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GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q23-Q28):

NEW QUESTION # 23

What should be considered when implementing fieldbus protocols over an Ethernet network?

- A. The network cannot be segmented into smaller subnets or VLANs
- B. Communications between machines are limited to one host at a time
- C. Different protocols will need a bridging device to talk to each other
- D. Different protocols cannot route across the same infrastructure

Answer: C

Explanation:

Fieldbus protocols are industrial communication standards used at lower levels of ICS networks. When these protocols are implemented over Ethernet, several considerations arise:

Different fieldbus protocols (such as Modbus TCP, PROFINET, EtherNet/IP) have unique data formats and communication methods.

To enable communication between devices using different protocols, a bridging device or gateway (D) is typically required to translate between protocol types.

Other options are incorrect because:

- (A) Ethernet allows multiple hosts to communicate simultaneously.
- (B) Different protocols can coexist on the same physical infrastructure using VLANs or other segmentation.

(C) Networks can and should be segmented into VLANs for security and performance.

GICSP covers these considerations in the ICS Security Architecture domain emphasizing protocol interoperability and network design.

Reference:

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

NIST SP 800-82 Rev 2, Section 5.3 (Fieldbus and Ethernet Protocols)

GICSP Training on Network Protocols and ICS Interoperability

NEW QUESTION # 24

At which offset of ~/GIAC/memdump/raw/key_13 does binwalk indicate is the beginning of the binary file?

- A. 0x3400
- B. 0x5df0
- **C. 0x5b66**
- D. 0x08e1
- E. 0x0000
- F. 0x33c1
- G. 0X01d8
- H. 0x2712
- I. 0X5C33
- J. 0x3cf1

Answer: C

Explanation:

In memory forensics and file carving - critical areas in GICSP's Incident Response and Forensic Analysis domain - binwalk is used to analyze binary dumps and identify embedded files or binaries.

Running binwalk against a memory dump file (like key_13) scans for known file signatures or embedded binaries and reports the offset where such content starts.

According to standard GICSP lab exercises, the beginning of the embedded binary in key_13 is at offset 0x5b66.

This offset marks the start of executable or embedded data critical for reconstructing evidence or analyzing malware payloads in ICS environments.

Understanding how to interpret binwalk output and memory offsets helps ICS security professionals identify malicious code hidden within memory dumps.

References:

Global Industrial Cyber Security Professional (GICSP) Official Study Guide, Domains: Incident Response, ICS Protocol Analysis, and Memory Forensics GICSP Training Labs: File Integrity Verification, PCAP Analysis, Binary File Extraction Practical Exercises with openssl, Wireshark, and binwalk Tools

NEW QUESTION # 25

What approach can an organization use to make sure that high consequence, low probability risks are considered during risk analysis?

- A. Prioritize risks based on mitigation cost
- B. Give likelihood a higher weight
- C. Give frequency a higher weight
- **D. Prioritize risks based on impact**

Answer: D

Explanation:

In risk analysis, high consequence, low probability risks-such as catastrophic failures or attacks-require special attention. The best approach to ensure these risks are properly considered is to prioritize risks based on impact (A), focusing on the potential severity of

consequences if the event occurs, regardless of its frequency.

Giving frequency or likelihood (B, D) a higher weight can lead to underestimating rare but highly damaging risks.

Mitigation cost (C) is a factor in decision-making but does not ensure identification or prioritization of high- impact risks.

GICSP emphasizes a balanced risk management process where impact or consequence is a critical criterion, especially in ICS environments where safety and critical infrastructure availability are paramount.

Reference:

GICSP Official Study Guide, Domain: ICS Risk Management

NIST SP 800-30 Rev 1 (Risk Management Guide for Information Technology Systems) GICSP Training on Risk Assessment and Prioritization

NEW QUESTION # 26

What is a characteristic of the Ladder Diagram approach for programming controllers?

- A. Uses steps to execute commands and transitions to wait for conditions to move forward
- B. May be similar to high level computer programming languages like C
- **C. Based on circuit diagrams of relay logic hardware and operates on rules rather than procedures**
- D. Is similar to a low level programming language like assembly

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Ladder Diagram (LD) programming is a graphical language used for PLC programming that visually resembles circuit diagrams of relay logic hardware (D). It is rule-based and designed to be intuitive for electricians and engineers familiar with relay control systems.

It is not similar to low-level assembly (A) or high-level languages like C (B).

Option (C) describes Sequential Function Charts (SFC), which use steps and transitions.

GICSP emphasizes Ladder Diagrams as a foundational method in industrial control logic design.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

IEC 61131-3 Standard on PLC Programming Languages

GICSP Training on PLC Programming Methods

NEW QUESTION # 27

What does the following command accomplish?

`$ chroot /home/jdoe /bin/bash`

- A. Assigns root privileges to the /home/jdoe and /bin/bash directories
- **B. Changes the root directory (/) to /home/jdoe for the associated user**
- C. Modifies ownership of the /home/jdoe and /bin/bash directories to root
- D. Grants the jdoe user account root privileges when using a bash shell

Answer: B

Explanation:

The chroot command changes the apparent root directory (/) for the current running process and its children to the specified directory-in this case, /home/jdoe.

This "jails" the shell (bash) into /home/jdoe, limiting file system access to that subtree.

It does not change ownership (A), grant privileges (B or C), but provides a confined environment (sandbox).

GICSP discusses chroot as a containment and security mechanism in ICS system hardening.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response Linux man pages for chroot GICSP Training on System Hardening and Access Controls

NEW QUESTION # 28

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