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CompTIA CASP+ CAS-004

645 Practice Test Questions

in PDF Format with Verified Answers

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Often candidates fail the CAS-004 exam due to the fact that they do not know the tactics of attempting the CompTIA Advanced Security Practitioner (CASP+) Exam (CAS-004) exam in an ideal way. The decisive part is often effective time management. Some CompTIA CAS-004 Exam Questions demand more attention than others, which disturbs the time allotted to each topic. The best way to counter them is to use an updated CAS-004 Dumps.

CompTIA CAS-004 (CompTIA Advanced Security Practitioner (CASP+)) Certification Exam is an advanced certification that validates the skills and knowledge required for advanced security roles. It is designed for IT professionals with a minimum of 10 years of IT experience, including at least 5 years of hands-on technical security experience. CompTIA Advanced Security Practitioner (CASP+) Exam certification provides a comprehensive understanding of advanced security concepts and validates the ability to implement and manage security solutions that are effective against advanced threats.

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CompTIA Advanced Security Practitioner (CASP+) Exam Sample Questions (Q421-Q426):

NEW QUESTION # 421

A company is experiencing a large number of attempted network-based attacks against its online store. To determine the best course of action, a security analyst reviews the following logs.

```
10:12:04 192.168.1.1 GET https://comptia.org/products?category='-- 200
10:12:05 192.168.1.1 POST https://comptia.org/products?feedback=%3cscript%3c -- 200
```

Which of the following should the company do NEXT to mitigate the risk of a compromise from these attacks?

- A. Perform parameterized queries.
- **B. Restrict HTTP methods.**
- C. Validate content types.
- D. Implement input sanitization.

Answer: B

Explanation:

Restricting HTTP methods can mitigate the risk of network-based attacks against an online store by limiting the types of HTTP requests that the server will accept, thus reducing the attack surface. This is a common method to prevent web-based attacks such as Cross-Site Scripting (XSS) and SQL Injection.

NEW QUESTION # 422

A security engineer needs to review the configurations of several devices on the network to meet the following requirements:

* The PostgreSQL server must only allow connectivity in the 10.1.2.0/24 subnet.

* The SSH daemon on the database server must be configured to listen to port 4022.

* The SSH daemon must only accept connections from a single workstation.

* All host-based firewalls must be disabled on all workstations.

* All devices must have the latest updates from within the past eight days.

* All HDDs must be configured to secure data at rest.

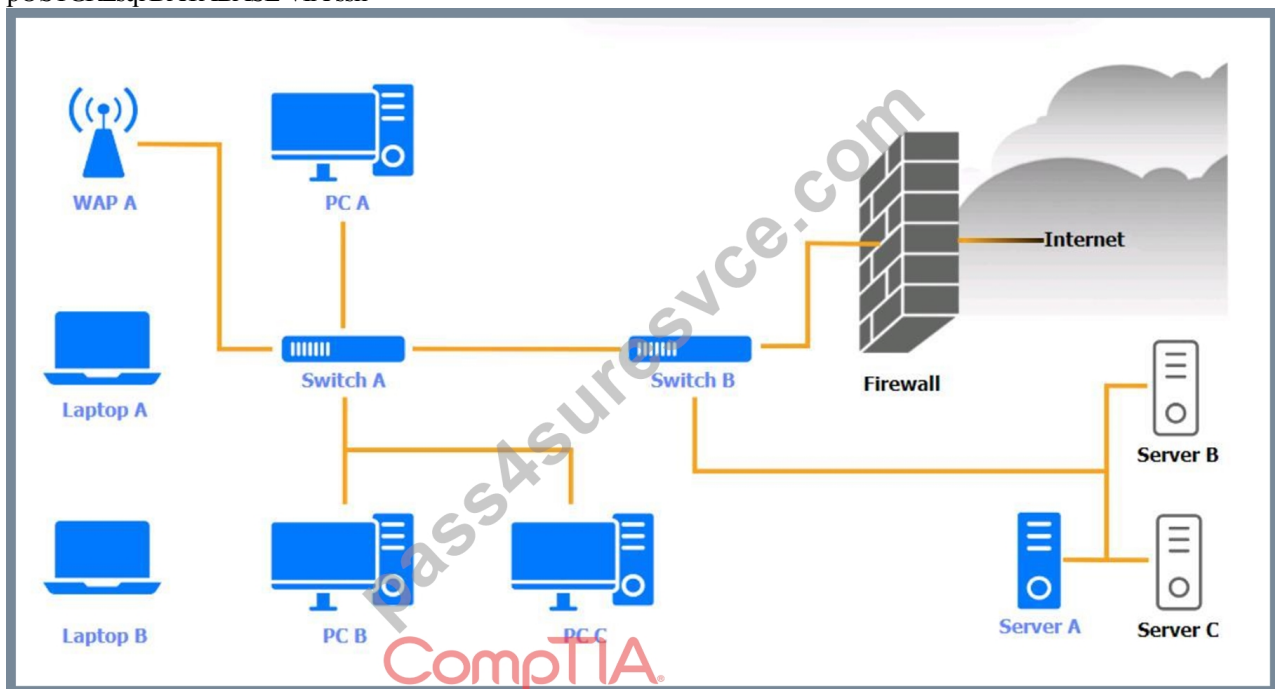
* Cleartext services are not allowed.

