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Started on	Wednesday, 25 May 2022, 9:03 AM
State	Finished
Completed on	Wednesday, 25 May 2022, 9:22 AM
Time taken	19 mins 9 secs
Marks	43/56
Grade	77 out of 100
Feedback	<p>Well done! You have passed the assessment.</p> <p>Please go to this page to give feedback on the LtO platform.</p>

Question 1

Complete

Mark 1 out of 2

Why should you have multiple backups of data?

- ☐ a. Storage costs are cheaper than they used to be in the past
- ☐ b. The process of backup doesn't consume compute resource
- ☐ c. It allows you to split your data in devices as a measure against stealing the full version of the data.
- ☒ d. It's a measure against ransomware
- ☒ e. It allows you to recover from data corruption

Question 2

Complete

Mark 1 out of 2

What are the concerns with using self-signed certificates?

- ☐ a. Servers using self-signed certificates are prone to man-in-the-middle attacks
- ☐ b. Information in the certificate may belong to the employee instead of the organisation
- ☐ c. Self-signed certificates are more costly than non self-signed certificates
- ☒ d. Attackers can create a duplicate server and self-sign it so it is seen as identical to the original server
- ☒ e. Websites using self-signed certificates can present warnings to users which may drive them away

Question 3

Complete

Mark 3 out of 3

A security finding which is false positive means a security issue which is present wasn't discovered as part of the findings.

Select one:

- ☐ True
- ☒ False

Question 4

Complete

Mark 1 out of 2

Which of the following statements about web proxies is/are true?

- ☐ a. Proxies can be used to block an organisation's users from accessing social media platforms such as Facebook
- ☐ b. Proxies provide a way for security logging and auditing
- ☒ c. Web Application Firewalls are typically reverse proxies
- ☒ d. Proxies can be used to hide your IP address from your request target
- ☐ e. Proxies do not typically support user authentication

Question 5

Complete

Mark 1 out of 2

Which of the following are good use cases for functional programming as opposed to object-oriented-programming?

- ☐ a. To have access to more community plugin, tools and examples
- ☒ b. It avoids sharing state which is useful for concurrency
- ☐ c. To make the code easier to read and maintain
- ☒ d. To create methods which can be combined in modular way
- ☐ e. To write code which will be efficient in CPU and memory use

Question 6

Complete

Mark 1 out of 2

Which of the following are bad examples of error messages to display when the wrong password is inputted into login pages?

Select all that apply.

- ☒ a. Incorrect password provided. The account has been disabled.
- ☐ b. Username or password was incorrect. Please try again.
- ☐ c. Old password was used. Please try again.
- ☐ d. The username doesn't match the password. Please try again.
- ☒ e. Invalid User ID used. Please try again.
- ☐ f. Incorrect password provided. Please try again.

Question 7

Complete

Mark 3 out of 3

In terms of security, deny-lists are better than allow-lists.

Select one:

- ☐ True
- ☒ False

Question 8

Complete

Mark 3 out of 3

XML files allow inputs to be taken from users which can potentially lead to the disclosure of confidential data.

Select one:

- ☒ True
- ☐ False

Question 9

Complete

Mark 3 out of 3

It is generally an acceptable practice to add easter eggs or special function in code as a “signature”

Select one:

- ☐ True
- ☒ False

Question 10

Complete

Mark 0 out of 2

Which of the following statements about security tools in a CI/CD pipeline is true?

- ☐ a. CI/CD pipeline setup with security toolchain could potentially be exploited by attackers
- ☐ b. Integration to vulnerability management platforms allows automatic remediation of vulnerabilities found in CI/CD pipelines
- ☐ c. Threat modelling is not required if the CI/CD pipeline has expansive security testing
- ☒ d. Automated penetration testing (e.g. with Dynamic Application Security Testing) in a CI/CD pipeline can be used as a replacement for traditional penetration testing
- ☒ e. CI/CD pipeline with security tools embedded can protect against all vulnerabilities

Question 11

Complete

Mark 3 out of 3

A Git repository can be local or remote.

