

Question 1

Complete

Mark 1 out of 1

Flag question

Which of the following practices are examples of DevOps ways of working?

- ☐ a. Delivery teams taking ownership for the quality of the product
- ☒ b. Enabling application development teams to automate their work and adopt everything-as-code
- ☐ c. Enabling an organisation to rapidly respond to changes in their customer demand
- ☒ d. Breaking down silos and barriers between application development teams such as developers and operations
- ☐ e. Enabling application development teams to install all the tools they require

Question 2

Complete

Mark 3 out of 3

Flag question

Web Application Firewalls can help protect against the kind of threats found in OWASP Top 10.

Select one:

- ☒ True
- ☐ False

Question 3

Complete

Mark 2 out of 2

Flag question

Which of the following are characteristics of hypervisors?

- ☐ a. Type 2 hypervisors are more efficient than Type 1 hypervisors
- ☒ b. It allows multiple operating systems to run on a server at once
- ☒ c. VirtualBox, VMWare ESXi, and Hyper-V are examples of hypervisors
- ☒ d. Some hypervisors run as applications on top of the existing operating system
- ☒ e. Some hypervisors have direct access to the physical hardware such as CPU, memory, storage

Question 4

Not answered

Marked out of 2

Flag question

Shared Responsibility is a model adopted in Cloud Computing whereby customers' operational burden is taken over by the Cloud Service Providers to varying degrees.

Construct an IaaS model by dragging and dropping responsibilities for the underlying cloud computing resources to the respective boxes.



(Did not attempt this)

Question 5

Complete

Mark 0 out of 3

🚩 Flag
question

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

Select one:

- ☒ True
- ☐ False

Question 6

Complete

Mark 0 out of 1

🚩 Flag
question

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

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

Question 7

Complete

Mark 1 out of 2

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question

Which of the following are controls you can use against malicious users sending large and unsustainable amount of requests to your application forms?

- ☒ a. Make use of CAPTCHA
- ☐ b. Send back payloads for Denial of Service which stops the attacker
- ☐ c. Implement account lockouts
- ☒ d. Add progressive delays between attempts
- ☐ e. Restrict account access based on personal characteristics (such as marital status)

Question 8

Complete

Mark 1 out of 2

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question

Why should you have multiple backups of data?

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

Question 9

Complete

Mark 1 out of 2

Flag question

Which of the following are potential sources of malwares through 'supply chain poisoning'?

- ☐ a. CI/CD pipeline plugins
- ☐ b. Images found in Dockerhub
- ☒ c. IoT devices
- ☐ d. Public repositories for third party libraries
- ☒ e. Mobile applications downloaded outside of an app store

Question 10

Complete

Mark 1 out of 1

Flag question

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 11

Complete

Mark 3 out of 3

Flag question

Integrity is about protecting resources against unauthorised changes and ensuring that the resources are not tampered with.

Select one:

- ☒ True
- ☐ False

Question 12

Complete

Mark 3 out of 3

Flag question

Using prepared statements will prevent all SQL injection attacks.

Select one:

- ☐ True
- ☒ False

Question 13

Complete

Mark 3 out of 3

Flag question

User credentials can be added to remote source code repositories if the repository is for internal team access.

Select one:

- ☐ True
- ☒ False

Question 14

Complete

Mark 1 out of 2

Flag
question

Which of the following statements regarding Data Loss Prevention (DLP) technologies are true?

- ☒ a. They can prevent ransomware attacks by detecting and blocking file access patterns
- ☐ b. They backup data for an organisation to recover from disaster
- ☐ c. They can decrypt encrypted data even if they don't have the keys to do so
- ☐ d. They monitor data in transit, data at rest, and data in use for security policy violation
- ☐ e. They target attackers who may be insiders of the organisation

Question 15

Complete

Mark 3 out of 3

Flag
question

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 16

Complete

Mark 3 out of 3

Flag
question

A Git repository can be local or remote.

Select one:

- ☒ True
- ☐ False

Question 17

Complete

Mark 1 out of 1

Flag question

Which of the following are goals of fault injection attacks on devices such as smart cameras and smart cards?

- ☐ a. Transferring data to another device
- ☒ b. Bypassing encryption
- ☐ c. Turning off debug mode
- ☒ d. Bypassing security booting sequence
- ☐ e. Running arbitrary code on device

Question 18

Complete

Mark 2 out of 2

Flag question

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

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

Question 19

Complete

Mark 3 out of 3

Flag question

Availability means providing authorised users with access to the system or resources they need.

Select one:

- ☒ True
- ☐ False

Question 20

Complete

Mark 3 out of 3

Flag question

Address Resolution Protocol (ARP) translates an IP address to a domain name.

Select one:

- ☐ True
- ☒ False

Question 21

Complete

Mark 3 out of 3

Flag question

It is a generally good practice to require Multi Factor Authentication to carry out privileged activities such as changing your password, and deleting a user.

Select one:

- ☒ True
- ☐ False

Question 22

Complete

Mark 2 out of 2

🚩 Flag question

Which of the following describes a SQL injection?

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

Question 23

Complete

Mark 1 out of 2

🚩 Flag question

What is the purpose of a secret management solution such as a vault?

- ☒ a. It allows central managing of secrets for multiple environments
- ☐ b. It can prevent ssh access to a server with username/password pairs
- ☐ c. It removes the need to have any credentials or roles in a server to access secrets
- ☐ d. It can provide temporary credentials to use in an application
- ☐ e. It can prevent copying of sensitive files stored in a server

Question 24

Complete

Mark 1 out of 2

🚩 Flag question

Which of the following is correct about configuration drift?

- ☐ a. Dealing with configuration drift means consistent infrastructure in development, test and staging environments
- ☐ b. Immutable infrastructure can be a measure against configuration drift
- ☐ c. Configuration drift facilitates disaster recovery from failure
- ☐ d. It means there is a divergent between infrastructure and original configuration
- ☒ e. Using infrastructure as code and images to deploy VMs in a cloud environment is an example of implementation to prevent configuration drift

Question 25

Complete

Mark 0 out of 2

🚩 Flag question

Select the branching strategy with the wrong description.

- ☐ a. Bugfix – branch which should be long lived to store bugfixes, kept updated, and always be current
- ☒ b. Release – a set of changes that are intended to go through the production release process
- ☐ c. Trunk – each developer continuously commits small commits to the branch which passes a set of integration tests
- ☒ d. Feature – stores all changes for a particular topic in a separate branch to merge to the main/master once tested