* All devices must be hardened when possible.

Instructions:

Click on the various workstations and network devices to review the posture assessment results. Remediate any possible issues or indicate that no issue is found.

Click on Server A to review output data. Select commands in the appropriate tab to remediate connectivity problems to the PostgreSQL DATABASE VIA ssh



WAP A

| WAP A | | |
|-----------------------|-----------------------------------|--|
| Finding | Status | Remediation |
| Firmware | Updated 5 days ago | <input checked="" type="checkbox"/> No issue |
| Top 5 used ports | 22, 80, 443, 123, 53 | <input type="checkbox"/> Patch management |
| SSID broadcast | Disabled | <input type="checkbox"/> Update endpoint protection |
| Default admin account | Default password has been changed | <input type="checkbox"/> Enabled disk encryption |
| HTTP server | Disabled | <input type="checkbox"/> Enable port security on network device |
| | | <input type="checkbox"/> Enable password complexity |
| | | <input type="checkbox"/> Enable host-based firewall to block all traffic |
| | | <input type="checkbox"/> Antivirus scan |
| | | <input type="checkbox"/> Change default administrative password |
| | | <input type="checkbox"/> Disable unneeded services |
| | | <input type="checkbox"/> Enable all connectivity settings |


PC A

| PC A | | |
|---------------------|--|--|
| OS updates | Updated 2 days ago, last checked 5:08 a.m. | <input checked="" type="checkbox"/> No issue |
| Endpoint protection | Last checked 6:11 a.m. | <input type="checkbox"/> Patch management |
| Browser version | 91.2.5 (7/31/2023) | <input type="checkbox"/> Update endpoint protection |
| Disk encryption | Enabled | <input type="checkbox"/> Enabled disk encryption |
| Password complexity | Enabled | <input type="checkbox"/> Enable port security on network device |
| Host-based firewall | Disabled | <input type="checkbox"/> Enable password complexity |
| CPU & memory usage | Normal | <input type="checkbox"/> Enable host-based firewall to block all traffic |
| Screensaver | Enabled | <input type="checkbox"/> Antivirus scan |
| Top 5 used ports | 22, 80, 443, 389, 53 | <input type="checkbox"/> Change default administrative password |
| Wireless | Disabled | <input type="checkbox"/> Disable unneeded services |
| | | <input type="checkbox"/> Enable all connectivity settings |

Laptop A

| Laptop A | | |  |
|---------------------|--|--|---|
| OS updates | Updated 3 days ago, last checked 6:08 a.m. | <input checked="" type="checkbox"/> No issue | |
| Endpoint protection | Last checked in 6:13 a.m. | <input type="checkbox"/> Patch management | |
| Browser version | 91.2.5 (7/31/2023) | <input type="checkbox"/> Update endpoint protection | |
| Disk encryption | Enabled | <input type="checkbox"/> Enabled disk encryption | |
| Password complexity | Enabled | <input type="checkbox"/> Enable port security on network device | |
| Host-based firewall | Disabled | <input type="checkbox"/> Enable password complexity | |
| CPU & memory usage | Medium | <input type="checkbox"/> Enable host-based firewall to block all traffic | |
| Screensaver | Enabled | <input type="checkbox"/> Antivirus scan | |
| Top 5 used ports | 22, 80, 443, 389, 53 | <input type="checkbox"/> Change default administrative password | |
| Wireless | Enabled | <input type="checkbox"/> Disable unneeded services | |
| | | <input type="checkbox"/> Enable all connectivity settings | |

