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>> CAS-005 Detail Explanation <<

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CompTIA SecurityX Certification Exam Sample Questions (Q265-Q270):

NEW QUESTION # 265
After remote desktop capabilities were deployed in the environment, various vulnerabilities were noticed.
* Exfiltration of intellectual property
* Unencrypted files
* Weak user passwords
Which of the following is the best way to mitigate these vulnerabilities? (Select two).

- A. Implementing data loss prevention
- B. Deploying file integrity monitoring
- C. Implementing a version control system
- D. Implementing a CMDB platform
- E. Enabling modem authentication that supports MFA
- F. Deploying directory-based group policies
- G. Restricting access to critical file services only

Answer: A,E

Explanation:
To mitigate the identified vulnerabilities, the following solutions are most appropriate:
A: Implementing data loss prevention (DLP): DLP solutions help prevent the unauthorized transfer of data outside the organization. This directly addresses the exfiltration of intellectual property by monitoring, detecting, and blocking sensitive data transfers.
E: Enabling modern authentication that supports Multi-Factor Authentication (MFA): This significantly enhances security by requiring additional verification methods beyond just passwords. It addresses the issue of weak user passwords by making it much harder for unauthorized users to gain access, even if they obtain the password.
Other options, while useful in specific contexts, do not address all the vulnerabilities mentioned:
B: Deploying file integrity monitoring helps detect changes to files but does not prevent data exfiltration or address weak passwords.
C: Restricting access to critical file services improves security but is not comprehensive enough to mitigate all identified vulnerabilities.
D: Deploying directory-based group policies can enforce security policies but might not directly prevent data exfiltration or ensure strong authentication.
F: Implementing a version control system helps manage changes to files but is not a security measure for preventing the identified vulnerabilities.
G: Implementing a CMDB platform (Configuration Management Database) helps manage IT assets but does not address the specific security issues mentioned.
References:
CompTIA Security+ Study Guide
NIST SP 800-53 Rev. 5, "Security and Privacy Controls for Information Systems and Organizations" CIS Controls, "Control 13: Data Protection" and "Control 16: Account Monitoring and Control"

NEW QUESTION # 266
A company needs to increase the maturity level for the cybersecurity department's governance structure.
To achieve this goal, the company wants to implement a set of controls that can be used as part of the standard operational procedures and policies within the department and the company.
Which of the following frameworks best aligns with this goal?

- A. CIS
- B. COBIT
- C. COSO
- D. ITIL

Answer: B

NEW QUESTION # 267
You are a security analyst tasked with interpreting an Nmap scan output from company's privileged network.
The company's hardening guidelines indicate the following:
There should be one primary server or service per device.
Only default ports should be used.
Non-secure protocols should be disabled.
INSTRUCTIONS
Using the Nmap output, identify the devices on the network and their roles, and any open ports that should be closed.
For each device found by Nmap, add a device entry to the Devices Discovered list, with the following information:
The IP address of the device
The primary server or service of the device (Note that each IP should by associated with one service/port only) The protocol(s) that should be disabled based on the hardening guidelines (Note that multiple ports may need to be closed to comply with the hardening guidelines) If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