Select one:

- ☒ True
- ☐ False

Question 12

Complete

Mark 2 out of 2

Why should you separate or implement isolation between development/test/production environments?

- ☒ a. To implement separation of duties for management of production vs non-production environment
- ☐ b. To prevent attackers from moving between environments
- ☒ c. It's best practice according to the zero trust network model
- ☒ d. To prevent attackers targeting a development/test environment at an early stage of development to have backdoor access to the production environment in future
- ☐ e. To allow easy duplication of data from one environment to another

Question 13

Complete

Mark 3 out of 3

Using a corporate VPN to access a corporate internal network means that the internal network itself is also secured.

Select one:

- ☐ True
- ☒ False

Question 14

Complete

Mark 3 out of 3

One of the benefits of source code repositories is that they allow multiple team members to work on multiple files at the same time.

Select one:

- ☒ True
- ☐ False

Question 15

Complete

Mark 1 out of 2

Hardware Secure Modules (HSMs) are used for which of the following reasons?

- ☒ a. To meet regulatory compliance
- ☐ b. To generate keys with randomness derived from software-based source of entropy
- ☒ c. To store private keys for high value cryptocurrencies
- ☐ d. They are cheaper than cloud based security vaults or self-hosted secrets vaults such as HashiCorp Vault
- ☐ e. To achieve high level of data security in tamper resistant hardware device

Question 16

Complete

Mark 3 out of 3

A Distributed Denial of Service (DDoS) attack sends massive amounts of traffic to a server using multiple computers or machines, such as IoT devices.

Select one:

- ☒ True
- ☐ False

Question 17

Complete

Mark 3 out of 3

Input validation is a method used to defend against malicious inputs which are provided by users in input fields.

Select one:

- ☒ True
- ☐ False

Question 18

Complete

Mark 1 out of 1

Which of the following regarding serverless computing is/are true?

- ☒ a. It can be cheaper than running your application on Kubernetes Environment
- ☐ b. Developers/Operations writing serverless applications don't have to build in and configure scalability
- ☒ c. Application runtime for programming languages such as JAVA and Python are typically provided by serverless providers
- ☐ d. You typically pay for resources as consumed by the application, plus any idle period
- ☐ e. It means the serverless programs or applications that you write do not run in any servers owned by you or cloud service providers

Question 19

Complete

Mark 1 out of 1

Which of the following are security concerns relating to file upload functionality in a web application?

- ☒ a. Large file size
- ☐ b. Number of files being uploaded
- ☐ c. Device file was created in
- ☒ d. Special characters present in name
- ☐ e. Long file name

Question 20

Complete

Mark 1 out of 2

Which of the following are benefits of containers over traditional Virtual Machines (VM)?

- ☐ a. They are better suited for CI/CD implementation
- ☒ b. Multiple containers use less disk space as they share hardware resources
- ☒ c. It is quicker to deploy and run a container as it's more portable
- ☐ d. Each container has its own separate kernel
- ☐ e. They are more isolated thus more secure

Question 21

Complete

Mark 1 out of 2

Match the following use cases to the right HTTP security headers.

To enforce the use of secure connection over TLS.	Strict-Transport-Security
To protect against clickjacking attacks.	Cache-Control
To specify which dynamic and external resources are allowed.	Content-Security-Policy
To specify the type of the response (such as application/json).	Content-Type
To enforce the use of a cross-site scripting filter in modern browsers.	X-XSS-Protection
To instruct the client not to store sensitive information.	Content-Security-Policy

Question 22

Complete

Mark 2 out of 2

Which of the following describes a SQL injection?

- ☒ a. An attacker places malicious code in a SQL statement
- ☒ b. An attacker enters a variable into a SQL query as instructed
- ☐ c. An attacker tries to guess the administrator password to the database
- ☐ d. An attacker listens for passwords over a network
- ☐ e. An attacker accesses a publicly exposed database to inject data

Question 23

Complete

Mark 1 out of 1

Which of the following are use-cases of homomorphic encryption?