Switch A

| Switch A | | |  |
|---------------------------------|---------------------------------------|--|---|
| Firmware | Updated 7 days ago | <input checked="" type="checkbox"/> No issue | |
| Top 5 used ports | 22, 80, 443, 123, 53 | <input type="checkbox"/> Patch management | |
| Interfaces disabled (out of 12) | 4 | <input type="checkbox"/> Update endpoint protection | |
| Default admin account | Default password has not been changed | <input type="checkbox"/> Enabled disk encryption | |
| HTTP server | Disabled | <input type="checkbox"/> Enable port security on network device | |
| | | <input type="checkbox"/> Enable password complexity | |
| | | <input type="checkbox"/> Enable host-based firewall to block all traffic | |
| | | <input type="checkbox"/> Antivirus scan | |
| | | <input type="checkbox"/> Change default administrative password | |
| | | <input type="checkbox"/> Disable unneeded services | |
| | | <input type="checkbox"/> Enable all connectivity settings | |

Switch B:

| Switch B | | | |
|--------------------------------|-----------------------------------|--|--|
| Firmware | Updated 7 days ago | <input checked="" type="checkbox"/> No issue | |
| Top 5 used ports | 22, 80, 443, 123, 53 | <input type="checkbox"/> Patch management | |
| Interfaces disabled (out of 6) | 1 | <input type="checkbox"/> Update endpoint protection | |
| Default admin account | Default password has been changed | <input type="checkbox"/> Enabled disk encryption | |
| HTTP server | Disabled | <input type="checkbox"/> Enable port security on network device | |
| | | <input type="checkbox"/> Enable password complexity | |
| | | <input type="checkbox"/> Enable host-based firewall to block all traffic | |
| | | <input type="checkbox"/> Antivirus scan | |
| | | <input type="checkbox"/> Change default administrative password | |
| | | <input type="checkbox"/> Disable unneeded services | |
| | | <input type="checkbox"/> Enable all connectivity settings | |

Laptop B

| Laptop B | | | |
|---------------------|--|--|--|
| OS updates | Updated 3 days ago, last checked 8:08 a.m. | <input checked="" type="checkbox"/> No issue | |
| Endpoint protection | Last checked in 8:11 a.m. | <input type="checkbox"/> Patch management | |
| Browser version | 81.2.5 (7/31/2023) | <input type="checkbox"/> Update endpoint protection | |
| Disk encryption | Disabled | <input type="checkbox"/> Enabled disk encryption | |
| Password Complexity | Enabled | <input type="checkbox"/> Enable port security on network device | |
| Host-based firewall | Disabled | <input type="checkbox"/> Enable password complexity | |
| CPU & memory usage | Normal | <input type="checkbox"/> Enable host-based firewall to block all traffic | |
| Screensaver | Enabled | <input type="checkbox"/> Antivirus scan | |
| Top 5 used ports | 22, 80, 443, 8080, 53 | <input type="checkbox"/> Change default administrative password | |
| Wireless | Enabled | <input type="checkbox"/> Disable unneeded services | |
| | | <input type="checkbox"/> Enable all connectivity settings | |

PC B

| PC B | | |
|---------------------|--|--|
| OS updates | Updated 2 days ago, last checked 5:10 a.m. | <input checked="" type="checkbox"/> No issue |
| Endpoint protection | Last checked in 6:13 a.m. | <input type="checkbox"/> Patch management |
| Browser version | 91.2.5 (7/31/2023) | <input type="checkbox"/> Update endpoint protection |
| Disk encryption | Enabled | <input type="checkbox"/> Enabled disk encryption |
| Password complexity | Enabled | <input type="checkbox"/> Enable port security on network device |
| Host-based firewall | Disabled | <input type="checkbox"/> Enable password complexity |
| CPU & memory usage | Medium | <input type="checkbox"/> Enable host-based firewall to block all traffic |
| Screensaver | Enabled | <input type="checkbox"/> Antivirus scan |
| Top 5 used ports | 22, 80, 443, 389, 53 | <input type="checkbox"/> Change default administrative password |
| Wireless | Disabled | <input type="checkbox"/> Disable unneeded services |
| | | <input type="checkbox"/> Enable all connectivity settings |

PC C

| PC C | | |
|---------------------|------------------------|--|
| OS updates | Updated 22 days ago | <input checked="" type="checkbox"/> No issue |
| Endpoint protection | Last checked 6:19 a.m. | <input type="checkbox"/> Patch management |
| Browser version | 91.2.5 (7/18/2022) | <input type="checkbox"/> Update endpoint protection |
| Disk encryption | Enabled | <input type="checkbox"/> Enabled disk encryption |
| Password complexity | Enabled | <input type="checkbox"/> Enable port security on network device |
| Host-based firewall | Disabled | <input type="checkbox"/> Enable password complexity |
| CPU & memory usage | High | <input type="checkbox"/> Enable host-based firewall to block all traffic |
| Screensaver | Enabled | <input type="checkbox"/> Antivirus scan |
| Top 5 used ports | 22, 80, 443, 23, 53 | <input type="checkbox"/> Change default administrative password |
| Wireless | Disabled | <input type="checkbox"/> Disable unneeded services |
| | | <input type="checkbox"/> Enable all connectivity settings |

Server A

Nmap

IP Tables

Nmap scan report for psql-srvr.acme.com
Host is up, received arp-response (0.00040s latency).