NMAP Scan Output

```
Nmap scan report for 10.1.45.65
Host is up (0.015s latency).
Not shown: 998 filtered ports
PORT     STATE  SERVICE   VERSION
22/tcp   open   ssh       CrushFTP sftpd (protocol 2.0)
8080/tcp open   http      CrushFTP web interface
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Device type: general purpose
Running: Microsoft Windows 7|2008
OS CPE: cpe:/o:microsoft:windows_7 cpe:/o:microsoft:windows_server_2008:r2
OS details: Microsoft Windows 7 SP1 or Windows Server 2008 R2

Nmap scan report for 10.1.45.66
Host is up (0.016s latency).
Not shown: 998 closed ports
PORT     STATE   SERVICE   VERSION
25/tcp   closed  smtp      Barracuda Networks Spam Firewall smtpd
415/tcp  open    ssl/smtp  smtpd
587/tcp  open    ssl/smtp  smtpd
443/tcp  open    ssl/http  Microsoft IIS httpd 7.5
Aggressive OS guesses: Linux 3.16 (90%), OpenWrt Chaos Calmer 15.05 (Linux 3.18)
or Designated Driver (Linux 4.1 or 4.4) (89%), OpenWrt Kamikaze 7.09 (Linux 2.6.22)
(88%), Linux 4.5 (88%), Asus RT-AC66U router (Linux 2.6) (88%), Linux 3.16 - 4.6
(88%), OpenWrt 0.9 - 7.09 (Linux 2.4.30 - 2.4.34) (87%), OpenWrt White Russian 0.9
(Linux 2.4.30) (87%), Asus RT-N16 WAP (Linux 2.6) (87%), Asus RT-N66U WAP (Linux
2.6) (87%)
No exact OS matches for host (test conditions non-ideal).
Service Info: Host: barracuda.pnp.root; CPE:
cpe:/h:barracudanetworks:spam_%26_virus_firewall_600:-

Nmap scan report for 10.1.45.67
Host is up (0.026s latency).
Not shown: 991 filtered ports
PORT      STATE   SERVICE  VERSION
20/tcp    closed  ftp-data
21/tcp    open    ftp      FileZilla ftpd 0.9.39 beta
22/tcp    closed  ssh
80/tcp    open    http     Microsoft IIS httpd 7.5
443/tcp   open    ssl/http Microsoft IIS httpd 7.5
2001/tcp  closed  dc
2047/tcp  closed  dls
2196/tcp  closed  unknown
6001/tcp  closed  X11:1
Device type: general purpose
Running (JUST GUESSING): Microsoft Windows Vista|7|2008|8.1 (94%)
OS CPE: cpe:/o:microsoft:windows_vista::sp2 cpe:/o:microsoft:windows_7::sp1
cpe:/o:microsoft:windows_server_2008 cpe:/o:microsoft:windows_8.1:r1
Aggressive OS guesses: Microsoft Windows Vista SP2, Windows 7 SP1, or Windows
Server 2008 (94%), Microsoft Windows Server 2008 R2 (92%), Microsoft Windows
Server 2008 SP2 (90%), Microsoft Windows 7 SP1 or Windows Server 2008 R2 (90%),
Microsoft Windows Server 2008 (87%), Microsoft Windows Server 2008 R2 SP1 (86%),
Microsoft Windows Vista SP0 or SP1, Windows Server 2008 SP1, or Windows 7 (85%),
Microsoft Windows 8.1 R1 (85%)
No exact OS matches for host (test conditions non-ideal).
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Nmap scan report for 10.1.45.68
Host is up (0.016s latency).
Not shown: 999 filtered ports
PORT     STATE SERVICE         VERSION
21/tcp   open  ftp             Pure-FTPd
443/tcp  open  ssl/http-proxy  SonicWALL SSL-VPN http proxy
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Device type: firewall|general purpose|media device
Running (JUST GUESSING): Linux 3.X|2.6.X (92%), IPCop 2.X (92%), Tiandy
embedded (86%)
OS CPE: cpe:/o:linux:linux_kernel:3.4 cpe:/o:ipcop:ipcop:2 cpe:/o:linux:linux_kernel:3.2
cpe:/o:linux:linux_kernel:2.6.32
Aggressive OS guesses: IPCop 2 firewall (Linux 3.4) (92%), Linux 3.2 (89%), Linux
2.6.32 (87%), Tiandy NVR (86%)
No exact OS matches for host (test conditions non-ideal).
```

Devices Discovered (0)

⊕ Add Device For [▼]

