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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q199-Q204):

NEW QUESTION # 199

Which service does an Intrusion Detection System (IDS) provide?

Available Choices (select all choices that are correct)

- A. It blocks malicious activity in networks and computer systems.
- B. It is effective against all vulnerabilities in networks and computer systems.
- C. It is the lock on the door for networks and computer systems.
- D. It detects attempts to break into or misuse a computer system.

Answer: D

Explanation:

An intrusion detection system (IDS) is a network security tool that monitors network traffic and devices for known malicious activity, suspicious activity or security policy violations. The IDS sends alerts to IT and security teams when it detects any security risks and threats. However, an IDS does not block or prevent the malicious activity, it only detects and reports it. Therefore, an IDS is not the lock on the door for networks and computer systems, nor is it effective against all vulnerabilities in networks and computer systems. An IDS can be combined with an intrusion prevention system (IPS) to block the malicious activity in real time. References: What is Intrusion Detection Systems (IDS)? How does it Work? | Fortinet1 Intrusion Detection System (IDS) - GeeksforGeeks2 What is an intrusion detection system (IDS)? - IBM3

NEW QUESTION # 200

Which of the following technologies is no longer considered secure?

- A. Digital Encryption Standard (DES)
- **B. Secure Sockets Layer (SSL)**
- C. Advanced Encryption Standard (AES)
- D. Transport Layer Security (TLS)

Answer: B

Explanation:

Secure Sockets Layer (SSL) is no longer considered secure due to known vulnerabilities and cryptographic weaknesses. Modern standards require the use of newer versions of Transport Layer Security (TLS), and similarly, DES is deprecated for strong security. However, the best and most universally referenced example is SSL, as major industry and regulatory bodies recommend disabling SSL entirely in favor of TLS 1.2 or above.

Reference: ISA/IEC 62443-3-3:2013, Section 4.2.3.7 ("Cryptographic protections"); NIST SP 800-52 Rev. 2.

NEW QUESTION # 201

Which is the PRIMARY responsibility of the network layer of the Open Systems Interconnection (OSI) model?

Available Choices (select all choices that are correct)

- A. Handles the physics of getting a message from one device to another
- B. Provides the rules for framing, converting electrical signals to data
- C. Gives transparent transfer of data between end users
- **D. Forwards packets, including routing through intermediate routers**

Answer: D

Explanation:

The primary responsibility of the network layer of the Open Systems Interconnection (OSI) model is to forward packets, including routing through intermediate routers. The network layer is the third layer from the bottom of the OSI model, and it is responsible for maintaining the quality of the data and passing and transmitting it from its source to its destination. The network layer also assigns logical addresses to devices, such as IP addresses, and uses various routing algorithms to determine the best path for the packets to travel.

The network layer operates on packets, which are units of data that contain the source and destination addresses, as well as the payload. The network layer forwards packets from one node to another, using routers to switch packets between different networks. The network layer also handles host-to-host delivery, which means that it ensures that the packets reach the correct destination host.

The other choices are not correct because:

* B. Gives transparent transfer of data between end users. This is the responsibility of the transport layer, which is the fourth layer from the bottom of the OSI model. The transport layer provides reliable and error-free data transfer between end users, using protocols such as TCP and UDP. The transport layer operates on segments, which are units of data that contain the source and destination port numbers, as well as the payload. The transport layer also handles flow control, congestion control, and multiplexing.

* C. Provides the rules for framing, converting electrical signals to data. This is the responsibility of the data link layer, which is the second layer from the bottom of the OSI model. The data link layer provides the means for transferring data between adjacent nodes on a network, using protocols such as Ethernet and WiFi. The data link layer operates on frames, which are units of data that contain the source and destination MAC addresses, as well as the payload. The data link layer also handles error detection, error correction, and media access control.

* D. Handles the physics of getting a message from one device to another. This is the responsibility of the physical layer, which is the lowest layer of the OSI model. The physical layer provides the means for transmitting bits over a physical medium, such as copper

wire, fiber optic cable, or radio waves. The physical layer operates on bits, which are the smallest units of data that can be either 0 or 1. The physical layer also handles modulation, demodulation, encoding, decoding, and synchronization.

References:

- * The OSI Model - The 7 Layers of Networking Explained in Plain English¹
- * Network Layer in OSI Model²
- * OSI model³

NEW QUESTION # 202

Multituser accounts and shared passwords inherently carry which of the following risks?

Available Choices (select all choices that are correct)

- A. Privilege escalation
- B. Race conditions
- C. Unauthorized access
- D. Buffer overflow

Answer: A

NEW QUESTION # 203

Using the risk matrix below, what is the risk of a medium likelihood event with high consequence?

□

- A. Option C
- B. Option A
- C. Option D
- D. Option B

Answer: D

Explanation:

According to the ISA/IEC 62443 Cybersecurity Fundamentals, the risk matrix is a tool used to assess the risk of a particular event. The risk matrix is divided into three categories: likelihood, consequence, and risk. The likelihood is the probability that an event will occur, the consequence is the impact that the event will have, and the risk is the combination of the two. In this case, the risk of a medium likelihood event with high consequence is a high risk, as shown by the red cell in the matrix. References:

ISA/IEC 62443 Cybersecurity Fundamentals

[ISA/IEC 62443 Cybersecurity Certificate Program]

[Cybersecurity Library]

[Using the ISA/IEC 62443 Standard to Secure Your Control Systems]

NEW QUESTION # 204

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