

Exam Questions CAS-004

CompTIA Advanced Security Practitioner (CASP+) Exam

<https://www.2passeasy.com/dumps/CAS-004/>



NEW QUESTION 1

An IT administrator is reviewing all the servers in an organization and notices that a server is missing crucial practice against a recent exploit that could gain root access.

Which of the following describes the administrator's discovery?

- A. A vulnerability
- B. A threat
- C. A breach
- D. A risk

Answer: A

Explanation:

Reference: <https://www.beyondtrust.com/blog/entry/privilege-escalation-attack-defense-explained>

NEW QUESTION 2

During a system penetration test, a security engineer successfully gained access to a shell on a Linux host as a standard user and wants to elevate the privilege levels.

Which of the following is a valid Linux post-exploitation method to use to accomplish this goal?

- A. Spawn a shell using sudo and an escape string such as `sudo vim -c '!sh'`.
- B. Perform ASIC password cracking on the host.
- C. Read the `/etc/passwd` file to extract the usernames.
- D. Initiate unquoted service path exploits.
- E. Use the UNION operator to extract the database schema.

Answer: C

Explanation:

Reference: <https://docs.rapid7.com/insightvm/elevating-permissions/>

NEW QUESTION 3

A shipping company that is trying to eliminate entire classes of threats is developing an SELinux policy to ensure its custom Android devices are used exclusively for package tracking.

After compiling and implementing the policy, in which of the following modes must the company ensure the devices are configured to run?

- A. Protecting
- B. Permissive
- C. Enforcing
- D. Mandatory

Answer: B

Explanation:

Reference: <https://source.android.com/security/selinux/customize>

1. Use the latest Android kernel.
2. Adopt the principle of least privilege.
3. Address only your own additions to Android. The default policy works with the Android Open Source Project codebase automatically.
4. Compartmentalize software components into modules that conduct singular tasks.
5. Create SELinux policies that isolate those tasks from unrelated functions.
6. Put those policies in `*.te` files (the extension for SELinux policy source files) within the `/device/manufacturer/device-name/sepolicy` directory and use `BOARD_SEPOLICY` variables to include them in your build.
7. Make new domains permissive initially. This is done by using a permissive declaration in the domain's `.te` file.
8. Analyze results and refine your domain definitions.
9. Remove the permissive declaration when no further denials appear in userdebug builds.

NEW QUESTION 4

A technician is reviewing the logs and notices a large number of files were transferred to remote sites over the course of three months. This activity then stopped. The files were transferred via TLSprotected HTTP sessions from systems that do not send traffic to those sites.

The technician will define this threat as:

- A. a decrypting RSA using obsolete and weakened encryption attack.
- B. a zero-day attack.
- C. an advanced persistent threat.
- D. an on-path attack.

Answer: A

Explanation:

Reference: <https://www.internetsociety.org/deploy360/tls/basics/>

NEW QUESTION 5

A company is implementing SSL inspection. During the next six months, multiple web applications that will be separated out with subdomains will be deployed. Which of the following will allow the inspection of the data without multiple certificate deployments?

- A. Include all available cipher suites.
- B. Create a wildcard certificate.
- C. Use a third-party CA.
- D. Implement certificate pinning.

Answer: D

NEW QUESTION 6

A new web server must comply with new secure-by-design principles and PCI DSS. This includes mitigating the risk of an on-path attack. A security analyst is reviewing the following web server configuration:

```
TLS_AES_256_GCM_SHA384
TLS_CHACHA20_POLY1305_SHA256
TLS_AES_128_GCM_SHA256
TLS_AES_128_CCM_8_SHA256
TLS_RSA_WITH_AES_128_CBC_SHA256
TLS_DHE_DSS_WITH_RC4_128_SHA
RSA_WITH_AES_128_CCM
```

Which of the following ciphers should the security analyst remove to support the business requirements?

- A. TLS_AES_128_CCM_8_SHA256
- B. TLS_DHE_DSS_WITH_RC4_128_SHA
- C. TLS_CHACHA20_POLY1305_SHA256
- D. TLS_AES_128_GCM_SHA256

Answer: C

NEW QUESTION 7

A systems administrator is in the process of hardening the host systems before connecting to the network. The administrator wants to add protection to the boot loader to ensure the hosts are secure before the OS fully boots.

Which of the following would provide the BEST boot loader protection?

