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GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q51-Q56):

NEW QUESTION # 51

Which of the following can an attacker gain by obtaining PLC logic project files for a SCADA system?

- A. Details about the network architecture
- B. Schedule of vendor product releases
- C. Information about operational firewall rulesets
- D. Data regarding personnel and hiring practices

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

PLC logic project files contain the source code and configuration used to program a programmable logic controller (PLC). These files often reveal:

Control logic and operational sequences

Network addressing information

Interconnections between devices and systems

Thus, an attacker with access to these files can infer details about the network architecture (B), including how devices communicate, which protocols are used, and possibly the network topology.

Personnel data (A), firewall rulesets (C), and vendor release schedules (D) are not typically stored within PLC logic projects. The GICSP framework stresses protecting such engineering artifacts because their compromise can provide an attacker with valuable insight to facilitate targeted attacks on ICS.

Reference:

GICSP Official Study Guide, Domain: ICS Security Architecture & Design

GICSP Training Modules on PLC Security and Engineering Artifacts Protection NIST SP 800-82 Rev 2, Section 5.6 (System and Communication Protection)

NEW QUESTION # 52

How is a WirelessHART enabled device authenticated?

- A. Using a WPA2 pre-shared key entered by an administrator
- B. Using a PIN combined with the device MAC address
- C. Using a join key to send an encrypted request for the shared network key
- D. Using the vendor hard-coded master key to obtain a link key

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

WirelessHART is a secure, industrial wireless protocol widely used in process control. Its security architecture uses a layered approach including encryption and authentication mechanisms to protect communications.

WirelessHART devices authenticate by first using a join key, which is a shared secret configured in both the device and the network manager. The device uses this join key to send an encrypted request to the network manager.

Upon successful authentication, the device receives the network key, which is used for encrypting ongoing communications within the network.

This method ensures that only authorized devices can join the network and participate in secure communications.

WPA2 (A) is a Wi-Fi standard, not used in WirelessHART; the vendor hard-coded master key (C) is discouraged due to security risks; and PIN plus MAC address (D) is not a WirelessHART authentication method.

This procedure is detailed in the GICSP's ICS Security Architecture domain, highlighting wireless device authentication protocols as per WirelessHART specifications.

Reference:

GICSP Official Study Guide, Domain: ICS Security Architecture & Design

WirelessHART Specification (HART Communication Foundation)

GICSP Training Module on Wireless Security and Protocols

NEW QUESTION # 53

Which of the following is located in user mode of a typical realtime OS, but in kernel mode of a typical standard OS?

- A. Device drivers
- B. Virtual memory
- C. Process scheduling
- D. Interprocess communication

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In many real-time operating systems (RTOS), interprocess communication (IPC) mechanisms (A) operate in user mode to minimize latency and overhead.

In typical standard operating systems, IPC is usually handled by the kernel (kernel mode) for security and control.

Virtual memory (B), device drivers (C), and process scheduling (D) are typically kernel mode in both OS types.

GICSP covers these architectural differences important in ICS device security and performance.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

Real-Time Systems Literature

GICSP Training on Operating Systems in ICS

NEW QUESTION # 54

Which of the following statements best describes how a security policy should be written?

- A. It should be written in formal, legal language similar to a business contract between two parties
- **B. It should be direct, concise, and easily readable by those expected to follow it**
- C. It should be as comprehensive as possible, and cover every possible contingency in as much detail as possible

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A good security policy must be clear, concise, and easily understandable by its audience (A). This ensures compliance and effective implementation.

Writing in overly formal legal language (B) can create barriers to understanding and practical application.

Overly comprehensive policies (C) risk being ignored due to complexity.

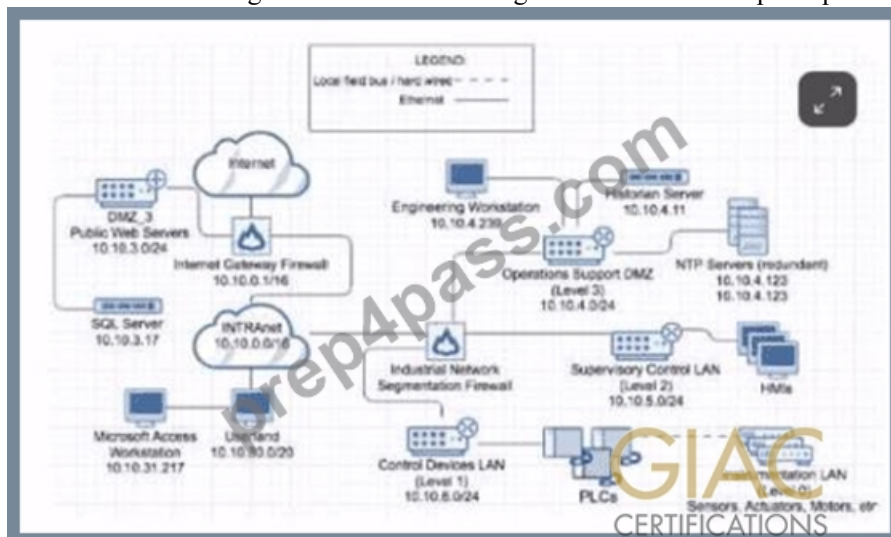
GICSP stresses that policies must balance completeness with clarity to be effective governance tools.

Reference:

GICSP Official Study Guide, Domain: ICS Security Governance & Compliance NIST SP 800-100 (Information Security Handbook) GICSP Training on Policy Development and Communication

NEW QUESTION # 55

Observe the network diagram. Which of the following hosts is intended to keep ICS process data in a database?



- A. 10.10.4.123
- B. 10.10.4.239
- C. 10.103.17
- **D. 10.10.4.11**
- E. 10.10.31.217

Answer: D

Explanation:

The host with IP 10.10.4.11 in the network diagram is labeled as the Historian Server. ICS historians are specialized databases designed to collect and store process data from control systems over time for analysis, reporting, and feedback to control processes. 10.10.31.217 is a Microsoft Access Workstation (not a database server).

10.10.4.123 represents NTP servers (time servers), not data storage.

10.10.4.239 is an Engineering Workstation.

10.103.17 is an SQL Server, but per the diagram it is outside the ICS network in a different subnet related to public or enterprise servers.

Thus, 10.10.4.11 (A) is the host intended to store ICS process data.

Reference:

GICSP Official Study Guide, Domain: ICS Data Management & Historian Security NIST SP 800-82 Rev 2, Section 6.3 (Historian

NEW QUESTION # 56

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