- ☒ a. It allows computation on data without having to decrypt the data first
- ☒ b. It can be used to transparently tally up election results before results are published
- ☐ c. It can be used to save computation time over traditional encryption
- ☐ d. It allows sharing of unencrypted data for analytics without privacy concerns
- ☐ e. It allows data to be manipulated in untrusted sources or domains

Question 24

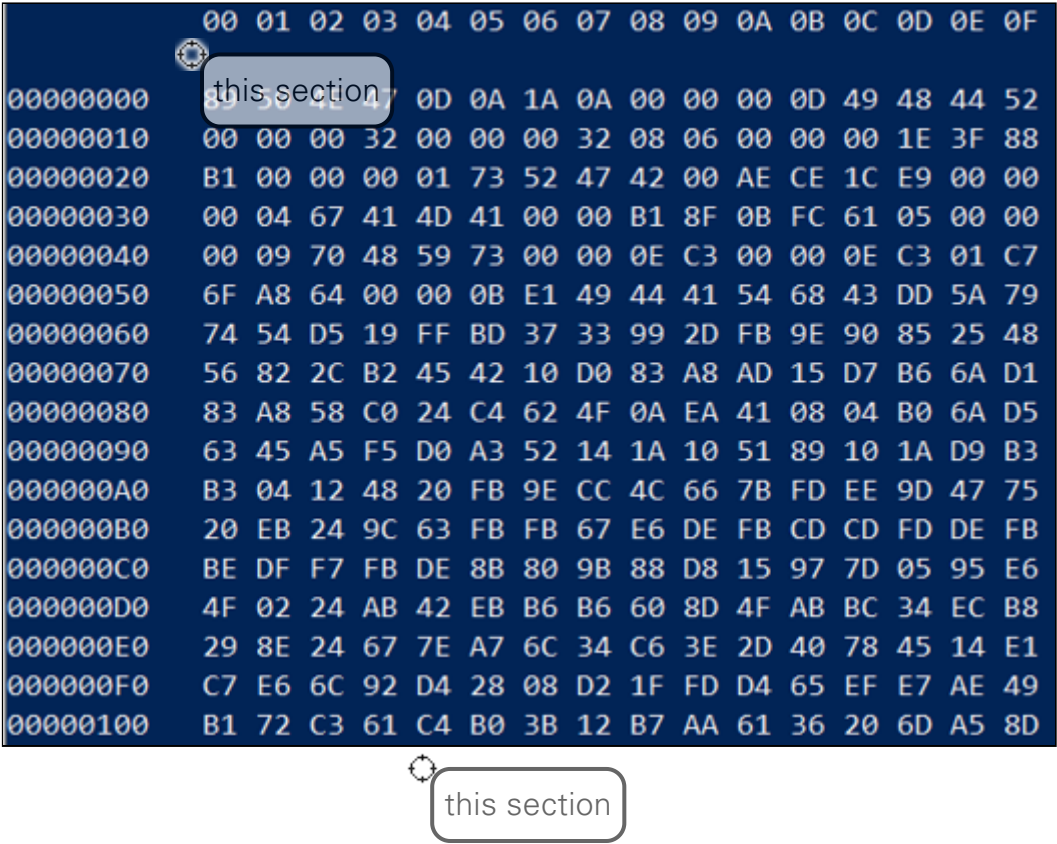
Complete

Mark 1 out of 1

The following is the hexadecimal representation of a file. For example, in Windows Powershell running “Format-Hex-Path .\file” will give this output.

Select the area(s) in the picture which will reveal what the file type is by dragging and dropping the option provided.

Ensure the target circle is in the section of your choice.



Question 25

Complete

Mark 0 out of 3

A Denial of Service (DoS) attack sends a shut-down signal to a computer or server.

Select one:

- ☐ True
- ☐ False