- A. TPM
- B. HSM
- C. PKI
- D. UEFI/BIOS

Answer: D

Explanation:

Reference: <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.security.doc/GUID-898217D4-689D-4EB5-866C-888353FE241C.html>

This task describes how to use the vSphere Client to enable and disable secure boot for a virtual machine. You can also write scripts to manage virtual machine settings. For example, you can automate changing the firmware from BIOS to EFI for virtual machines with the following PowerCLI code:

```
$vm = Get-VM TestVM

$spec = New-Object VMware.Vim.VirtualMachineConfigSpec
$spec.Firmware = [VMware.Vim.GuestOsDescriptorFirmwareType]::efi
$vm.ExtensionData.ReconfigVM($spec)
```

NEW QUESTION 8

A security analyst is reviewing the following output:

```
Request URL: http://www.largeworldwidebank.org/../../../../etc/passwd
Request Method: GET
Status Code: 200 OK
Remote Address: 107.240.1.127:443
Content-Length: 1245
Content-Type: text/html
Date: Tue, 03 Nov 2020 19:47:14 GMT
Server: Microsoft-IIS/10.0
X-Powered-By: ASP.NET
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Cache-Control: max-age=0
Connection: Keep-Alive
Host: www.largeworldwidebank.org/
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/67.0.3396.87 Safari/537.36
```

Which of the following would BEST mitigate this type of attack?

- A. Installing a network firewall
- B. Placing a WAF inline
- C. Implementing an IDS
- D. Deploying a honeypot

Answer: A

NEW QUESTION 9

A company is preparing to deploy a global service.

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

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

Answer: AB

Explanation:

Reference: <https://gdpr.eu/compliance-checklist-us-companies/>

- Conduct an information audit for EU personal data

Confirm that your organization needs to comply with the GDPR. First, determine what personal data you process and whether any of it belongs to people in the EU. If you do process such data, determine whether "The processing activities are related to offering goods or services to such data subjects irrespective of whether connected to a payment." [Recital 23](#) can help you clarify whether your activities qualify as subject to the GDPR. If you are subject to the GDPR, continue to the next steps.

- Inform your customers why you're processing their data

NEW QUESTION 10

A company is looking to fortify its cybersecurity defenses and is focusing on its network infrastructure. The solution cannot affect the availability of the company's services to ensure false positives do not drop legitimate traffic.

Which of the following would satisfy the requirement?

- A. NIDS
- B. NIPS
- C. WAF
- D. Reverse proxy

Answer: B

Explanation:

Reference: <https://subscription.packtpub.com/book/networking-and-servers/9781782174905/5/ch05lv1sec38/differentiatingbetween-nids-and-nips>

NEW QUESTION 10

An energy company is required to report the average pressure of natural gas used over the past quarter. A PLC sends data to a historian server that creates the required reports.

Which of the following historian server locations will allow the business to get the required reports in an ?? and IT environment?

- A. In the ?? environment, use a VPN from the IT environment into the ?? environment.
- B. In the ?? environment, allow IT traffic into the ?? environment.
- C. In the IT environment, allow PLCs to send data from the ?? environment to the IT environment.
- D. Use a screened subnet between the ?? and IT environments.

Answer: A

NEW QUESTION 14

A security analyst is investigating a possible buffer overflow attack. The following output was found on a user's workstation: `graphic.linux_randomization.prg`
 Which of the following technologies would mitigate the manipulation of memory segments?

- A. NX bit
- B. ASLR
- C. DEP
- D. HSM

Answer: B

Explanation:

Reference: <http://webpages.eng.wayne.edu/~fy8421/19sp-csc5290/labs/lab2-instruction.pdf> (3)

NEW QUESTION 15

A company publishes several APIs for customers and is required to use keys to segregate customer data sets. Which of the following would be BEST to use to store customer keys?

- A. A trusted platform module
- B. A hardware security module
- C. A localized key store
- D. A public key infrastructure

Answer: C

Explanation:

Reference: <https://developer.android.com/studio/publish/app-signing>



NEW QUESTION 18

An organization recently experienced a ransomware attack. The security team leader is concerned about the attack reoccurring. However, no further security measures have been implemented.

Which of the following processes can be used to identify potential prevention recommendations?

- A. Detection
- B. Remediation
- C. Preparation
- D. Recovery

Answer: A

NEW QUESTION 22

A company created an external application for its customers. A security researcher now reports that the application has a serious LDAP injection vulnerability that could be leveraged to bypass authentication and authorization.

Which of the following actions would BEST resolve the issue? (Choose two.)

- A. Conduct input sanitization.
- B. Deploy a SIEM.
- C. Use containers.
- D. Patch the OS
- E. Deploy a WAF.
- F. Deploy a reverse proxy
- G. Deploy an IDS.

