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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q56-Q61):

NEW QUESTION # 56

What is the name of the missing layer in the Open Systems Interconnection (OSI) model shown below?

- A. User
- **B. Transport**
- C. Control
- D. Protocol

Answer: B

Explanation:

The Open Systems Interconnection (OSI) model is a framework that describes the functions of a networking system. The OSI model categorizes the computing functions of the different network components, outlining the rules and requirement needed to support the interoperability of the software and hardware that make up the network¹.

The OSI model consists of seven abstraction layers arranged in a top-down order: Physical, Data Link, Network, Transport, Session, Presentation, and Application. The Transport layer is the fourth layer in the OSI model, and it is responsible for ensuring reliable and efficient data transfer between the Network layer and the Session layer². The Transport layer uses protocols such as Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) to provide end-to-end communication services, such as error detection and correction, flow control, congestion control, and segmentation².

The image that you sent shows a 3D representation of the OSI model, with the layers stacked on top of each other. The missing layer is the Transport layer, which is represented by a pink box with a white arrow pointing to it. The arrow is labeled "TCP, UDP".

1: What is the OSI Model? 7 Network Layers Explained | Fortinet 2: What is OSI Model | 7 Layers Explained - GeeksforGeeks

NEW QUESTION # 57

Which of the following attacks relies on a human weakness to succeed?

Available Choices (select all choices that are correct)

- **A. Phishing**
- B. Escalation-of-privileges
- C. Denial-of-service
- D. Spoofing

Answer: A

Explanation:

Phishing is a type of cyberattack that relies on a human weakness to succeed. Phishing is the practice of sending fraudulent emails or other messages that appear to come from a legitimate source, such as a bank, a government agency, or a trusted person, in order to trick the recipient into revealing sensitive information, such as passwords, credit card numbers, or personal details, or into clicking on malicious links or attachments that may install malware or ransomware on their devices. Phishing is a common and effective way of compromising the security of industrial automation and control systems (IACS), as it can bypass technical security measures by exploiting the human factor. Phishing can also be used to gain access to the IACS network, to conduct reconnaissance, to launch further attacks, or to cause damage or disruption to the IACS operations. The ISA/IEC 62443 series of standards recognize phishing as a potential threat vector for IACS and provide guidance and best practices on how to prevent, detect, and respond to phishing attacks. Some of the recommended countermeasures include:

* Educating and training the IACS staff on how to recognize and avoid phishing emails and messages, and how to report any suspicious or malicious activity.

- * Implementing and enforcing policies and procedures for email and message security, such as using strong passwords, verifying the sender's identity, and not opening or clicking on unknown or unsolicited links or attachments.
- * Applying technical security controls, such as antivirus software, firewalls, spam filters, encryption, and authentication, to protect the IACS devices and network from phishing attacks.
- * Monitoring and auditing the IACS network and devices for any signs of phishing attacks, such as
- * anomalous or unauthorized traffic, connections, or activities, and taking appropriate actions to contain and mitigate the impact of any incidents. References:
- * ISA/IEC 62443-1-1:2009, Security for industrial automation and control systems - Part 1-1: Terminology, concepts and models¹
- * ISA/IEC 62443-2-1:2009, Security for industrial automation and control systems - Part 2-1: Establishing an industrial automation and control systems security program²
- * ISA/IEC 62443-2-4:2015, Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers³
- * ISA/IEC 62443-3-3:2013, Security for industrial automation and control systems - Part 3-3: System security requirements and security levels⁴
- * ISA/IEC 62443-4-2:2019, Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components⁵

NEW QUESTION # 58

How many maturity levels (ML) are established for evaluation criteria according to ISA/IEC 62443-2-4?

- A. 0
- **B. 1**
- C. 2
- D. 3

Answer: B

Explanation:

According to ISA/IEC 62443-2-4, which defines security requirements for IACS service providers, four maturity levels (ML1-ML4) are established as evaluation criteria for measuring the maturity of cybersecurity practices.

These are:

ML1 - Initial

ML2 - Managed

ML3 - Defined

ML4 - Improving

"This standard defines four maturity levels (ML1 through ML4) to assess the extent of cybersecurity process implementation for service providers."

- ISA/IEC 62443-2-4:2015, Clause 5.1 - Maturity Level Overview

These maturity levels are used to benchmark and certify service provider practices across different domains like patching, access control, and incident response.

References:

ISA/IEC 62443-2-4:2015 - Clause 5.1

ISA/IEC 62443-1-1 - Definitions of maturity models

NEW QUESTION # 59

Which is the implementation of PROFIBUS over Ethernet for non-safety-related communications?

Available Choices (select all choices that are correct)

- A. PROFISAFE
- **B. PROFINET**
- C. PROFIBUS DP
- D. PROFIBUS PA

Answer: B

NEW QUESTION # 60

A manufacturing plant wants to improve its risk management by categorizing all equipment and tracking their status and relationships. Which framework should it implement?

- **A. Asset models**
- B. Reference architecture
- C. Conduits
- D. Security zones

Answer: A

Explanation:

An asset model is a structured framework used to catalog, categorize, and manage assets in an industrial control environment. It allows organizations to track the status, relationships, and criticality of equipment, supporting effective risk management and security planning.

"Asset models define the components of the system and their interrelationships to support activities such as risk analysis, security monitoring, and maintenance."

- ISA/IEC 62443-1-1:2007, Clause 4.3 - Asset and Component Modeling

In contrast:

Conduits represent communication paths between zones

Security zones group assets by security requirements

Reference architectures are templates for system design-not for tracking assets

References:

ISA/IEC 62443-1-1:2007 - Asset Modeling Concepts

ISA/IEC 62443-3-2 - Risk analysis using asset models

NEW QUESTION # 61

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