...

| PORT | STATE | SERVICE | VERSION |
|----------|--------|------------|-------------|
| 22/tcp | open | ssh | OpenSSH 8.4 |
| 80/tcp | closed | http | |
| 443/tcp | closed | ssl/http | |
| 1433/tcp | closed | mssql | |
| 5432/tcp | closed | postgresql | |

...

1

2

3

4

```
iptables -R INPUT 1 -p tcp -s 10.1.2.25/32 --sport 4022 -j ACCEPT
iptables -D OUTPUT 1
iptables -A OUTPUT -p udp -d 0/0 -s 10.1.2.0/24 --sport 5432 -m state --state ESTABLISHED -j ACCEPT
iptables -A INPUT -p tcp -d 0/0 -s 10.1.2.0/24 --dport 5432 -m state --state NEW,ESTABLISHED -j ACCEPT
```

1

2

3

4

```
iptables -R INPUT 1 -p tcp -s 10.1.2.0/24 --dport 4022 -j ACCEPT
iptables -D OUTPUT 2
iptables -A OUTPUT -p tcp -d 0/0 -s 10.1.2.0/24 --sport 5432 -m state --state ESTABLISHED -j ACCEPT
iptables -A INPUT -p tcp -d 0/0 -s 10.1.2.0/24 --dport 5432 -m state --state NEW,ESTABLISHED -j ACCEPT
```

1

2

3

4

```
iptables -R OUTPUT 1 -p tcp -s 10.1.2.25/32 --sport 4022 -j ACCEPT
iptables -F OUTPUT
iptables -A OUTPUT -p tcp -d 0/0 -s 10.1.2.0/24 --sport 5432 -m state --state ESTABLISHED -j ACCEPT
iptables -A INPUT -p tcp -d 0/0 -s 10.1.2.0/24 --dport 5432 -m state --state NEW,ESTABLISHED -j ACCEPT
```

1

2

3

4

```
iptables -R INPUT 1 -p tcp -s 10.1.2.25/32 --dport 4022 -j ACCEPT
iptables -D OUTPUT 1
iptables -A OUTPUT -p tcp -d 0/0 -s 10.1.2.0/24 --sport 5432 -m state --state ESTABLISHED -j ACCEPT
iptables -A INPUT -p tcp -d 0/0 -s 10.1.2.0/24 --dport 5432 -m state --state NEW,ESTABLISHED -j ACCEPT
```



```
#iptables --list --verbose

Chain INPUT (policy DROP 5 packets, 341 bytes)

pkts bytes target prot opt in out source destination
0 0 ACCEPT tcp -- any any anywhere anywhere tcp spts:login:65535 dpt:ssh state NEW,ESTABLISHED
1 28 DROP all -- any any anywhere anywhere

Chain FORWARD (policy DROP 0 packets, 0 bytes)
```

Answer:

Explanation:

WAP A: No issue found. The WAP A is configured correctly and meets the requirements.

PC A = Enable host-based firewall to block all traffic

This option will turn off the host-based firewall and allow all traffic to pass through. This will comply with the requirement and also improve the connectivity of PC A to other devices on the network. However, this option will also reduce the security of PC A and make it more vulnerable to attacks. Therefore, it is recommended to use other security measures, such as antivirus, encryption, and password complexity, to protect PC A from potential threats.

Laptop A: Patch management

This option will install the updates that are available for Laptop A and ensure that it has the most recent security patches and bug fixes. This will comply with the requirement and also improve the performance and stability of Laptop A. However, this option may also require a reboot of Laptop A and some downtime during the update process. Therefore, it is recommended to backup any important data and close any open applications before applying the updates.

Switch A: No issue found. The Switch A is configured correctly and meets the requirements.

Switch B: No issue found. The Switch B is configured correctly and meets the requirements.

