27/5/2019 Test_C3-C4

An toan thong tin_ HKII-18-19

Started on	Wednesday, 3 April 2019, 8:26 PM
State	Finished
Completed on	Wednesday, 3 April 2019, 8:51 PM
Time taken	24 mins 38 secs
Marks	30.00/30.00
Grade	10.00 out of 10.00 (100 %)

Question 1

Correct

Mark 1.00 out of 1.00

A vulnerability scan is reporting that patches are missing on a server. After a review, it is determined that the application requiring the patch does not exist on the operating system. Which of the following describes this cause?

Select one:

- a. Baseline code review
 - b. False negative
- c. False positive
- d. Application hardening

Your answer is correct.

The correct answer is: False positive

Question 2

Correct

Mark 1.00 out of 1.00

An analyst is reviewing a simple program for potential security vulnerabilities before being deployed to a Windows server. Given the following code:

```
void foo (char *bar)
{
  char random_user_input [12];
  strcpy (random_user_input, bar);
}
```

Which of the following vulnerabilities is present?

Select one:

- a. Buffer overflow
- b. Integer overflow
- c. Backdoor
- d. Bad memory pointer

Your answer is correct.

The correct answer is: Buffer overflow

Correct

Mark 1.00 out of 1.00

Which of the following preventative controls would be appropriate for responding to a directive to reduce the attack surface of a specific host?

Select one:

- a. Disabling unnecessary services Preventive controls are to stop something from happening. These can include locked doors that keep intruders out, user training on potential harm (to keep them vigilant and alert), or even biometric devices and guards that deny access until authentication has occurred. By disabling all unnecessary services you would be reducing the attack surface because then there is less opportunity for risk incidents to happen. There are many risks with having many services enabled since a service can provide an attack vector that someone could exploit against your system. It is thus best practice to enable only those services that are absolutely required.
- b. Taking a baseline configuration
- c. Installing anti-malware
- d. Implementing an IDS

Your answer is correct.

The correct answer is: Disabling unnecessary services

Question 4

Correct

Mark 1.00 out of 1.00

Data execution prevention is a feature in most operating systems intended to protect against which type of attack?

Select one:

- a. Buffer overflow
- b. Cross-site scripting
- c. SQL injection
- d. Header manipulation

Your answer is correct.

The correct answer is: Buffer overflow

Question 5

Correct

Mark 1.00 out of 1.00

If you declare an array as A[100] in C and you try to write data to A[555], what will happen?

Select one:

- a. Whatever is at A[555] will be overwritten
- b. There will always be a runtime error
- c. The C compiler will give you an error and won't compile
- d. Nothing

Your answer is correct.

The correct answer is: Whatever is at A[555] will be overwritten

Question 6 A recent audit had revealed weaknesses in the process of deploying new servers and network devices. Which of the following practices could be used to increase the Correct security posture during deployment? (Select TWO). Mark 1.00 out of 1.00 Select one or more: a. Deploy a honeypot b. Disable unnecessary services c. Penetration testing d. Change default password 4 e. Implement an application firewall Your answer is correct. The correct answers are: Disable unnecessary services, Change default password Ouestion 7 A recent audit has revealed weaknesses in the process of deploying new servers and network devices. Which of the following practices could be used to increase the Correct security posture during deployment? (Select TWO). Mark 1.00 out of 1.00 Select one or more: a. Change default passwords b. Implement an application firewall c. Deploy a honeypot d. Disable unnecessary services 4 e. Penetration testing Your answer is correct. The correct answers are: Disable unnecessary services, Change default passwords

Question **8**

Correct

Mark 1.00 out of 1.00

Which of the following risk mitigation strategies will allow Ann, a security analyst, to enforce least privilege principles?

Select one:

- a. User rights reviews A least privilege policy should be used when assigning permissions. Give users only the permissions and rights that they need to do their work and no more.
- b. Annual loss expectancy
- c. Incident management
- d. Risk based controls

Your answer is correct.

The correct answer is: User rights reviews

Correct

Mark 1.00 out of 1.00

A Human Resources user is issued a virtual desktop typically assigned to Accounting employees. A system administrator wants to disable certain services and remove the local accounting groups installed by default on this virtual machine. The system administrator is adhering to which of the following security best practices?

Select one:

- a. Patch Management
- b. Black listing applications
- C. Operating System hardening Operating System hardening is the process of securing the operating system by reducing its surface of vulnerability. Reducing the surface of vulnerability typically includes removing unnecessary functions and features, removing unnecessary usernames or logins and disabling unnecessary services.
- d. Mandatory Access Control

Your answer is correct.

