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Cloud Security

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QUESTION 1

With the rapid emergence of cloud computing, very few regulations were in place that pertained to it specifically, and organizations often had to resort to using a collection of regulations that were not specific to cloud in order to drive audits and policies.

Which standard from the ISO/IEC was designed specifically for cloud computing?

- A. ISO/IEC 27001
- B. ISO/IEC 19889
- C. ISO/IEC 27001:2015
- D. ISO/IEC 27018

Correct Answer: D

ISO/IEC 27018 was implemented to address the protection of personal and sensitive information within a cloud environment. ISO/IEC 27001 and its later 27001:2015 revision are both general-purpose data security standards. ISO/IEC 19889 is an erroneous answer.

QUESTION 2

Which OSI layer does IPsec operate at?

- A. Network
- B. transport
- C. Application
- D. Presentation

Correct Answer: A

A major difference between IPsec and other protocols such as TLS is that IPsec operates at the Internet network layer rather than the application layer, allowing for complete end-to-end encryption of all communications and traffic.

QUESTION 3

Above and beyond general regulations for data privacy and protection, certain types of data are subjected to more rigorous regulations and oversight.

Which of the following is not a regulatory framework for more sensitive or specialized data?

- A. FIPS 140-2
- B. FedRAMP
- C. PCI DSS



D. HIPAA

Correct Answer: A

The FIPS 140-2 standard pertains to the certification of cryptographic modules and is not a regulatory framework. The Payment Card Industry Data Security Standard (PCI DSS), the Federal Risk and Authorization Management Program (FedRAMP), and the Health Insurance Portability and Accountability Act (HIPAA) are all regulatory frameworks for sensitive or specialized data.

QUESTION 4

Which aspect of cloud computing makes it very difficult to perform repeat audits over time to track changes and compliance?

- A. Virtualization
- B. Multitenancy
- C. Resource pooling
- D. Dynamic optimization

Correct Answer: A

Cloud environments will regularly change virtual machines as patching and versions are changed. Unlike a physical environment, there is little continuity from one period of time to another. It is very unlikely that the same virtual machines would be in use during a repeat audit.

QUESTION 5

GAAPs are created and maintained by which organization?

- A. ISO/IEC
- B. AICPA
- C. PCI Council
- D. ISO

Correct Answer: B

The AICPA is the organization responsible for generating and maintaining what are the Generally Accepted Accounting Practices in the United States.

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