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GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q66-Q71):

NEW QUESTION # 66

What does the following command accomplish?

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

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

Answer: C

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:

NEW QUESTION # 67

In the context of ICS the process of fuzzing a device is described as which of the following?

- A. Providing invalid, unexpected, or random data as inputs
- B. Monitoring device performance in harsh environmental conditions
- C. Brute force password attacks against default accounts
- D. Monitoring device performance in varying power conditions
- E. Launching all known exploits at the device in a randomized sequence

Answer: A

Explanation:

Fuzzing (C) is a security testing technique that involves sending invalid, unexpected, or random inputs to a device or application to discover vulnerabilities like buffer overflows or crashes.

Brute force attacks (A) target authentication, not input validation.

Launching known exploits (B) is penetration testing but not fuzzing.

(D) and (E) describe environmental or stress testing.

GICSP highlights fuzzing as a proactive testing method to uncover ICS device vulnerabilities.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response OWASP Fuzzing Resources GICSP Training on Vulnerability Assessment Techniques

NEW QUESTION # 68

For application-aware firewalls filtering traffic between trust zones, which of the following policies should be applied to a packet that doesn't match an existing rule?

- A. Application deny list
- B. Default deny
- C. Default alert
- D. Application allow list

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In the context of Industrial Control Systems (ICS) and OT network security, the principle of least privilege and explicit access control is fundamental for protecting critical infrastructure assets. According to the GICSP framework, when using application-aware firewalls between different trust zones (e.g., corporate network to OT network), any traffic that does not explicitly match a defined rule should be blocked by default. This is referred to as the "default deny" policy.

* Default deny means that unless traffic is explicitly allowed by firewall rules, it should be denied. This ensures that no unknown or unauthorized packets traverse trust boundaries, reducing the attack surface significantly.

* The default alert option (A) is useful for monitoring but does not prevent unauthorized access, so it's insufficient as a security control.

* Application deny list (C) and application allow list (D) refer to sets of permitted or denied applications, but the firewall still needs an overarching policy to handle unmatched packets; that policy must be deny for safety.

This approach is emphasized in the ICS Security Architecture and Network Segmentation domain of GICSP, reinforcing that all unknown or unexpected network traffic should be blocked unless explicitly permitted by policy. This aligns with NIST SP 800-82 Rev 2 guidance on ICS security, which GICSP incorporates.

Reference:

Global Industrial Cyber Security Professional (GICSP) Official Study Guide, Domain: ICS Security Architecture & Design NIST SP 800-82 Rev 2: Guide to Industrial Control Systems (ICS) Security, Section 5.5 (Network Architecture) GICSP Training Materials, Firewall & Network Segmentation Best Practices Module

NEW QUESTION # 69

What is a recommended practice for configuring enforcement boundary devices in an ICS control network?

- A. Enable full packet collection for all allowed and denied traffic rules on next-generation firewalls
- B. Create a rule which drops inbound packets containing a source address from within the protected network
- C. Create one rule for each authorized conversation in a stateless access control list
- D. Use an egress policy that allows everything out except for that which is explicitly denied

Answer: A

Explanation:

Enforcement boundary devices like firewalls play a critical role in ICS network security. A best practice is to:

Enable full packet collection for all allowed and denied traffic (B) on next-generation firewalls. This facilitates deep inspection, detailed logging, and auditing, which are vital for detecting anomalous or malicious activity.

Other options are less effective or counterproductive:

(A) Dropping inbound packets with source addresses from the protected network is generally illogical and may disrupt normal traffic.

(C) Stateless access control is less secure and less manageable than stateful inspection.

(D) Default allow egress policies increase risk by permitting unnecessary outbound traffic.

GICSP stresses detailed logging and stateful inspection as core security controls for enforcement points.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response NIST SP 800-82 Rev 2, Section 5.5 (Network Security and Firewalls) GICSP Training on Network Boundary Protection

NEW QUESTION # 70

What information can be found by dumping data at rest from a Purdue Enterprise Reference Architecture level 0/1 device?

- A. Static cryptographic keys
- B. Firmware on read-protected chip
- C. Frequency-hopping algorithm that the RF chip will use

Answer: A

Explanation:

Level 0 and Level 1 devices in the Purdue model include sensors, actuators, and controllers such as PLCs.

Dumping data at rest from these devices often reveals static cryptographic keys (C) stored within device memory or configuration files.

Firmware on read-protected chips (A) is generally inaccessible without specialized hardware attacks.

Frequency-hopping algorithms (B) pertain to wireless devices and are typically secured and not directly stored in the general memory dump.

GICSP stresses the risk of key compromise from device data extraction as it can enable unauthorized control or decryption of communications.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response Purdue Model and ICS Device Security

GICSP Training on Device-Level Security Threats

NEW QUESTION # 71

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