Laptop B: Disable unneeded services

This option will stop and disable the telnet service that is using port 23 on Laptop B. Telnet is a cleartext service that transmits data in plain text over the network, which exposes it to eavesdropping, interception, and modification by attackers. By disabling the telnet service, you will comply with the requirement and also improve the security of Laptop B. However, this option may also affect the functionality of Laptop B if it needs to use telnet for remote administration or other purposes. Therefore, it is recommended to use a secure alternative to telnet, such as SSH or HTTPS, that encrypts the data in transit.

PC B: Enable disk encryption

This option will encrypt the HDD of PC B using a tool such as BitLocker or VeraCrypt. Disk encryption is a technique that protects data at rest by converting it into an unreadable format that can only be decrypted with a valid key or password. By enabling disk encryption, you will comply with the requirement and also improve the confidentiality and integrity of PC B's data. However, this option may also affect the performance and usability of PC B, as it requires additional processing time and user authentication to access the encrypted data. Therefore, it is recommended to backup any important data and choose a strong key or password before encrypting the disk.

PC C: Disable unneeded services

This option will stop and disable the SSH daemon that is using port 22 on PC C. SSH is a secure service that allows remote access and command execution over an encrypted channel. However, port 22 is the default and well-known port for SSH, which makes it a common target for brute-force attacks and port scanning. By disabling the SSH daemon on port 22, you will comply with the requirement and also improve the security of PC C. However, this option may also affect the functionality of PC C if it needs to use SSH for remote administration or other purposes. Therefore, it is recommended to enable the SSH daemon on a different port, such as 4022, by editing the configuration file using the following command:

sudo nano /etc/ssh/sshd_config

Server A. Need to select the following:

```
1 iptables -R INPUT 1 -p tcp -s 10.1.2.0/24 --dport 4022 -j ACCEPT
2 iptables -D OUTPUT 2
3 iptables -A OUTPUT -p tcp -d 0/0 -s 10.1.2.0/24 --sport 5432 -m state --state ESTABLISHED -j ACCEPT
4 iptables -A INPUT -p tcp -d 0/0 -s 10.1.2.0/24 --dport 5432 -m state --state NEW,ESTABLISHED -j ACCEPT
```


NEW QUESTION # 423

A company has a BYOD policy and has configured remote-wiping capabilities to support security requirements. An executive has raised concerns about personal contacts and photos being deleted from personal devices when an employee is terminated. Which of the following is the best way to address these concerns?

- A. Disable geotagging on the devices.
- B. Enforce the use of the approved email client.
- C. Require full device encryption.
- **D. Implement containerization.**

Answer: D

Explanation:

Containerization separates corporate data from personal data on BYOD devices. When an employee is terminated, only the corporate container is wiped, preserving personal data.

NEW QUESTION # 424

A company has decided to purchase a license for software that is used to operate a mission-critical process. The third-party developer is new to the industry but is delivering what the company needs at this time.

Which of the following BEST describes the reason why utilizing a source code escrow will reduce the operational risk to the company if the third party stops supporting the application?

- A. The company will be able to force the third-party developer to continue support.
- **B. The company will have access to the latest version to continue development.**
- C. The company will be paid by the third-party developer to hire a new development team.
- D. The company will be able to manage the third-party developer's development process.

Answer: B

Explanation:

Utilizing a source code escrow will reduce the operational risk to the company if the third party stops supporting the application, as it will provide access to the latest version of the source code to continue development. A source code escrow is an agreement between a software developer and a client that involves depositing the source code of a software product with a third-party escrow agent. The escrow agent can release the source code to the client under certain conditions specified in the agreement, such as bankruptcy, termination, or breach of contract by the developer. The company will not be able to force the third-party developer to continue support, manage their development process, or pay them to hire a new development team by utilizing a source code escrow. Verified Reference: <https://www.comptia.org/blog/what-is-source-code-escrow> <https://partners.comptia.org/docs/default-source/resources/casp-content-guide>

NEW QUESTION # 425

A company is preparing to deploy a global service.

Which of the following must the company do to ensure GDPR compliance? (Choose two.)

- A. Provide alternative authentication techniques.
- **B. Inform users regarding what data is stored.**
- C. Provide optional data encryption.
- D. Provide opt-in/out for marketing messages.
- **E. Provide data deletion capabilities.**
- F. Grant data access to third parties.

Answer: B,E

Explanation:

Explanation

The main rights for individuals under the GDPR are to:

allow subject access

have inaccuracies corrected

have information erased

prevent direct marketing
prevent automated decision-making and profiling
allow data portability (as per the paragraph above)
source:<https://www.clouddirect.net/11-things-you-must-do-now-for-gdpr-compliance/>

NEW QUESTION # 426

• • • • •

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