

Exam Questions CCSP

Certified Cloud Security Professional

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NEW QUESTION 1

- (Exam Topic 4)

All of the following are techniques to enhance the portability of cloud data, in order to minimize the potential of vendor lock-in except:

- A. Ensure there are no physical limitations to moving
- B. Use DRM and DLP solutions widely throughout the cloud operation
- C. Ensure favorable contract terms to support portability
- D. Avoid proprietary data formats

Answer: B

Explanation:

DRM and DLP are used for increased authentication/access control and egress monitoring, respectively, and would actually decrease portability instead of enhancing it.

NEW QUESTION 2

- (Exam Topic 4)

The cloud customer will have the most control of their data and systems, and the cloud provider will have the least amount of responsibility, in which cloud computing arrangement?

- A. IaaS
- B. SaaS
- C. Community cloud
- D. PaaS

Answer: A

Explanation:

IaaS entails the cloud customer installing and maintaining the OS, programs, and data; PaaS has the customer installing programs and data; in SaaS, the customer only uploads data. In a community cloud, data and device owners are distributed.

NEW QUESTION 3

- (Exam Topic 4)

Which of the following storage types is most closely associated with a database-type storage implementation?

- A. Object
- B. Unstructured
- C. Volume
- D. Structured

Answer: D

Explanation:

Structured storage involves organized and categorized data, which most closely resembles and operates like a database system would.

NEW QUESTION 4

- (Exam Topic 4)

Which of the following are distinguishing characteristics of a managed service provider?

- A. Be able to remotely monitor and manage objects for the customer and proactively maintain these objects under management.
- B. Have some form of a help desk but no NOC.
- C. Be able to remotely monitor and manage objects for the customer and reactively maintain these objects under management.
- D. Have some form of a NOC but no help desk.

Answer: A

Explanation:

According to the MSP Alliance, typically MSPs have the following distinguishing characteristics:

- Have some form of NOC service
- Have some form of help desk service
- Can remotely monitor and manage all or a majority of the objects for the customer
- Can proactively maintain the objects under management for the customer
- Can deliver these solutions with some form of predictable billing model, where the customer knows with great accuracy what her regular IT management expense will be

NEW QUESTION 5

- (Exam Topic 4)

Which cloud service category most commonly uses client-side key management systems?

- A. Software as a Service
- B. Infrastructure as a Service
- C. Platform as a Service
- D. Desktop as a Service

Answer: A

Explanation:

SaaS most commonly uses client-side key management. With this type of implementation, the software for doing key management is supplied by the cloud provider, but is hosted and run by the cloud customer. This allows for full integration with the SaaS implementation, but also provides full control to the cloud customer. Although the cloud provider may offer software for performing key management to the cloud customers, with the Infrastructure, Platform, and Desktop as a Service categories, the customers would largely be responsible for their own options and implementations and would not be bound by the offerings from the cloud provider.

NEW QUESTION 6

- (Exam Topic 4)

When data discovery is undertaken, three main approaches or strategies are commonly used to determine what the type of data, its format, and composition are for the purposes of classification.

Which of the following is NOT one of the three main approaches to data discovery?

- A. Content analysis
- B. Hashing
- C. Labels
- D. Metadata

Answer: B

Explanation:

Hashing involves taking a block of data and, through the use of a one-way operation, producing a fixed-size value that can be used for comparison with other data. It is used primarily for protecting data and allowing for rapid comparison when matching data values such as passwords. Labels involve looking for header information or other categorizations of data to determine its type and possible classifications. Metadata involves looking at information attributes of the data, such as creator, application, type, and so on, in determining classification. Content analysis involves examining the actual data itself for its composition and classification level.

NEW QUESTION 7

- (Exam Topic 4)

Which of the following roles is responsible for creating cloud components and the testing and validation of services?

- A. Cloud auditor
- B. Inter-cloud provider
- C. Cloud service broker
- D. Cloud service developer

Answer: D

Explanation:

The cloud service developer is responsible for developing and creating cloud components and services, as well as for testing and validating services.

