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

Due Oct 30 at 12:59am Points 20 Questions 20 Available Oct 16 at 12am - Oct 31 at 12:59am Time Limit 45 Minutes
Allowed Attempts 2

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	5 minutes	20 out of 20
LATEST	Attempt 2	5 minutes	20 out of 20
	Attempt 1	14 minutes	17 out of 20

Score for this attempt: **20** out of 20 Submitted Oct 25 at 11:03am This attempt took 5 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	
orrect!	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	
Correct!	Signature-based IDS	
	O HIPS	
	○ NIPS	
	B is correct. A signature-based intrusion detection system (IDS) compares activity to a signature file to identi attacks. A, C, and D are incorrect. An anomaly-based IDS requires a baseline. Both a host-based IPS (HIPS a network-based IPS (NIPS) can use either anomaly-based or signature-based detection methods.	•

An organization wants to monitor a server for intrusions. What should be used?

HIDS

Correct!

NIDS	
Antivirus	software
Host-bas	ed firewall
on the host system (NID	A host-based IDS (HIDS) is installed on a system such as a server or workstation. It monitors activibut cannot monitor network activity. B, C, and D are incorrect. A network-based intrusion detection (S) monitors traffic going through a network. It uses agents to monitor traffic on routers and switches, into forward the traffic to a central management console. Antivirus software monitors for malware. A

	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	
Correct!	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 chasome components. What be done to ensure that the IDS can accurately detect events?	anging
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 to of a baseline, so if the normal behavior is modified by changing the environment, the baseline must be upda B, and C are incorrect. It is not necessary to reinstall or upgrade the IDS. A signature-based (not anomaly-left detection method uses signatures.	ted. A,

Question 6

1 / 1 pts

	Question 7	1 / 1 pts
	C is correct. An intrusion detection system is a detective control, not a preventive control. A, B, and D are incorrect. All of these answers are example of preventive controls.	
	○ Encryption of data	
orrect!	Intrusion detection system	
	Employee background checks	
	Written policies and procedures	

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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.

Question 8	1 / 1 pts
Attackers recently attacked a web server hosted within a demilitarized zone (DMZ). The network was protected firewalls and intrusion detection systems, with each component logging events and forwarding some of the logs 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 th attack. A, B, and D are incorrect. Any logs on a local sysem should be treated with suspicion because the a may have modified them.	

Question 9

1 / 1 pts

Which of the following best describes a technical control? A control that 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 A is correct. A technical control is a control that uses technical means within computer systems to reduce risk. B, C, and D are incorrect. Nontechnical controls include user training and written documents such as security policies. A technical control is not necessarily highly complex. Technical controls can be preventive, detective,

Question 10

Of the following choices, what is not a valid method of detection used by HIDSs?

Anomaly-based

Signature-based

Correct!

Reporting-based

Knowledge-based

corrective, or a combination of these.

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?	
Correct!	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) monitoring traffic going through a network. It uses agents monitoring traffic on routers and switches, and the agents for	ward
	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.	A

1 / 1 pts

Question 12

Full backups daily	
Full/differential	
Full/incremental	
O Daily copies	
the recovery can take longer because multiple backups may need to be restored to recover are incorrect. Performing full backups daily would not reduce the amount of time needs full/differential backup strategy takes longer to back up during the week than a full/incre	over the data. A, B, and D ed to complete backups. A mental strategy. However,
	Daily copies C is correct. A full/incremental backup strategy minimizes the time needed for backups the recovery can take longer because multiple backups may need to be restored to recover incorrect. Performing full backups daily would not reduce the amount of time needefull/differential backup strategy takes longer to back up during the week than a full/incret the recovery time is reduced because a maximum of two backups are needed to recovery.

Forensic analysis

A backup and restore procedures

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.

1 / 1 pts **Question 14** Your organization is considering restricting the software that can run on several isolated systems to specific applications. What is this called? 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 or services. A, B, and D are incorrect. Signature-based and anomaly-based are two types of detection methods for intrusion detection systems (IDS) and intrusion prevention systems (IPS), but they don't use whitelisting. Media access control (MAC) filtering is another type of whitelisting, but used MAC addresses to restrict traffic to specific systems.

Question 15 1 / 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.

Module 6 Assessment (Monitoring and Analysis & Countermeasures and Controls p3rd): IS337 31277 - F23 - Information Assurance I What strategy should you use? Full backups daily Correct! Full/differential Full/incremental Daily copies B is correct. A full/differential backup strategy takes longer to backup up during the week than a full/incremental strategy. However, the recovery time is reduced because a maximum of two backups is needed to recover the data. A, C, and D are incorrect. Performing full backups daily would not reduce the amount of time needed to

complete backups. A full/incremental back strategy minimizes the time needed for backups during the week. However, the recovery can take longer because multiple backups may be needed to be restored to recover the data. 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 actually exist. What is this called?
Correct!	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.

A security policy	
A configuration control	l policy
An acceptable use po	icy
A backup policy	

Question 18 1 / 1 pts

	A critical database server is hosting data for a web farm. A recent outage on the database server resulted in substantial losses for the organization. You're asked what can be done to prevent a similar incident in the future. What do you suggest?
	Use a RAID implementation on the server
Correct!	Create a failover cluster
	Create redundant connections
	O Identify an alternate location
	B is correct. A failover cluster provides fault tolerance for one or more servers. A simple two-node failover cluster can ensure that if one server fails, the other server is available to take over without any loss of service. A, C, and D are incorrect. A Redundant Array of Independent/Inexpensive Disks (RAID) provides fault tolerance for disk subsystems. Redundant connections provide fault tolerance for network connections. An alternate location can be used if a disaster affects the entire site or location.
	Question 19 1 / 1 pts
	What type of controls is an Intrusion Detection System (IDS)?
	 Administrative
	○ Corrective
Correct!	Detective

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	
Correct!	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: 20 out of 20