The correct answer is: Operating System hardening

Question 10

Correct

Mark 1.00 out of 1.00

An IT security technician needs to establish host based security for company workstations. Which of the following will BEST meet this requirement?

Select one:

- a. Implement perimeter firewall rules to restrict access.
- b. Implement database hardening by applying vendor guidelines.
- c. Implement OS hardening by applying GPOs. Hardening is the process of securing a system by reducing its surface of vulnerability. Reducing the surface of vulnerability typically includes removing or disabling unnecessary functions and features, removing or disabling unnecessary user accounts, disabling unnecessary protocols and ports, and disabling unnecessary services. This can be implemented using the native security features of an operating system, such as Group Policy Objects (GPOs).
- d. Implement IIS hardening by restricting service accounts.

Your answer is correct.

The correct answer is: Implement OS hardening by applying GPOs.

Question $oldsymbol{11}$

Correct

Mark 1.00 out of 1.00

Failure to validate the size of a variable before writing it to memory could result in which of the following application attacks?

Select one:

- a. SQL injection
- b. Cross-site scripting
- c. Buffer overflow
- d. Malicious logic

Your answer is correct.

The correct answer is: Buffer overflow

Question 12

Correct

Mark 1.00 out of 1.00

Which of the following ports will be used for logging into secure websites?

Select one:

- a. 443
- b. 80
- c. 142
- d. 110

Your answer is correct.

The correct answer is: 443

Question 13

Correct

Mark 1.00 out of 1.00

Which of the following describes the process of removing unnecessary accounts and services from an application to reduce risk exposure?

Select one:

- a. Application hardening
- b. Cross-site script prevention
- c. Application patch management
- d. Error and exception handling

Your answer is correct.

The correct answer is: Application hardening

Question 14 Which of the following is a software vulnerability that can be avoided by using input validation? Correct Mark 1.00 out of Select one: 1.00 a. Buffer overflow b. Application fuzzing c. Incorrect input (0) d. Error handling Your answer is correct. The correct answer is: Incorrect input Question 15 Which of the following ports is used for TELNET by default? Correct Select one: Mark 1.00 out of a. 21 1.00 b. 23 (0) c. 22 d. 20 Your answer is correct. The correct answer is: 23 Question 16 A server administrator notes that a legacy application often stops running due to a memory error. When reviewing the debugging logs, they notice code being run calling Correct an internal process to exploit the machine. Which of the following attacks does this Mark 1.00 out of describe? 1.00 Select one: a. Zero-day b. Malicious add-on c. Cross site scripting d. Buffer overflow Your answer is correct.

The correct answer is: Buffer overflow

Question 17 Correct Mark 1.00 out of 1.00 A network security engineer notices unusual traffic on the network from a single IP attempting to access systems on port 23. Port 23 is not used anywhere on the network. Which of the following should the engineer do to harden the network from this type of intrusion in the future? Select one: a. Enable auditing on event logs

Your answer is correct.

(0)

The correct answer is: Disable unnecessary services on servers

c. Disable unnecessary services on servers

Question 18

Correct

Mark 1.00 out of 1.00

What is likely to happen if you find a buffer overflow during testing by entering a random, long string for a C program?

b. Implement password requirements on servers and network devices

d. Disable unused accounts on servers and network devices

Select one or more:

- a. The program crashes
- b. Data is corrupted
- c. The C fairy sprinkles magic memory dust on the memory that was overwritten and makes everything okay again.
- d. The program gives you a "Buffer overflow at line X" error

Your answer is correct.

The correct answers are: Data is corrupted, The program crashes

Question 19

Correct

Mark 1.00 out of 1.00

Which of the following protocols is the security administrator observing in this packet capture?

12:33:43, SRC 192.168.4.3:3389, DST 10.67.33.20:8080, SYN/ACK

Select one:

- a. HTTP
- b. HTTPS
- c. RDP
- d. SFTP

Your answer is correct.

The correct answer is: RDP

Mark 1.00 out of 1.00	Select one or more: a. Mandatory vacation b. Separation of duties c. Job rotation d. Time of day restrictions e. Least privilege
	Your answer is correct. The correct answers are: Separation of duties, Least privilege
Question 21 Correct Mark 1.00 out of 1.00	Which of the following concepts allows an organization to group large numbers of servers together in order to deliver a common service? Select one: a. Cold site b. Clustering Anytime you connect multiple computers to work/act together as a single server, it is known as clustering. Clustered systems utilize parallel processing (improving performance and availability) and add redundancy (but also add costs). Clustering is done whenever you connect multiple computers to work and act together as a single server. It is meant to utilize parallel processing and can also add to redundancy. c. RAID d. Backup Redundancy
	Your answer is correct. The correct answer is: Clustering

Which of the following, if properly implemented, would prevent users from accessing

files that are unrelated to their job duties? (Select TWO).

