Module 6 Assessment (Monitoring and Analysis & Countermeasures and Controls p3rd)

Due Oct 30 at 12:59am **Allowed Attempts** 2

Points 20 Questions 20

Available Oct 16 at 12am - Oct 31 at 12:59am

Time Limit 45 Minutes

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Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	14 minutes	17 out of 20

(!) Answers will be shown after your last attempt

Score for this attempt: **17** out of 20 Submitted Oct 25 at 10:54am This attempt took 14 minutes.

Question 1	1 / 1 pts
Which of the following best describes a nontechnical control?	
A control uses technical means within computer systems to reduce risk	
A control that uses training and written documents such as security policies to reduce risk	
A control that is highly complex and requires technical details to explain	
A control that is preventive in nature	

B is correct. Nontechnical controls include user training and written documents such as security policies. A, C, and D are incorrect. A technical control is a control that uses technical means within computer systems to reduce risk. A nontechnical control is not necessarily highly complex. Nontechnical controls can be preventive, detective, corrective, or a combination of these, so singling out their preventive role is not the best description.

Question 2	1 / 1 pts
Which of the following is the best choice to identify a system that requires a database to detect attacks?	
Anomaly-based IDS	
Signature-based IDS	
O HIPS	
○ NIPS	
B is correct. A signature-based intrusion detection system (IDS) compares activity to a signature file to ident attacks. A, C, and D are incorrect. An anomaly-based IDS requires a baseline. Both a host-based IPS (HIP a network-based IPS (NIPS) can use either anomaly-based or signature-based detection methods.	-

Question 3	1 / 1 pts
An organization wants to monitor a server for intrusions. What should be used?	
HIDS	

NIDS	
Antivirus softw	are
Host-based fire	wall
on the host but c system (NIDS) m and the agents fo	est-based IDS (HIDS) is installed on a system such as a server or workstation. It monitors activity annot monitor network activity. B, C, and D are incorrect. A network-based intrusion detection onitors traffic going through a network. It uses agents to monitor traffic on routers and switches, brward the traffic to a central management console. Antivirus software monitors for malware. A all is installed on a single server and can filter traffic, but it does not monitor for intrusions.

Question 4	1 / 1 pts
A security professional is performing a penetration test on a system. When should the penetration test stop?	
At the completion of the vulnerability assessment	
○ When the tested system fails	
Before causing damage to a live system or network	
After fully exploiting the vulnerability	

C is correct. A penetration test should stop before causing damage to a live system or network. The goal is not to affect the mission or the organization, but instead to prove that the mission can be affected. A, B, and D are incorrect. A penetration test starts with a vulnerability assessment, so it wouldn't be stopped at the completion of the vulnerability assessment. A penetration test should stop before a system fails or before it has fully exploited the vulnerability.

Question 5	1 / 1 pts
A network is using an anomaly-based IDS. The administrators have modified the network by upgrading and charsome components. What be done to ensure that the IDS can accurately detect events?	nging
Reinstall the IDS	
O Upgrade the IDS	
Update the signature database	
Update the baseline	
D is correct. An anomaly-based intrusion detection system (IDS) attempts to document normal behavior in the of a baseline, so if the normal behavior is modified by changing the environment, the baseline must be update B, and C are incorrect. It is not necessary to reinstall or upgrade the IDS. A signature-based (not anomaly-b detection method uses signatures.	ed. A,

Question 6 1/1 pts

Written po	olicies and procedures	
Employee	e background checks	
Intrusion o	detection system	
Encryption	on of data	
^		

Question 7	1 / 1 pts
Security administrators from within the organization are asked to perform a vulnerability test. They have the internal network. What type of vulnerability assessment will they do?	e full knowledge of
White box	
Black box	
○ Gray box	
○ Zero knowledge	

A is correct. In a white box test (also known as a full knowledge test), testers have full access to the internal network and know the network infrastructure, including what systems it hosts. B, C, and D are incorrect. In a black box test, testers don't ahve any knowledge of the internal network prior to starting the testing. External consultants hired to test an organization's security vulnerabilities often do black box testing. In a geray box test, testers have a least some level of knowledge about the network. Zero knowledge testing isn't an actual term, but it refers to black box testing where the testers have zero knowledge.

Incorrect

Question 8 0 / 1 pts

Attackers recently attacked a web server hosted within a demilitarized zone (DMZ). The network was protected with firewalls and intrusion detection systems, with each component logging events and forwarding some of the logs to a remote system. What logs are the most valuable to re-create the event during and prior to the attack?

- Firewall logs on the web server
- System logs on the web server
- Logs on remotes systems
- Application logs on the web server

C is correct. After an attack, remote logs are the most valuable to re-create the events druing and prior to the attack. A, B, and D are incorrect. Any logs on a local sysem should be treated with suspicion because the attacker may have modified them.

Question 9

1 / 1 pts

Ac	ontrol that uses technical means within computer systems to reduce risk
Ac	ontrol that uses training and written documents such as security policies to reduce risk
Ac	ontrol that is highly complex and requires technical details to explain
Ac	ontrol that is preventive in nature
, and	rrect. A technical control is a control that uses technical means within computer systems to reduce risk. E D are incorrect. Nontechnical controls include user training and written documents such as security s. A technical control is not necessarily highly complex. Technical controls can be preventive, detective,

Question 10	1 / 1 pts
Of the following choices, what is not a valid method of detection used by HIDSs?	
 Anomaly-based 	
○ Signature-based	
○ Knowledge-based	
Reporting-based	

D is correct. Reporting-based is not a valid method of detection used by any intrusion detection system IDS), including host-based intrusion detection system. A, B, and C are incorrect. A signature-based (sometimes called knowledge-based) detection method is similar in concept to antivirus signatures. Many attacks have unique characteristics documented in signature files. The IDS uses these signature files to identify and detect attacks. In an anomaly-based IDS, the IDS attempts to document normal behavior in the form of a baseline. It then monitors the activity and constantly compares it to the baseline, looking for anomalies.