NEW QUESTION 8

- (Exam Topic 4)

What type of masking would you employ to produce a separate data set for testing purposes based on production data without any sensitive information?

- A. Dynamic
- B. Tokenized
- C. Replicated
- D. Static

Answer: D

Explanation:

Static masking involves taking a data set and replacing sensitive fields and values with non-sensitive or garbage data. This is done to enable testing of an application against data that resembles production data, both in size and format, but without containing anything sensitive. Dynamic masking involves the live and transactional masking of data while an application is using it. Tokenized would refer to tokenization, which is the replacing of sensitive data with a key value that can later be matched back to the original value, and although it could be used as part of the production of test data, it does not refer to the overall process. Replicated is provided as an erroneous answer, as replicated data would be identical in value and would not accomplish the production of a test set.

NEW QUESTION 9

- (Exam Topic 4)

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

Answer: D

Explanation:

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.

NEW QUESTION 10

- (Exam Topic 4)

Web application firewalls (WAFs) are designed primarily to protect applications from common attacks like:

- A. Ransomware
- B. Syn floods
- C. XSS and SQL injection
- D. Password cracking

Answer: C

Explanation:

WAFs detect how the application interacts with the environment, so they are optimal for detecting and refuting things like SQL injection and XSS. Password cracking, syn floods, and ransomware usually aren't taking place in the same way as injection and XSS, and they are better addressed with controls at the router and through the use of HIDS, NIDS, and antimalware tools.

NEW QUESTION 10

- (Exam Topic 4)

Which of the following provides assurance, to a predetermined acceptable level of certainty, that an entity is indeed who they claim to be?

- A. Authentication
- B. Identification
- C. Proofing
- D. Authorization

Answer: A

Explanation:

Authentication goes a step further than identification by providing a means for proving an entity's identification. Authentication is most commonly done through mechanisms such as passwords. Identification involves ascertaining who the entity is, but without a means of proving it, such as a name or user ID. Authorization occurs after authentication and sets access permissions and other privileges within a system or application for the user. Proofing is not a term that is relevant to the question.

NEW QUESTION 14

- (Exam Topic 4)

Tokenization requires two distinct _____.

- A. Personnel
- B. Authentication factors
- C. Encryption keys
- D. Databases

Answer: D

Explanation:

In order to implement tokenization, there will need to be two databases: the database containing the raw, original data, and the token database containing tokens that map to original data. Having two-factor authentication is nice, but certainly not required. Encryption keys are not necessary for tokenization. Two-person integrity does not have anything to do with tokenization.

NEW QUESTION 15

- (Exam Topic 4)

Which kind of SSAE audit report is most beneficial for a cloud customer, even though it's unlikely the cloud provider will share it?

- A. SOC 3
- B. SOC 1 Type 2
- C. SOC 2 Type 2
- D. SOC 1 Type 1

Answer: C

Explanation:

The SOC 3 is the least detailed, so the provider is not concerned about revealing it. The SOC 1 Types 1 and 2 are about financial reporting and not relevant. The SOC 2 Type 2 is much more detailed and will most likely be kept closely held by the provider.

NEW QUESTION 17

- (Exam Topic 4)

Cryptographic keys for encrypted data stored in the cloud should be _____.

- A. Not stored with the cloud provider.
- B. Generated with redundancy
- C. At least 128 bits long
- D. Split into groups

Answer: A

Explanation:

Cryptographic keys should not be stored along with the data they secure, regardless of key length. We don't split crypto keys or generate redundant keys (doing so would violate the principle of secrecy necessary for keys to serve their purpose).

NEW QUESTION 18

- (Exam Topic 4)

Which of the following best describes a cloud carrier?

- A. The intermediary who provides connectivity and transport of cloud providers and cloud consumers
- B. A person or entity responsible for making a cloud service available to consumers
- C. The person or entity responsible for transporting data across the Internet
- D. The person or entity responsible for keeping cloud services running for customers

Answer: A

Explanation:

A cloud carrier is the intermediary who provides connectivity and transport of cloud services between cloud providers and cloud customers.

NEW QUESTION 21

- (Exam Topic 4)

What is the Cloud Security Alliance Cloud Controls Matrix (CCM)?

- A. A set of software development life cycle requirements for cloud service providers
- B. An inventory of cloud services security controls that are arranged into a hierarchy of security domains
- C. An inventory of cloud service security controls that are arranged into separate security domains
- D. A set of regulatory requirements for cloud service providers

Answer: C

Explanation:

The CSA CCM is an inventory of cloud service security controls that are arranged into separate security domains, not a hierarchy.

NEW QUESTION 24

- (Exam Topic 4)

DLP solutions can aid in deterring loss due to which of the following?

- A. Inadvertent disclosure
- B. Natural disaster
- C. Randomization
- D. Device failure

Answer: A

Explanation:

DLP solutions may protect against inadvertent disclosure. Randomization is a technique for obscuring data, not a risk to data. DLP tools will not protect against risks from natural disasters, or against impacts due to device failure.

NEW QUESTION 26

- (Exam Topic 4)

What is the experimental technology that might lead to the possibility of processing encrypted data without having to decrypt it first?

- A. One-time pads
- B. Link encryption
- C. Homomorphic encryption
- D. AES

Answer: C

Explanation:

AES is an encryption standard. Link encryption is a method for protecting communications traffic. One-time pads are an encryption method.

NEW QUESTION 31

- (Exam Topic 4)

The WS-Security standards are built around all of the following standards except which one?

- A. SAML
- B. WDSL
- C. XML
- D. SOAP

Answer: A

Explanation:

The WS-Security specifications, as well as the WS-Federation system, are built upon XML, WDSL, and SOAP. SAML is a very similar protocol that is used as an alternative to WS.XML, WDSL, and SOAP are all integral to the WS-Security specifications.

NEW QUESTION 32

- (Exam Topic 4)

Which of the following frameworks focuses specifically on design implementation and management?

- A. ISO 31000:2009

- B. ISO 27017
- C. NIST 800-92
- D. HIPAA

Answer: A

Explanation:

ISO 31000:2009 specifically focuses on design implementation and management. HIPAA refers to health care regulations, NIST 800-92 is about log management, and ISO 27017 is about cloud specific security controls.

NEW QUESTION 34

- (Exam Topic 4)

Which data protection strategy would be useful for a situation where the ability to remove sensitive data from a set is needed, but a requirement to retain the ability to map back to the original values is also present?

- A. Masking
- B. Tokenization
- C. Encryption
- D. Anonymization

Answer: B

Explanation:

Tokenization involves the replacement of sensitive data fields with key or token values, which can ultimately be mapped back to the original, sensitive data values. Masking refers to the overall approach to covering sensitive data, and anonymization is a type of masking, where indirect identifiers are removed from a data set to prevent the mapping back of data to an individual. Encryption refers to the overall process of protecting data via key pairs and protecting confidentiality.

NEW QUESTION 37

- (Exam Topic 4)

What concept does the D represent within the STRIDE threat model?

- A. Denial of service
- B. Distributed
- C. Data breach
- D. Data loss

Answer: A

Explanation:

Any application can be a possible target of denial of service (DoS) attacks. From the application side, the developers should minimize how many operations are performed for unauthenticated users. This will keep the application running as quickly as possible and using the least amount of system resources to help minimize the impact of any such attacks. None of the other options provided is the correct term.

NEW QUESTION 40

- (Exam Topic 4)

All the following are data analytics modes, except:

- A. Datamining
- B. Agile business intelligence
- C. Refractory iterations
- D. Real-time analytics

Answer: C

Explanation:

All the others are data analytics methods, but "refractory iterations" is a nonsense term thrown in as a red herring.

NEW QUESTION 43

- (Exam Topic 4)

Gap analysis is performed for what reason?

- A. To begin the benchmarking process
- B. To assure proper accounting practices are being used
- C. To provide assurances to cloud customers
- D. To ensure all controls are in place and working properly

Answer: A

Explanation:

The primary purpose of the gap analysis is to begin the benchmarking process against risk and security standards and frameworks.

NEW QUESTION 44

- (Exam Topic 4)

Which of the following jurisdictions lacks a comprehensive national policy on data privacy and the protection of personally identifiable information (PII)?

- A. European Union
- B. Asian-Pacific Economic Cooperation
- C. United States
- D. Russia

Answer: C

Explanation:

The United States has a myriad of regulations focused on specific types of data, such as healthcare and financial, but lacks an overall comprehensive privacy law on the national level. The European Union, the Asian-Pacific Economic Cooperation, and Russia all have national privacy protections and regulations for the handling the PII data of their citizens.

NEW QUESTION 48

- (Exam Topic 4)

Which of the following are attributes of cloud computing?

- A. Minimal management effort and shared resources
- B. High cost and unique resources
- C. Rapid provisioning and slow release of resources
- D. Limited access and service provider interaction

Answer: A

Explanation:

Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.

NEW QUESTION 51

- (Exam Topic 4)

The different cloud service models have varying levels of responsibilities for functions and operations depending with the model's level of service. In which of the following models would the responsibility for patching lie predominantly with the cloud customer?

- A. DaaS
- B. SaaS
- C. PaaS
- D. IaaS

Answer: D

Explanation:

With Infrastructure as a Service (IaaS), the cloud customer is responsible for deploying and maintaining its own systems and virtual machines. Therefore, the customer is solely responsible for patching and any other security updates it finds necessary. With Software as a Service (SaaS), Platform as a Service (PaaS), and Desktop as a Service (DaaS), the cloud provider maintains the infrastructure components and is responsible for maintaining and patching them.

NEW QUESTION 54

- (Exam Topic 4)

The cloud customer's trust in the cloud provider can be enhanced by all of the following except:

- A. SLAs
- B. Shared administration
- C. Audits
- D. real-time video surveillance

Answer: D

Explanation:

Video surveillance will not provide meaningful information and will not enhance trust. All the others will do it.

NEW QUESTION 56

- (Exam Topic 4)

All of the following are terms used to describe the practice of obscuring original raw data so that only a portion is displayed for operational purposes, except:

- A. Tokenization
- B. Masking
- C. Data discovery
- D. Obfuscation

Answer: C

Explanation:

Data discovery is a term used to describe the process of identifying information according to specific traits or categories. The rest are all methods for obscuring data.

NEW QUESTION 60

- (Exam Topic 4)

Data labels could include all the following, except:

- A. Distribution limitations
- B. Multifactor authentication
- C. Confidentiality level
- D. Access restrictions

Answer: B

Explanation:

All the others might be included in data labels, but multifactor authentication is a procedure used for access control, not a label.

NEW QUESTION 64

- (Exam Topic 4)

What is the correct order of the phases of the data life cycle?

- A. Create, Use, Store, Share, Archive, Destroy
- B. Create, Archive, Store, Share, Use, Destroy
- C. Create, Store, Use, Archive, Share, Destroy
- D. Create, Store, Use, Share, Archive, Destroy

Answer: D

Explanation:

The other options are the names of the phases, but out of proper order.

NEW QUESTION 66

- (Exam Topic 4)

The GAPP framework was developed through a joint effort between the major Canadian and American professional accounting associations in order to assist their members with managing and preventing risks to the privacy of their data and customers. Which of the following is the meaning of GAPP?

- A. General accounting personal privacy
- B. Generally accepted privacy practices
- C. Generally accepted privacy principles
- D. General accounting privacy policies

Answer: C

NEW QUESTION 69

- (Exam Topic 4)

Which kind of SSAE audit report is a cloud customer most likely to receive from a cloud provider?

- A. SOC 1 Type 1
- B. SOC 2 Type 2
- C. SOC 3
- D. SOC 1 Type 2

Answer: C

Explanation:

The SOC 3 is the least detailed, so the provider is not concerned about revealing it. The SOC 1 Types 1 and 2 are about financial reporting, and not relevant. The SOC 2 Type 2 is much more detailed and will most likely be kept closely held by the provider.

NEW QUESTION 72

- (Exam Topic 4)

Your new CISO is placing increased importance and focus on regulatory compliance as your applications and systems move into cloud environments. Which of the following would NOT be a major focus of yours as you develop a project plan to focus on regulatory compliance?

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

Answer: D

Explanation:

The jurisdictions where data is being stored, processed, or consumed are the ones that dictate the regulatory frameworks and compliance requirements, regardless of who the data owner or custodian might be. The other concepts for protecting data would all play a prominent role in regulatory compliance with a move to the cloud environment. Each concept needs to be evaluated based on the new configurations as well as any potential changes in jurisdiction or requirements introduced with the move to a cloud.

NEW QUESTION 75

- (Exam Topic 4)

When an organization is considering a cloud environment for hosting BCDR solutions, which of the following would be the greatest concern?

- A. Self-service
- B. Resource pooling
- C. Availability

D. Location

Answer: D

Explanation:

If an organization wants to use a cloud service for BCDR, the location of the cloud hosting becomes a very important security consideration due to regulations and jurisdiction, which could be dramatically different from the organization's normal hosting locations. Availability is a hallmark of any cloud service provider, and likely will not be a prime consideration when an organization is considering using a cloud for BCDR; the same goes for self-service options. Resource pooling is common among all cloud systems and would not be a concern when an organization is dealing with the provisioning of resources during a disaster.

NEW QUESTION 76

- (Exam Topic 4)

Because cloud providers will not give detailed information out about their infrastructures and practices to the general public, they will often use established auditing reports to ensure public trust, where the reputation of the auditors serves for assurance.

Which type of audit reports can be used for general public trust assurances?

- A. SOC 2
- B. SAS-70
- C. SOC 3
- D. SOC 1

Answer: C

Explanation:

SOC Type 3 audit reports are very similar to SOC Type 2, with the exception that they are intended for general release and public audiences. SAS-70 audits have been deprecated. SOC Type 1 audit reports have a narrow scope and are intended for very limited release, whereas SOC Type 2 audit reports are intended for wider audiences but not general release.

NEW QUESTION 79

- (Exam Topic 4)

Which of the following report is most aligned with financial control audits?

- A. SSAE 16
- B. SOC 2
- C. SOC 1
- D. SOC 3

Answer: C

Explanation:

The SOC 1 report focuses primarily on controls associated with financial services. While IT controls are certainly part of most accounting systems today, the focus is on the controls around those financial systems.

NEW QUESTION 84

- (Exam Topic 4)

A localized incident or disaster can be addressed in a cost-effective manner by using which of the following?

- A. UPS
- B. Generators
- C. Joint operating agreements
- D. Strict adherence to applicable regulations

Answer: C

Explanation:

Joint operating agreements can provide nearby relocation sites so that a disruption limited to the organization's own facility and campus can be addressed at a different facility and campus. UPS and generators are not limited to serving needs for localized causes. Regulations do not promote cost savings and are not often the immediate concern during BC/DR activities.

NEW QUESTION 85

- (Exam Topic 4)

For performance purposes, OS monitoring should include all of the following except:

- A. Disk space
- B. Disk I/O usage
- C. CPU usage
- D. Print spooling

Answer: D

Explanation:

Print spooling is not a metric for system performance; all the rest are.

NEW QUESTION 89

- (Exam Topic 4)

When crafting plans and policies for data archiving, we should consider all of the following, except:

- A. The backup process
- B. Immediacy of the technology
- C. Archive location
- D. The format of the data

Answer: D

NEW QUESTION 91

- (Exam Topic 4)

What is a key capability or characteristic of PaaS?

- A. Support for a homogenous environment
- B. Support for a single programming language
- C. Ability to reduce lock-in
- D. Ability to manually scale

Answer: C

Explanation:

PaaS should have the following key capabilities and characteristics:

- Support multiple languages and frameworks: PaaS should support multiple programming languages and frameworks, thus enabling the developers to code in whichever language they prefer or the design requirements specify. In recent times, significant strides and efforts have been taken to ensure that open source stacks are both supported and utilized, thus reducing “lock-in” or issues with interoperability when changing CSPs.
- Multiple hosting environments: The ability to support a wide variety of underlying hosting environments for the platform is key to meeting customer requirements and demands. Whether public cloud, private cloud, local hypervisor, or bare metal, supporting multiple hosting environments allows the application developer or administrator to migrate the application when and as required. This can also be used as a form of contingency and continuity and to ensure the ongoing availability.
- Flexibility: Traditionally, platform providers provided features and requirements that they felt suited the client requirements, along with what suited their service offering and positioned them as the provider of choice, with limited options for the customers to move easily. This has changed drastically, with extensibility and flexibility now afforded to meeting the needs and requirements of developer audiences. This has been heavily influenced by open source, which allows relevant plug-ins to be quickly and efficiently introduced into the platform.
- Allow choice and reduce lock-in: PaaS learns from previous horror stories and restrictions, proprietary meant red tape, barriers, and restrictions on what developers could do when it came to migration or adding features and components to the platform. Although the requirement to code to specific APIs was made available by the providers, they could run their apps in various environments based on commonality and standard API structures, ensuring a level of consistency and quality for customers and users.
- Ability to auto-scale: This enables the application to seamlessly scale up and down as required to accommodate the cyclical demands of users. The platform will allocate resources and assign these to the application as required. This serves as a key driver for any seasonal organizations that experience spikes and drops in usage.

NEW QUESTION 95

- (Exam Topic 4)

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 support
- B. 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.
- C. To deploy onto the cloud infrastructure consumer-created or acquired applications created using programming languages, libraries, services, and tools that the provider support
- D. 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.
- E. To deploy onto the cloud infrastructure consumer-created or acquired applications created using programming languages, libraries, services, and tools that the consumer support
- F. 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.
- G. To deploy onto the cloud infrastructure provider-created or acquired applications created using programming languages, libraries, services, and tools that the provider support
- H. 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.

Answer: B

Explanation:

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.

NEW QUESTION 98

- (Exam Topic 4)

Which of the following methods of addressing risk is most associated with insurance?

- A. Mitigation
- B. Transference
- C. Avoidance
- D. Acceptance

Answer: B

Explanation:

Avoidance halts the business process, mitigation entails using controls to reduce risk, acceptance involves taking on the risk, and transference usually involves insurance.

NEW QUESTION 99

- (Exam Topic 4)

Which of the following is NOT considered a type of data loss?

- A. Data corruption
- B. Stolen by hackers
- C. Accidental deletion
- D. Lost or destroyed encryption keys

Answer: B

Explanation:

The exposure of data by hackers is considered a data breach. Data loss focuses on the data availability rather than security. Data loss occurs when data becomes lost, unavailable, or destroyed, when it should not have been.

NEW QUESTION 101

- (Exam Topic 4)

What concept does the A represent within the DREAD model?

- A. Affected users
- B. Authorization
- C. Authentication
- D. Affinity

Answer: A

Explanation:

The concept of affected users measures the percentage of users who would be impacted by a successful exploit. Scoring ranges from 0, which would impact no users, to 10, which would impact all users. None of the other options provided is the correct term.

NEW QUESTION 104

- (Exam Topic 4)

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

Answer: A

Explanation:

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.

NEW QUESTION 106

- (Exam Topic 4)

When a system needs to be exposed to the public Internet, what type of secure system would be used to perform only the desired operations?

- A. Firewall
- B. Proxy
- C. Honeypot
- D. Bastion

Answer: D

Explanation:

A bastion is a system that is exposed to the public Internet to perform a specific function, but it is highly restricted and secured to just that function. Any nonessential services and access are removed from the bastion so that security countermeasures and monitoring can be focused just on the bastion's specific duties. A honeypot is a system designed to look like a production system to entice attackers, but it does not contain any real data. It is used for learning about types of attacks and enabling countermeasures for them. A firewall is used within a network to limit access between IP addresses and ports. A proxy server provides additional security to and rulesets for network traffic that is allowed to pass through it to a service destination.

NEW QUESTION 108

- (Exam Topic 4)

What is the experimental technology that might lead to the possibility of processing encrypted data without having to decrypt it first?

- A. AES
- B. Link encryption
- C. One-time pads

D. Homomorphic encryption

Answer: D

Explanation:

AES is an encryption standard. Link encryption is a method for protecting communications traffic. One-time pads are an encryption method.

NEW QUESTION 110

- (Exam Topic 4)

What are SOC 1/SOC 2/SOC 3?

- A. Audit reports
- B. Risk management frameworks
- C. Access controls
- D. Software developments

Answer: A

Explanation:

An SOC 1 is a report on controls at a service organization that may be relevant to a user entity's internal control over financial reporting. An SOC 2 report is based on the existing SysTrust and WebTrust principles. The purpose of an SOC 2 report is to evaluate an organization's information systems relevant to security, availability, processing integrity, confidentiality, or privacy. An SOC 3 report is also based on the existing SysTrust and WebTrust principles, like a SOC 2 report. The difference is that the SOC 3 report does not detail the testing performed.

NEW QUESTION 112

- (Exam Topic 4)

Proper implementation of DLP solutions for successful function requires which of the following?

- A. Physical access limitations
- B. USB connectivity
- C. Accurate data categorization
- D. Physical presence

Answer: C

Explanation:

DLP tools need to be aware of which information to monitor and which requires categorization (usually done upon data creation, by the data owners). DLPs can be implemented with or without physical access or presence. USB connectivity has nothing to do with DLP solutions.

NEW QUESTION 117

- (Exam Topic 4)

On large distributed systems with pooled resources, cloud computing relies on extensive orchestration to maintain the environment and the constant provisioning of resources.

Which of the following is crucial to the orchestration and automation of networking resources within a cloud?

- A. DNSSEC
- B. DNS
- C. DCOM
- D. DHCP

Answer: D

Explanation:

The Dynamic Host Configuration Protocol (DHCP) automatically configures network settings for a host so that these settings do not need to be configured on the host statically. Given the rapid and programmatic provisioning of resources within a cloud environment, this capability is crucial to cloud operations. Both DNS and its security-integrity extension DNSSEC provide name resolution to IP addresses, but neither is used for the configuration of network settings on a host. DCOM refers to the Distributed Component Object Model, which was developed by Microsoft as a means to request services across a network, and is not used for network configurations at all.

NEW QUESTION 121

- (Exam Topic 4)

Which of the following are considered to be the building blocks of cloud computing?

- A. CPU, RAM, storage, and networking
- B. Data, CPU, RAM, and access control
- C. Data, access control, virtualization, and services
- D. Storage, networking, printing, and virtualization

Answer: A

NEW QUESTION 125

- (Exam Topic 4)

DLP solutions can aid in deterring loss due to which of the following?

- A. Power failure
- B. Performance
- C. Bad policy

D. Malicious disclosure

Answer: D

Explanation:

DLP tools can identify outbound traffic that violates the organization's policies. DLP will not protect against losses due to performance issues or power failures. The DLP solution must be configured according to the organization's policies, so bad policies will attenuate the effectiveness of DLP tools, not the other way around.

NEW QUESTION 127

- (Exam Topic 4)

Which of the following areas of responsibility would be shared between the cloud customer and cloud provider within the Software as a Service (SaaS) category?

- A. Data
- B. Governance
- C. Application
- D. Physical

Answer: C

Explanation:

With SaaS, the application is a shared responsibility between the cloud provider and cloud customer. