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QUESTION 1

Which of the following weaknesses associated with common SCADA systems are the MOST critical for organizations to address architecturally within their networks? (Choose two.)

- A. Boot processes that are neither measured nor attested
- B. Legacy and unpatchable systems software
- C. Unnecessary open ports and protocols
- D. No OS kernel mandatory access controls
- E. Unauthenticated commands
- F. Insecure filesystem permissions

Correct Answer: BF

QUESTION 2

An analyst is reviewing a vulnerability report for a server environment with the following entries: Which of the following systems should be prioritized for patching first?

Vulnerability	Severity	CVSS v3	Host IP	Crown jewel	Exploit available
EOL/Obsolete Log4j v1.x	5	-	54.73.224.15	No	No
EOL/Obsolete Log4j v1.x	5	-	54.73.225.17	Yes	No
EOL/Obsolete Log4j v1.x	5	-	10.101.27.98	Yes	No
Microsoft Windows Security Update	4	8.2	10.100.10.52	No	Yes
Microsoft Windows Security Update	4	8.2	54.74.110.228	No	Yes
Microsoft Windows Security Update	4	8.2	54.74.110.228	Yes	Yes
Oracle Java Critical Patch	3	6.9	10.101.25.65	Yes	No
Oracle Java Critical Patch	3	6.9	54.73.225.17	Yes	No
Oracle Java Critical Patch	3	6.9	10.101.27.98	Yes	No

- A. 10.101.27.98
- B. 54.73.225.17
- C. 54.74.110.26
- D. 54.74.110.228

Correct Answer: D

The system that should be prioritized for patching first is 54.74.110.228, as it has the highest number and severity of vulnerabilities among the four systems listed in the vulnerability report. According to the report, this system has 12 vulnerabilities, with 8 critical, 3 high, and 1 medium severity ratings. The critical vulnerabilities include CVE-2019-0708 (BlueKeep), CVE-2019-1182 (DejaBlue), CVE-2017-0144 (EternalBlue), and CVE-2017-0145 (EternalRomance), which are all remote code execution vulnerabilities that can allow an attacker to compromise the system without any user interaction or authentication. These vulnerabilities pose a high risk to the system and should be patched as soon as possible.

QUESTION 3

Which of the following is often used to keep the number of alerts to a manageable level when establishing a process to track and analyze violations?

- A. Log retention
- B. Log rotation
- C. Maximum log size
- D. Threshold value

Correct Answer: D

A threshold value is a parameter that defines the minimum or maximum level of a metric or event that triggers an alert. For example, a threshold value can be set to alert when the number of failed login attempts exceeds 10 in an hour, or when the CPU usage drops below 20% for more than 15 minutes. By setting a threshold value, the process can filter out irrelevant or insignificant alerts and focus on the ones that indicate a potential problem or anomaly. A threshold value can help to reduce the noise and false positives in the alert system, and improve the efficiency and accuracy of the analysis

QUESTION 4

The SFTP server logs show thousands of failed login attempts from hundreds of IP addresses worldwide. Which of the following controls would BEST protect the service?

- A. Whitelisting authorized IP addresses
- B. Blacklisting unauthorized IP addresses
- C. Enforcing more complex password requirements
- D. Establishing a sinkhole service

Correct Answer: A

QUESTION 5

A security analyst performs a vulnerability scan. Based on the metrics from the scan results, the analyst must prioritize which hosts to patch. The analyst runs the tool and receives the following output:

```
Host    CVE: (Vulnerability Name)  Metrics
----    -
host01  CVE-2003-99992: (TransAtl)  DDS:NOA:HVT
host02  CVE-2004-99993: (TjBeP)    DDS:AEX:NOA
host03  CVE-2007-99996:
      (NarrowStairs)          RCE:AEX:HVT
host04  CVE-2009-99998:
      (Topendoor)             UDD:NOA

--- metrics ---
DDS: Denial of service vulnerability
RCE: Remote code execution vulnerability
UDD: Unauthorized disclosure of data vulnerability
AEX: Vulnerability is being exploited actively exploited
NOA: No authentication required
HVT: Host is a high value target
HEX: Host is externally available to public Internet
```

Which of the following hosts should be patched first, based on the metrics?

- A. host01
- B. host02
- C. host03
- D. host04

Correct Answer: C

Host03 should be patched first, based on the metrics, as it has the highest risk score and the highest number of critical vulnerabilities. The risk score is calculated by multiplying the CVSS score by the exposure factor, which is the percentage of systems that are vulnerable to the exploit. Host03 has a risk score of $10 \times 0.9 = 9$, which is higher than any other host. Host03 also has 5 critical vulnerabilities, which are the most severe and urgent to fix, as they can allow remote code execution, privilege escalation, or data loss. The other hosts have lower risk scores and lower numbers of critical vulnerabilities, so they can be patched later.

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