

## CCSP<sup>Q&As</sup>

Cloud Security

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## QUESTION 1

What type of security threat is DNSSEC designed to prevent?

- A. Account hijacking
- B. Snooping
- C. Spoofing
- D. Injection

Correct Answer: C

DNSSEC is designed to prevent the spoofing and redirection of DNS resolutions to rogue sites.

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## QUESTION 2

Which of the cloud deployment models involves spanning multiple cloud environments or a mix of cloud hosting models?

- A. Community
- B. Public
- C. Hybrid
- D. Private

Correct Answer: C

A hybrid cloud model involves the use of more than one type of cloud hosting models, typically the mix of private and public cloud hosting models.

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## QUESTION 3

Humidity levels for a data center are a prime concern for maintaining electrical and computing resources properly as well as ensuring that conditions are optimal for top performance.

Which of the following is the optimal humidity level, as established by ASHRAE?

- A. 20 to 40 percent relative humidity
- B. 50 to 75 percent relative humidity
- C. 40 to 60 percent relative humidity
- D. 30 to 50 percent relative humidity

Correct Answer: C

The American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) recommends 40 to 60 percent relative humidity for data centers. None of these options is the recommendation from ASHRAE.

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#### QUESTION 4

The European Union is often considered the world leader in regard to the privacy of personal data and has declared privacy to be a "human right."

In what year did the EU first assert this principle?

- A. 1995
- B. 2000
- C. 2010
- D. 1999

Correct Answer: A

The EU passed Directive 95/46 EC in 1995, which established data privacy as a human right. The other years listed are incorrect.

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#### QUESTION 5

When using a PaaS solution, what is the capability provided to the customer?

- A. To deploy onto the cloud infrastructure consumer-created or acquired applications created using programming languages, libraries, services, and tools that the provider supports. The provider does not manage or control the underlying cloud infrastructure, including network, servers, operating systems, or storage, but has control over the deployed applications and possibly configuration settings for the application-hosting environment.
- B. To deploy onto the cloud infrastructure consumer-created or acquired applications created using programming languages, libraries, services, and tools that the provider supports. The consumer does not manage or control the underlying cloud infrastructure, including network, servers, operating systems, or storage, but has control over the deployed applications and possibly configuration settings for the application-hosting environment.
- C. To deploy onto the cloud infrastructure consumer-created or acquired applications created using programming languages, libraries, services, and tools that the consumer supports. The consumer does not manage or control the underlying cloud infrastructure, including network, servers, operating systems, or storage, but has control over the deployed applications and possibly configuration settings for the application-hosting environment.
- D. To deploy onto the cloud infrastructure provider-created or acquired applications created using programming languages, libraries, services, and tools that the provider supports. The consumer does not manage or control the underlying cloud infrastructure, including network, servers, operating systems, or storage, but has control over the deployed applications and possibly configuration settings for the application-hosting environment.

Correct Answer: B

According to "The NIST Definition of Cloud Computing," in PaaS, "the capability provided to the consumer is to deploy onto the cloud infrastructure consumer-created or acquired applications created using programming languages, libraries, services, and tools supported by the provider. The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems, or storage, but has control over the deployed applications

and possibly configuration settings for the application-hosting environment.

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## QUESTION 6

Which data state would be most likely to use TLS as a protection mechanism?

- A. Data in use
- B. Data at rest
- C. Archived
- D. Data in transit

Correct Answer: D

TLS would be used with data in transit, when packets are exchanged between clients or services and sent across a network. During the data-in-use state, the data is already protected via a technology such as TLS as it is exchanged over the network and then relies on other technologies such as digital signatures for protection while being used. The data-at-rest state primarily uses encryption for stored file objects. Archived data would be the same as data at rest.

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## QUESTION 7

The most pragmatic option for data disposal in the cloud is which of the following?

- A. Cryptoshredding
- B. Overwriting
- C. Cold fusion
- D. Melting

Correct Answer: A

We don't have physical ownership, control, or even access to the devices holding the data, so physical destruction, including melting, is not an option. Overwriting is a possibility, but it is complicated by the difficulty of locating all the sectors and storage areas that might have contained our data, and by the likelihood that constant backups in the cloud increase the chance we'll miss something as it's being overwritten. Cryptoshredding is the only reasonable alternative. Cold fusion is a red herring.

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## QUESTION 8

What process is used within a cloud environment to maintain resource balancing and ensure that resources are available where and when needed?

- A. Dynamic clustering
- B. Dynamic balancing
- C. Dynamic resource scheduling

D. Dynamic optimization

Correct Answer: D

Dynamic optimization is the process through which the cloud environment is constantly maintained to ensure resources are available when and where needed, and that physical nodes do not become overloaded or near capacity, while others are underutilized.

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## QUESTION 9

Which regulatory system pertains to the protection of healthcare data?

- A. HIPAA
- B. HAS
- C. HITECH
- D. HFCA

Correct Answer: A

The Health Insurance Portability and Accountability Act (HIPAA) sets stringent requirements in the United States for the protection of healthcare records.

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## QUESTION 10

Which of the following best describes SAML?

- A. A standard used for directory synchronization
- B. A standard for developing secure application management logistics
- C. A standard for exchanging usernames and passwords across devices.
- D. A standards for exchanging authentication and authorization data between security domains.

Correct Answer: D

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## QUESTION 11

Which of the following is not an example of a highly regulated environment?

- A. Financial services
- B. Healthcare
- C. Public companies
- D. Wholesale or distribution

Correct Answer: D

Wholesalers or distributors are generally not regulated, although the products they sell may be.

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## QUESTION 12

Which of the following is considered a technological control?

- A. Firewall software
- B. Firing personnel
- C. Fireproof safe
- D. Fire extinguisher

Correct Answer: A

A firewall is a technological control. The safe and extinguisher are physical controls and firing someone is an administrative control.

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## QUESTION 13

At which stage of the BCDR plan creation phase should security be included in discussions?

- A. Define scope
- B. Analyze
- C. Assess risk
- D. Gather requirements

Correct Answer: A

Security should be included in discussions from the very first phase when defining the scope. Adding security later is likely to incur additional costs in time and money, or will result in an incomplete or inadequate plan.

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## QUESTION 14

Which of the following is NOT a component of access control?

- A. Accounting
- B. Federation
- C. Authorization
- D. Authentication

Correct Answer: B

Federation is not a component of access control. Instead, it is used to allow users possessing credentials from other authorities and systems to access services outside of their domain. This allows for access and trust without the need to create additional, local credentials. Access control encompasses not only the key concepts of authorization and authentication, but also accounting. Accounting consists of collecting and maintaining logs for both authentication and authorization for operational and regulatory requirements.

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## QUESTION 15

Which of the following is a commonly used tool for maintaining system configurations?

- A. Maestro
- B. Orchestrator
- C. Puppet
- D. Conductor

Correct Answer: C

Puppet is a commonly used tool for maintaining system configurations based on policies, and done so from a centralized authority.

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