latest standards. The building has a long courtyard in the middle with reinforced walls, which extends up through all the floors. The distance from the switch to the furthest drop is 88 meters.

Which of the following is the correct network redesign choice?

A. Fiber optic cabling is necessary due to distance limitations.

B. The wireless network should be 802.11b due to equipment limitations.

C. One WAP will be sufficient to provide wireless coverage to the floor.

D. The wired network should be run with at least CAT6 cabling.

Correct Answer: D

The Category 6 cable, also known as Cat-6, is backward compatible with the Category 5/5 e and Category 3 cable standards. It can create a high speed computer network and operate at an optimal performance if other components in the

network are compatible with gigabit speeds.

AdvantagE. Speed and Performance

The cable can handle speed performance of up to 250 MHZ. This fast performance makes it possible to use with a fast ethernet network including Gigabit Ethernet and 10-Gigabit Ethernet.

The whole generation of the Cat 6 cable was introduced to complement the Gigabit Ethernet which includes interface cards, patch panels, routers, switches, and other components which is developed to achieve a full gigabit network. Many IT

professionals realized that the Cat 6 cable provide very fast network performance and can deliver gigabit speeds.

AdvantagE. Similar Structure with Cat 5 Cable

Cat 6 cable has a similar structure to the Cat 5 and Cat 5e. The Cat 6, Cat 5 and Cat 5e cables have 8 wires that are twisted together to form four pairs. The difference is that one pair of the wires in the Cat 6 cable is kept from contacting with

others so that it can produce double the bandwidth of the Cat 5 and Cat 5e.

AdvantagE. Backward Compatible

The plug and port of the Cat 6 cable is the same as the Cat 5 and Cat 5e. Therefore, it can be plugged into any port or connection that supports both of those cables. If you use the Cat 5 port, it will not yield the full speed that it is capable of

handling. Instead, it will operate at the speed of the computer or cable. However, the speed will be acceptable.

AdvantagE. Upgradable

If upgrading to a more optimal network, the Cat 6 cable should be included in part of the upgrade. The Cat 6 cable will not operate at the full speed if other units in the network does not

support gigabit speeds. Small businesses that are starting should consider installing the Cat 6 cable since it is becoming the industry standard.

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