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Question 1

Question Type: MultipleChoice

SCENARIO

Wesley Energy has finally made its move, acquiring the venerable oil and gas exploration firm Lancelot from its long-time owner David Wilson. As a member of the transition team, you have come to realize that Wilson's quirky nature affected even Lancelot's data practices, which are maddeningly inconsistent. "The old man hired and fired IT people like he was changing his necktie," one of Wilson's seasoned lieutenants tells you, as you identify the traces of initiatives left half complete.

For instance, while some proprietary data and personal information on clients and employees is encrypted, other sensitive information, including health information from surveillance testing of employees for toxic exposures, remains unencrypted, particularly when included within longer records with less-sensitive data. You also find that data is scattered across applications, servers and facilities in a manner that at first glance seems almost random.

Among your preliminary findings of the condition of data at Lancelot are the following:

- * Cloud technology is supplied by vendors around the world, including firms that you have not heard of. You are told by a former Lancelot employee that these vendors operate with divergent security requirements and protocols.
- * The company's proprietary recovery process for shale oil is stored on servers among a variety of less-sensitive information that can be accessed not only by scientists, but by personnel of all types at most company locations.
- * DES is the strongest encryption algorithm currently used for any file.
- * Several company facilities lack physical security controls, beyond visitor check-in, which familiar vendors often bypass.

* Fixing all of this will take work, but first you need to grasp the scope of the mess and formulate a plan of action to address it.

Which procedure should be employed to identify the types and locations of data held by Wesley Energy?

Options:

- A) Privacy audit.
- B) Log collection
- C) Data inventory.
- D) Data classification.

Answer:

C

Question 2

Question Type: MultipleChoice

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Which is true regarding the type of encryption Lancelot uses?

Options:

- A) It employs the data scrambling technique known as obfuscation.
- B) Its decryption key is derived from its encryption key.
- C) It uses a single key for encryption and decryption.
- D) It is a data masking methodology.

Answer:

A

Explanation:

<https://www.techopedia.com/definition/25015/data-obfuscation-do>

Question 3

Question Type: MultipleChoice

SCENARIO

It should be the most secure location housing data in all of Europe, if not the world. The Global Finance Data Collective (GFDC) stores financial information and other types of client data from large banks, insurance companies, multinational corporations and governmental agencies. After a long climb on a mountain road that leads only to the facility, you arrive at the security booth. Your credentials are checked and checked again by the guard to visually verify that you are the person pictured on your passport and national identification card. You are led down a long corridor with server rooms on each side, secured by combination locks built into the doors. You climb a flight of stairs and are led into an office that is lighted brilliantly by skylights where the GFDC Director of Security, Dr. Monique Batch, greets you. On the far wall you notice a bank of video screens showing different rooms in the facility. At the far end, several screens show different sections of the road up the mountain

Dr. Batch explains once again your mission. As a data security auditor and consultant, it is a dream assignment: The GFDC does not want simply adequate controls, but the best and most effective security that current technologies allow.

"We were hacked twice last year," Dr. Batch says, "and although only a small number of records were stolen, the bad press impacted our business. Our clients count on us to provide security that is nothing short of impenetrable and to do so quietly. We hope to never make the news again." She notes that it is also essential that the facility is in compliance with all relevant security regulations and standards.

You have been asked to verify compliance as well as to evaluate all current security controls and security measures, including data encryption methods, authentication controls and the safest methods for transferring data into and out of the facility. As you prepare to begin your analysis, you find yourself considering an intriguing question: Can these people be sure that I am who I say I am?

You are shown to the office made available to you and are provided with system login information, including the name of the wireless network and a wireless key. Still pondering, you attempt to pull up the facility's wireless network, but no networks appear in the wireless list. When you search for the wireless network by name, however it is readily found.

What measures can protect client information stored at GFDC?

Options:

- A) De-linking of data into client-specific packets.
- B) Cloud-based applications.
- C) Server-side controls.
- D) Data pruning

Answer:

A

Question 4

Question Type: MultipleChoice

What is the best way to protect privacy on a geographic information system?

Options:

- A) Limiting the data provided to the system.

- B) Using a wireless encryption protocol.
- C) Scrambling location information.
- D) Using a firewall.

Answer:

A

Explanation:

https://www.researchgate.net/publication/2873114_Protecting_Personal_Privacy_in_Using_Geographic_Information_Systems

Question 5

Question Type: MultipleChoice

SCENARIO

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Options:

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- B) Log collection
- C) Data inventory.
- D) Data classification.

Answer:

C

Question 6

Question Type: MultipleChoice

SCENARIO

Clean-Q is a company that offers house-hold and office cleaning services. The company receives requests from consumers via their website and telephone, to book cleaning services. Based on the type and size of service, Clean-Q then contracts individuals that are registered on its resource database - currently managed in-house by Clean-Q IT Support. Because of Clean-Q's business model, resources are contracted as needed instead of permanently employed.