Answer: BD

NEW QUESTION 23

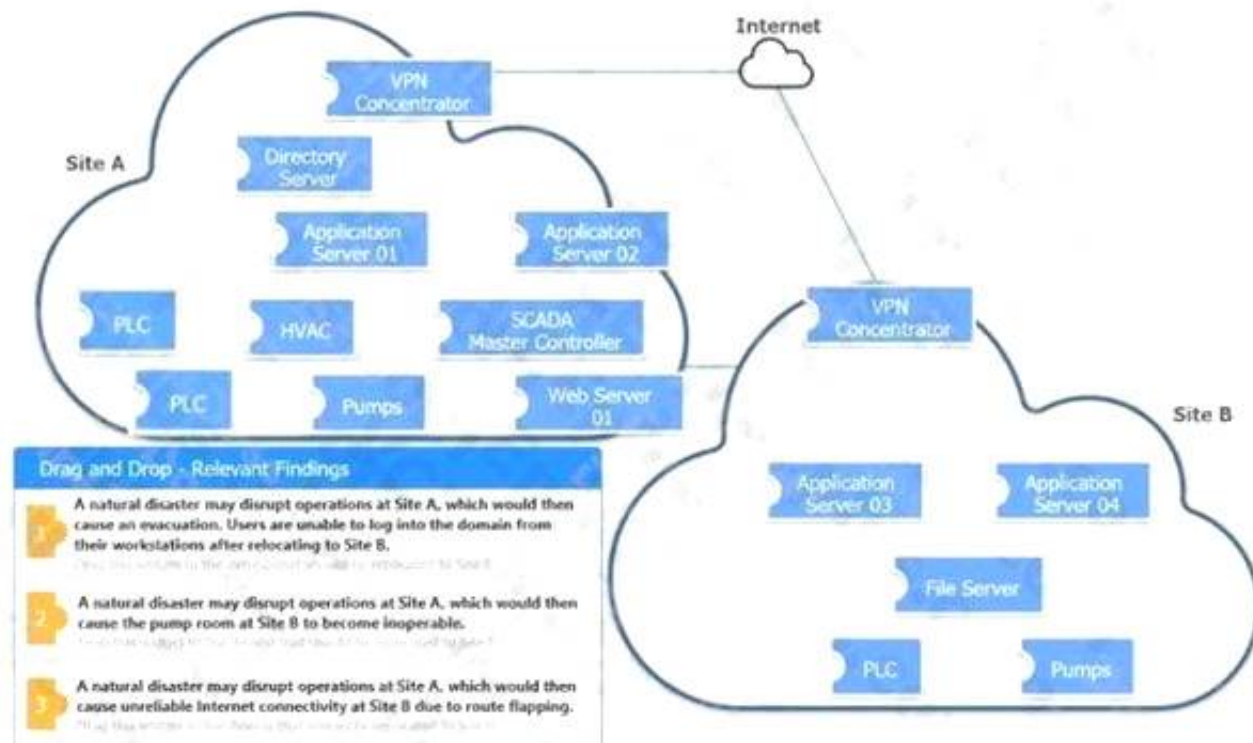
DRAG DROP

An organization is planning for disaster recovery and continuity of operations. INSTRUCTIONS

Review the following scenarios and instructions. Match each relevant finding to the affected host.

After associating scenario 3 with the appropriate host(s), click the host to select the appropriate corrective action for that finding. Each finding may be used more than once.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button. Select and Place:



A.

A.

Answer: A

NEW QUESTION 28

A business stores personal client data of individuals residing in the EU in order to process requests for mortgage loan approvals. Which of the following does the business's IT manager need to consider?

- A. The availability of personal data
- B. The right to personal data erasure
- C. The company's annual revenue
- D. The language of the web application

Answer: B

Explanation:

Reference: <https://gdpr.eu/right-to-be-forgotten/#:~:text=Also%20known%20as%20the%20right,to%20delete%20their%20personal%20data.&text=The%20General%20Data%20Protection%20Regulation,collected%2C%20processed%2C%20and%20erased>

NEW QUESTION 32

An analyst execute a vulnerability scan against an internet-facing DNS server and receives the following report:

- * Vulnerabilities in Kernel-Mode Driver Could Allow Elevation of Privilege
- * SSL Medium Strength Cipher Suites Supported
- * Vulnerability in DNS Resolution Could Allow Remote Code Execution
- * DNS Host SIDs Allow Local User Enumeration

Which of the following tools should the analyst use FIRST to validate the most critical vulnerability?

- A. Password cracker
- B. Port scanner
- C. Account enumerator
- D. Exploitation framework

Answer: A

NEW QUESTION 33

A company that all mobile devices be encrypted, commensurate with the full disk encryption scheme of assets, such as workstation, servers, and laptops.

Which of the following will MOST likely be a limiting factor when selecting mobile device managers for the company?

- A. Increased network latency
- B. Unavailable of key escrow
- C. Inability to selected AES-256 encryption
- D. Removal of user authentication requirements

Answer: A

NEW QUESTION 38

An application developer is including third-party background security fixes in an application. The fixes seem to resolve a currently identified security issue. However, when the application is released to the public, report come In that a previously vulnerability has returned .

Which of the following should the developer integrate into the process to BEST prevent this type of behavior?

- A. Peer review
- B. Regression testing
- C. User acceptance
- D. Dynamic analysis

Answer: A

NEW QUESTION 40

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