

# GICSP Training Materials: Global Industrial Cyber Security Professional (GICSP) & GICSP Exam Preparatory



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## GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q21-Q26):

### NEW QUESTION # 21

An attacker has a goal of obtaining information stored in an ICS. Why might the attacker focus his efforts on the operating system rather than the ICS application?

- A. Control of the operating system offers access to applications running on it

- B. The operating system will have fewer vulnerabilities than the ICS application
- C. Organizations generally do not define a role or responsibility for dealing with operating systems, leaving them neglected and vulnerable
- D. The ICS is more likely to have vendor-provided security hardening guidance than the operating system will

**Answer: A**

Explanation:

In ICS environments, attackers often target the operating system (OS) rather than the ICS application itself because the OS controls and supports the applications running on it. Gaining control over the OS gives attackers the capability to:

Access all files and data processed by applications

Install malware or tools that operate beneath or alongside ICS applications Manipulate or intercept data without detection While hardening guidance may exist for both OS and applications, the OS is a more fundamental layer and usually presents a broader attack surface. Therefore, controlling the OS (D) effectively provides access to all applications, making it a strategic target for attackers seeking sensitive information.

This approach aligns with the GICSP's focus on understanding layered defenses and attack vectors at all levels of the ICS stack, including the operating system.

Reference:

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

NIST SP 800-82 Rev 2, Section 5.6 (System and Communication Protection) GICSP Training Module on OS Hardening and ICS Attack Vectors

## NEW QUESTION # 22

Which command can be used on a Linux system to search a file for a string of data and return the results to the screen?

- A. **grep**
- B. cat
- C. tail
- D. type

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The grep command (C) is a powerful and widely used Linux utility for searching text or data patterns within files and returning matching lines to the screen. It supports regular expressions, making it flexible for complex searches.

type (A) displays the kind of command (shell builtin, file, alias).

cat (B) outputs entire file contents but does not search.

tail (D) shows the last lines of a file but also does not perform searches.

In ICS security and forensic investigations (covered in GICSP), grep is essential for quickly finding relevant log entries or configuration data.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response Linux Command Line Basics (Referenced in GICSP) GICSP Training on Incident Response and Forensics Tools

## NEW QUESTION # 23

An attacker writes a program that enters a large number of characters into the password field of a website, followed by a command. The website gave him administrative access, even though he did not use a valid username or password.

What is the name of this attack?

- A. Cross-site scripting
- B. Fuzzing
- C. Man-in-the-Middle
- D. **Buffer overflow**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

This is a classic description of a buffer overflow attack (B), where an attacker inputs excessive data into a field to overwrite memory and inject commands, potentially gaining unauthorized access.

(A) Man-in-the-Middle intercepts communications but doesn't involve input fields directly.

(C) Cross-site scripting involves injecting malicious scripts into web pages viewed by other users.

(D) Fuzzing is a testing technique, not an attack that grants access.

GICSP highlights buffer overflows as a critical vulnerability affecting ICS software and web interfaces.

#### NEW QUESTION # 24

Which of the following types of network devices sends traffic only to the intended recipient node?

- A. Ethernet switch
- B. Wireless bridge
- C. Ethernet hub
- D. Wireless access point

**Answer: A**

Explanation:

An Ethernet switch (C) is a network device that learns the MAC addresses of connected devices and forwards packets only to the port associated with the destination node, reducing unnecessary traffic and improving security and efficiency.

An Ethernet hub (A) broadcasts incoming packets to all ports, not selectively.

A wireless access point (B) broadcasts signals to multiple wireless clients within range.

A wireless bridge (D) connects two network segments wirelessly but forwards traffic according to device types, not necessarily selectively to single nodes.

GICSP's ICS network segmentation and architecture domain underline the use of switches to limit broadcast traffic and reduce attack surfaces.

Reference:

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

NIST SP 800-82 Rev 2, Section 5.5 (Network Architecture)

GICSP Training on Network Devices and Traffic Management

#### NEW QUESTION # 25

A brewer uses a local HMI to communicate with a controller that opens a pump to move the work from the boil kettle to the fermenter. What level of the Purdue model would the controller be considered?

- A. Level 4
- B. Level 2
- C. Level 1
- D. Level 0
- E. Level 3

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Purdue Enterprise Reference Architecture (PERA) model, commonly used in ICS security frameworks like GICSP, segments industrial control systems into hierarchical levels that correspond to the function and control of devices:

Level 0: Physical process (sensors and actuators directly interacting with the process) Level 1: Basic control level (controllers such as PLCs or DCS controllers that execute control logic and command actuators) Level 2: Supervisory control (HMIs, SCADA supervisory systems that interface with controllers) Level 3: Operations management (Manufacturing Execution Systems, batch control, production scheduling) Level 4: Enterprise level (business systems, ERP, corporate IT) In this scenario, the controller opening the pump is a device executing control logic directly on the process, placing it at Level 1. The local HMI used to communicate with the controller is at Level 2, supervising and providing operator interface.

This classification is foundational in GICSP's ICS Fundamentals and Architecture domain, which emphasizes clear understanding of network segmentation and device role for security zoning.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

Purdue Model description in IEC 62443 and NIST SP 800-82

GICSP Training materials on Purdue Model and Network Segmentation

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