The table below indicates some of the personal information Clean-Q requires as part of its business operations:

Category	Types of Personal Information
Customers	Name, address (location), contact information, billing information
Resources (contracted)	Name, contact information, banking details, address

Clean-Q has an internal employee base of about 30 people. A recent privacy compliance exercise has been conducted to align employee data management and human resource functions with applicable data protection regulation. Therefore, the Clean-Q permanent employee base is not included as part of this scenario.

With an increase in construction work and housing developments, Clean-Q has had an influx of requests for cleaning services. The demand has overwhelmed Clean-Q's traditional supply and demand system that has caused some overlapping bookings.

In a business strategy session held by senior management recently, Clean-Q invited vendors to present potential solutions to their current operational issues. These vendors included Application developers and Cloud-Q's solution providers, presenting their proposed solutions and platforms.

The Managing Director opted to initiate the process to integrate Clean-Q's operations with a cloud solution (LeadOps) that will provide the following solution one single online platform: A web interface that Clean-Q accesses for the purposes of resource and customer management. This would entail uploading resource and customer information.

- * A customer facing web interface that enables customers to register, manage and submit cleaning service requests online.
- * A resource facing web interface that enables resources to apply and manage their assigned jobs.
- * An online payment facility for customers to pay for services.

Considering that LeadOps will host/process personal information on behalf of Clean-Q remotely, what is an appropriate next step for Clean-Q senior management to assess LeadOps' appropriateness?

Options:

- A) Nothing at this stage as the Managing Director has made a decision.
- B) Determine if any Clean-Q competitors currently use LeadOps as a solution.
- C) Obtain a legal opinion from an external law firm on contracts management.
- D) Involve the Information Security team to understand in more detail the types of services and solutions LeadOps is proposing.

Answer:

D

Question 7

Question Type: MultipleChoice

SCENARIO

WebTracker Limited is a cloud-based online marketing service located in London. Last year, WebTracker migrated its IT infrastructure to the cloud provider AmaZure, which provides SQL Databases and Artificial Intelligence services to WebTracker. The roles and responsibilities between the two companies have been formalized in a standard contract, which includes allocating the role of data controller to WebTracker.

The CEO of WebTracker, Mr. Bond, would like to assess the effectiveness of AmaZure's privacy controls, and he recently decided to hire you as an independent auditor. The scope of the engagement is limited only to the marketing services provided by WebTracker, you will not be evaluating any internal data processing activity, such as HR or Payroll.

This ad-hoc audit was triggered due to a future partnership between WebTracker and SmartHome --- a partnership that will not require any data sharing. SmartHome is based in the USA, and most recently has dedicated substantial resources to developing smart refrigerators that can suggest the recommended daily calorie intake based on DNA information. This and other personal data is collected by WebTracker.

To get an idea of the scope of work involved, you have decided to start reviewing the company's documentation and interviewing key staff to understand potential privacy risks.

The results of this initial work include the following notes:

- * There are several typos in the current privacy notice of WebTracker, and you were not able to find the privacy notice for SmartHome.
- * You were unable to identify all the sub-processors working for SmartHome. No subcontractor is indicated in the cloud agreement with AmaZure, which is responsible for the support and maintenance of the cloud infrastructure.
- * There are data flows representing personal data being collected from the internal employees of WebTracker, including an interface from the HR system.
- * Part of the DNA data collected by WebTracker was from employees, as this was a prototype approved by the CEO of WebTracker.

* All the WebTracker and SmartHome customers are based in USA and Canada.

Based on the initial assessment and review of the available data flows, which of the following would be the most important privacy risk you should investigate first?

Options:

- A) Verify that WebTracker's HR and Payroll systems implement the current privacy notice (after the typos are fixed).
- B) Review the list of subcontractors employed by AmaZure and ensure these are included in the formal agreement with WebTracker.
- C) Evaluate and review the basis for processing employees' personal data in the context of the prototype created by WebTracker and approved by the CEO.
- D) Confirm whether the data transfer from London to the USA has been fully approved by AmaZure and the appropriate institutions in the USA and the European Union.

Answer:

C

Question 8

Question Type: MultipleChoice

SCENARIO

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- * A customer facing web interface that enables customers to register, manage and submit cleaning service requests online.
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- * An online payment facility for customers to pay for services.

What is a key consideration for assessing external service providers like LeadOps, which will conduct personal information processing operations on Clean-Q's behalf?

Options:

- A) Understanding LeadOps' costing model.
- B) Establishing a relationship with the Managing Director of LeadOps.
- C) Recognizing the value of LeadOps' website holding a verified security certificate.
- D) Obtaining knowledge of LeadOps' information handling practices and information security environment.

Answer:

D

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