Question 11	1 / 1 pts
An organization wants to monitor a critical server for intrusions. What should be used?	
HIDS	
O NIDS	
○ Signature-based IDS	
Network-based firewall	
A is correct. A host-based intrusion detection system (HIDS) is installed on a system such as a server or workstation and monitors activity on the host. B, C, and D are incorrect. A network-based IDS (NIDS) monitraffic going through a network. It uses agents monitoring traffic on routers and switches, and the agents fo the traffic to a Central management console. A signature-based IDS isn't required, but a host-based IDS is network-based firewall monitors network traffic.	rward

Question 12 1 / 1 pts

Incorrect

Full backups da	ily
Full/differential	
Full/incrementa	
O Daily copies	
the recovery can are incorrect. Per full/differential bac the recovery time	l/incremental backup strategy minimizes the time needed for backups during the week. However take longer because multiple backups may need to be restored to recover the data. A, B, and D rforming full backups daily would not reduce the amount of time needed to complete backups. A ckup strategy takes longer to back up during the week than a full/incremental strategy. However, is reduced because a maximum of two backups are needed to recover the data. Daily copies the amount of time need to complete backups.

Of the following choices, what is NOT an example of a corrective control?

A disaster recovery plan

A backup and restore procedures

Forensic analysis

https://olympic.instructure.com/courses/2375137/quizzes/8228906

An intrusion prevention system

D is correct. Forensic analysis is a detective control, not a corrective control. A, B, and C are incorrect. All of the other answers are examples of corrective controls.

Question 14	1 / 1 pts
our organization is considering restricting the software that can run on several isolated systems to specific app What is this called?	lications.
○ Signature-based	
Anomaly-based	
Whitelisting	
MAC filtering	
C is correct. Once type of whitelisting restricts the software that can run on a system to specific applications services. A, B, and D are incorrect. Signature-based and anomaly-based are two types of detection method intrusion detection systems (IDS) and intrusion prevention systems (IPS), but they don't use whitelisting. M access control (MAC) filtering is another type of whitelisting, but used MAC addresses to restrict traffic to sp systems.	ds for edia

Incorrect

Question 15 0 / 1 pts

You are designing a backup strategy for several key servers. You have time to do a full backup on Sunday, but not enough time to do full backups daily. Additionally, you must reduce the amount of time needed to complete a restore if needed.

What st	trategy should you use?
	Full backups daily
	Full/differential
	Full/incremental
	Daily copies
stra data com How	correct. A full/differential backup strategy takes longer to backup up during the week than a full/incremental tegy. However, the recovery time is reduced because a maximum of two backups is needed to recover the a. A, C, and D are incorrect. Performing full backups daily would not reduce the amount of time needed to uplete backups. A full/incremental back strategy minimizes the time needed for backups during the week. Wever, the recovery can take longer because multiple backups may be needed to be restored to recover the a. Daily copies would not reduce the amount of time needed to complete backups.

Question 16	1 / 1 pts
A vulnerability assessment reported a vulnerability, but investigation shows that the vulnerability does not actu What is this called?	ually exist.
A false positive	
A false negative	
A penetration test failure	
A penetration test success	

A is correct. A false positive occurs when a vulnerability assessment indicates that a vulnerability exists even though it doesn't. B, C, and D are incorrect. A false negative occurs when a vulnerability assessment indicates that a vulnerability doesn't exist even though it does. A vulnerability assessment result does not indicate success or failure of a penetration test.

Question 17	1 / 1 pts
An organization wants to ensure that users are aware of what they can and cannot do with IT systems owned and controlled by the organization. What should be used to document these guidelines?	d
A security policy	
A configuration control policy	
An acceptable use policy	
A backup policy	
C is correct. An acceptable use policy lets users know what they can and cannot do with IT systems owned a controlled by the organization. A, B, and D are incorrect. A security policy may include an acceptable use po but more often a separate use policy is implemented. A configuration control policy identifies procedures for configuration control, such as the use of images for baselines. A backup policy identifies what data should be backed up and how long data should be retained.	licy,

Question 18 1 / 1 pts

Use a RAID	implementation on the server
Create a fail	lover cluster
Create redu	andant connections
Identify an a	alternate location
can ensure that are incorrect. subsystems. I	A failover cluster provides fault tolerance for one or more servers. A simple two-node failover cluster at if one server fails, the other server is available to take over without any loss of service. A, C, and D A Redundant Array of Independent/Inexpensive Disks (RAID) provides fault tolerance for disk Redundant connections provide fault tolerance for network connections. An alternate location can be ster affects the entire site or location.

Question 19	1 / 1 pts
What type of controls is an Intrusion Detection System (IDS)?	
O Administrative	
○ Corrective	
Detective	
O Preventive	

C is correct. An intrusion detection system (IDS) is detective in nature because it attempts to detect attacks that are in progress and provide notifications. A, B, and D are incorrect. Administrative controls focus on the management of risk and the management of IT security using managerial practices and written documents. A corrective control takes action to reverse the effects or impact of an event. A preventive control is focused on preventing losses due to risks. An intrusion prevention systems (IPS, not mentioned in this question) is both detective and corrective in nature because it can take actions to block detected attacks but it must detect the attack first.

Question 20	1 / 1 pts
Of the following choices, what is NOT an example of a detective control?	
O Audit logs	
Employee background checks	
Intrusion detection systems	
Forensics analysis	
B is correct. An employee background check is a preventive control, not a detective control. A, C, and D are incorrect. All are examples of detective controls.	

Quiz Score: 17 out of 20