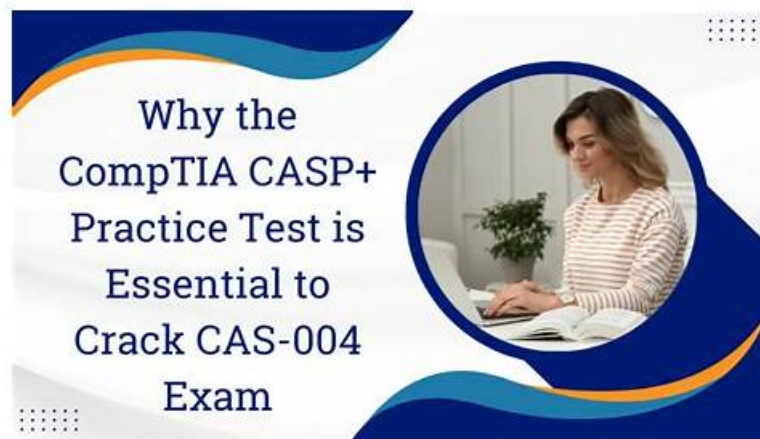


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CompTIA Advanced Security Practitioner (CASP+) Exam Sample Questions

(Q244-Q249):

NEW QUESTION # 244

A security analyst is reading the results of a successful exploit that was recently conducted by third-party penetration testers. The testers reverse engineered a privileged executable. In the report, the planning and execution of the exploit is detailed using logs and outputs from the test. However, the attack vector of the exploit is missing, making it harder to recommend remediation's. Given the following output:

```

00144358e <10>: movl $0xffffffff, %0x1c(%ebp) //Tester note, Start
0014435af <17>: mov %eax,%edx
0014435b1 <19>: mov $0x0,%eax
0014435b6 <24>: mov -0x1c(%ebp),%ecx
0014435b9 <27>: mov %edx,%edi
0014435bb <29>: repnz scas %eax(%edi),%al
0014435bd <31>: mov %ecx,%eax
0014435bf <33>: not %eax
0014435c1 <35>: sub $0x1,%eax //Tester note, end
0014435c4 <38>: mov %al,-0x5(%ebp)
0014435c7 <41>: cmpl $0x3,-0x9(%ebp)
0014435cb <45>: jbe 0x14435c0 <validate_password>
0014435cd <47>: cmpl $0x0,-0x9(%ebp) //Tester note >0
0014435d1 <51>: jae 0x14435d0 <validate_password>
0014435d3 <53>: movl $0x14435d0, (%esp)
0014435d6 <60>: call 0x14435d0 <puts@plt>
0014435df <65>: movl $0x1440020,%eax
0014435e4 <70>: mov %eax, (%esp)
0014435e7 <73>: call 0x1440020 <fflush@plt>
0014435ec <78>: movl $0x0,%ebp,%eax
0014435ef <81>: mov %eax, 0x4(%esp)
0014435f3 <85>: lea -0x14(%ebp),%eax
0014435f6 <88>: mov %eax, (%esp)
0014435f9 <91>: call 0x1440390 <strcpy@plt> //Tester note, breakpoint
0014435fe <96>: jmp 0x1440319 <validate_password>

```

The penetration testers MOST likely took advantage of:

- A. A buffer overflow vulnerability
- **B. A TOC/TOU vulnerability**
- C. An integer overflow vulnerability
- D. A plain-text password disclosure

Answer: B

NEW QUESTION # 245

SIMULATION

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 be 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
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 (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:

- 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 # 246

A software developer needs to add an authentication method to a web application. The following requirements must be met:

- * The web application needs to use well-supported standards.
 - * The initial login to the web application should rely on an outside, trusted third party.
 - * The login needs to be maintained for up to six months.
- Which of the following would best support these requirements? (Select two).

- A. Remote attestation
- **B. JWT**
- C. EAP
- D. RADIUS
- E. Kerberos
- **F. SAML**

Answer: B,F

Explanation:

To meet the requirements for authentication using trusted third parties and session maintenance, SAML (Security Assertion Markup Language) and JWT (JSON Web Token) are the best options. SAML is widely used for single sign-on (SSO) and federated authentication, allowing users to authenticate with an external identity provider (trusted third party). JWT is commonly used for maintaining authenticated sessions across web applications and is well-suited for long-term session management, like the six-month duration mentioned. Together, these solutions meet the requirements for standards-based authentication and long-lasting sessions. CASP+ discusses the role of SAML in federated identity management and JWT in token-based authentication.

References:

- * CASP+ CAS-004 Exam Objectives: Domain 2.0 - Enterprise Security Operations (Federated Identity Management, JWT, SAML)
- * CompTIA CASP+ Study Guide: Web Application Authentication with SAML and JWT

NEW QUESTION # 247

A managed security provider (MSP) is engaging with a customer who was working through a complete digital transformation. Part of this transformation involves a move to cloud servers to ensure a scalable, high-performance, online user experience. The current architecture includes:

- Directory servers
- Web servers
- Database servers
- Load balancers
- Cloud-native VPN concentrator
- Remote access server

The MSP must secure this environment similarly to the infrastructure on premises. Which of the following should the MSP put in place to BEST meet this objective? (Choose three.)

- A. Software-defined WAN
- **B. Virtual next-generation firewall**
- C. Containers
- D. Content delivery network
- **E. Web application firewall**
- **F. External vulnerability scans**

Answer: B,E,F

NEW QUESTION # 248

A security analyst is trying to identify the source of a recent data loss incident. The analyst has reviewed all the for the time surrounding the identified all the assets on the network at the time of the data loss. The analyst suspects the key to finding the source was obfuscated in an application. Which of the following tools should the analyst use NEXT?

- A. Network enurerator
- B. Software Decompiler
- C. Log reduction and analysis tool
- **D. Static code analysis**

Answer: D

NEW QUESTION # 249

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