10.1.45.65
10.1.45.66
10.1.45.67
10.1.45.68

NMAP Scan Output

```
Nmap scan report for 10.1.45.65
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8080/tcp  open   http       CrushFTP web interface
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PORT      STATE   SERVICE   VERSION
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587/tcp   open    ssl/smtp  smtpd
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(88%), OpenWrt 0.9 - 7.09 (Linux 2.4.30 - 2.4.34) (87%), OpenWrt White Russian 0.9
(Linux 2.4.30) (87%), Asus RT-N16 WAP (Linux 2.6) (87%), Asus RT-N66U WAP (Linux
2.6) (87%)
No exact OS matches for host (test conditions non-ideal).
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cpe:/h:barracudanetworks:spam_%26_virus_firewall_600:-

Nmap scan report for 10.1.45.67
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Not shown: 991 filtered ports
PORT       STATE   SERVICE   VERSION
20/tcp     closed  ftp-data
21/tcp     open    ftp       FileZilla ftpd 0.9.39 beta
22/tcp     closed  ssh
80/tcp     open    http      Microsoft IIS httpd 7.5
443/tcp    open    ssl/http  Microsoft IIS httpd 7.5
2001/tcp   closed  dc
2047/tcp   closed  dls
2196/tcp   closed  unknown
6001/tcp   closed  X11:1
Device type: general purpose
Running (JUST GUESSING): Microsoft Windows Vista|7|2008|8.1 (94%)
OS CPE: cpe:/o:microsoft:windows_vista::sp2 cpe:/o:microsoft:windows_7::sp1
cpe:/o:microsoft:windows_server_2008 cpe:/o:microsoft:windows_8.1:r1
Aggressive OS guesses: Microsoft Windows Vista SP2, Windows 7 SP1, or Windows
Server 2008 (94%), Microsoft Windows Server 2008 R2 (92%), Microsoft Windows
Server 2008 SP2 (90%), Microsoft Windows 7 SP1 or Windows Server 2008 R2 (90%),
Microsoft Windows Server 2008 (87%), Microsoft Windows Server 2008 R2 SP1 (86%),
Microsoft Windows Vista SP0 or SP1, Windows Server 2008 SP1, or Windows 7 (85%),
Microsoft Windows 8.1 R1 (85%)
No exact OS matches for host (test conditions non-ideal).
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Nmap scan report for 10.1.45.68
Host is up (0.016s latency).
Not shown: 999 filtered ports
PORT       STATE  SERVICE           VERSION
21/tcp     open   ftp               Pure-FTPd
443/tcp    open   ssl/http-proxy    SonicWALL SSL-VPN http proxy
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Device type: firewall|general purpose|media device
Running (JUST GUESSING): Linux 3.X|2.6.X (92%), IPCop 2.X (92%), Tiandy
embedded (86%)
OS CPE: cpe:/o:linux:linux_kernel:3.4 cpe:/o:ipcop:ipcop:2 cpe:/o:linux:linux_kernel:3.2
cpe:/o:linux:linux_kernel:2.6.32
Aggressive OS guesses: IPCop 2 firewall (Linux 3.4) (92%), Linux 3.2 (89%), Linux
2.6.32 (87%), Tiandy NVR (86%)
No exact OS matches for host (test conditions non-ideal).
```

Devices Discovered (1)

⊕ Add Device For   10.1.45.66   ▾

IP Address   10.1.45.65   ⊗

Role   ▾

- SFTP Server
- Email Server
- FTP Server
- UTM Appliance
- Web Server
- Database Server
- AD Server

Disable Protocols
- ☐ 20/tcp
- ☐ 21/tcp
- ☐ 22/tcp
- ☐ 25/tcp
- ☐ 80/tcp
- ☐ 415/tcp
- ☐ 443/tcp
- ☐ 8080/tcp

Answer:

Explanation:
See explanation below.
Explanation:
10.1.45.65 SFTP Server Disable 8080
10.1.45.66 Email Server Disable 415 and 443
10.1.45.67 Web Server Disable 21, 80
10.1.45.68 UTM Appliance Disable 21

NEW QUESTION # 268

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 TLS-protected HTTP sessions from systems that do not normally send traffic to those sites. The technician will define this threat as:

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

Answer: B

Explanation:

The scenario describes a prolonged, stealthy operation where files were exfiltrated over three months via secure channels (TLS-protected HTTP) from unexpected systems, then ceased. This aligns with anAdvanced Persistent Threat (APT), characterized by long-term, targeted attacks aimed at data theft or surveillance, often using sophisticated methods to remain undetected.
* Option A:Decrypting RSA with weak encryption implies a cryptographic attack, but TLS suggests modern encryption was used, and there's no evidence of decryption here.
* Option B:A zero-day attack exploits unknown vulnerabilities, but the duration and cessation suggest a planned operation, not a single exploit.
* Option C:APT fits perfectly-slow, persistent exfiltration from unusual systems indicates a coordinated, stealthy threat actor.
* Option D:An on-path (man-in-the-middle) attack intercepts traffic, but there's no indication of interception; the focus is on unauthorized transfers.

NEW QUESTION # 269

To prevent data breaches, security leaders at a company decide to expand user education to:
* Create a healthy security culture.
* Comply with regulatory requirements.
* Improve incident reporting.
Which of the following would best meet their objective?

- A. Simulating a phishing campaign
- B. Scheduling regular penetration tests
- C. Performing a DoS attack
- D. Deploying fake ransomware

Answer: A

Explanation:
Comprehensive and Detailed Explanation:
Phishing simulations are a proven method for reinforcing security awareness, meeting compliance training requirements, and improving user incident reporting. In CAS-005, social engineering testing is a recommended component of organizational security culture programs.
* DoS attacks (A) and penetration tests (B) assess technical security, not user awareness.
* Fake ransomware (D) can cause unnecessary alarm and operational disruption.

NEW QUESTION # 270

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