Question 20

Correct

Correct

Mark 1.00 out of 1.00

One of the system administrators at a company is assigned to maintain a secure computer lab. The administrator has rights to configure machines, install software, and perform user account maintenance. However, the administrator cannot add new computers to the domain, because that requires authorization from the Information Assurance Officer. This is an example of which of the following?

Select one:

- a. Rule-based access control
- b. Least privilege A least privilege policy should be used when assigning permissions. Give users only the permissions that they need to do their work and no more.
- c. Job rotation
- d. Mandatory access

Your answer is correct.

The correct answer is: Least privilege

Question 23

Correct

Mark 1.00 out of 1.00

A web server hosted on the Internet was recently attacked, exploiting a vulnerability in the operating system. The operating system vendor assisted in the incident investigation and verified the vulnerability was not previously known. What type of attack was this?

Select one:

- a. Distributed denial-of-service
- b. Zero-day exploit
- c. Botnet
- d. Denial-of-service

Your answer is correct.

The correct answer is: Zero-day exploit

Question 24

Correct

Mark 1.00 out of 1.00

Which of the following is an example of a false positive?

Select one:

- a. A user account is locked out after the user mistypes the password too many times.
- b. A biometric iris scanner rejects an authorized user wearing a new contact lens.
- c. The IDS does not identify a buffer overflow
- d. Anti-virus identifies a benign application as malware.

Your answer is correct.

The correct answer is: Anti-virus identifies a benign application as malware.

Correct

Mark 1.00 out of 1.00

Which of the following provides the BEST application availability and is easily expanded as demand grows?

Select one:

- a. Load balancing Load balancing is a way of providing high availability by splitting the workload across multiple computers.
- b. Server virtualization
- c. RAID 6
- d. Active-Passive Cluster

Your answer is correct.

The correct answer is: Load balancing

Question 26

Correct

Mark 1.00 out of 1.00

A security administrator is investigating a recent server breach. The breach occurred as a result of a zero-day attack against a user program running on the server. Which of the following logs should the administrator search for information regarding the breach?

Select one:

- a. System log
- b. Application log
- c. Authentication log
- d. Setup log

Your answer is correct.

The correct answer is: Application log

Question 27

Correct

Mark 1.00 out of 1.00

Disabling unnecessary services, restricting administrative access, and enabling auditing controls on a server are forms of which of the following?

Select one:

- a. Creating a security baseline
- b. Application patch management
- c. Cross-site scripting prevention
- d. System hardening Hardening is the process of securing a system by reducing its surface of vulnerability. Reducing the surface of vulnerability typically includes removing or disabling unnecessary

functions and features, removing or disabling unnecessary user accounts, disabling unnecessary protocols and ports, and disabling unnecessary services.

Your answer is correct.

The correct answer is: System hardening

Question 28 Correct Mark 1.00 out of 1.00 A malicious individual is attempting to write too much data to an application's memory. Which of the following describes this type of attack? Select one: a. Buffer overflow b. SQL injection c. Zero-day d. XSRF

Your answer is correct.

The correct answer is: Buffer overflow

Question 29

Correct

Mark 1.00 out of 1.00

After an assessment, auditors recommended that an application hosting company should contract with additional data providers for redundant high speed Internet connections. Which of the following is MOST likely the reason for this recommendation? (Select TWO).

Select one or more:

- a. To improve intranet communication speeds
- b. To allow for business continuity if one provider goes out of business
- c. To allow load balancing for cloud support
- d. To allow for a hot site in case of disaster
- e. To eliminate a single point of failure A high-speed internet connection to a second data provider could be used to keep an up-to-date replicate of the main site. In case of problem on the first site, operation can quickly switch to the second site. This eliminates the single point of failure and allows the business to continue uninterrupted on the second site.

Your answer is correct.

The correct answers are: To allow for business continuity if one provider goes out of business, To eliminate a single point of failure

Correct

Mark 1.00 out of 1.00

Ann, the software security engineer, works for a major software vendor. Which of the following practices should be implemented to help prevent race conditions, buffer overflows, and other similar vulnerabilities prior to each production release?

Select one:

- a. Input validation
- b. Product baseline report
- c. Patch regression testing
- d. Code review

Your answer is correct.

The correct answer is: Code review

◆ Chapter 4 - LAB_Step-by-Step Exploit OS Vulnerability - MS12_020

Test_1 - 60 minutes. Begin: 15h30 ->16h45. Ngày 4/4/2019 ▶

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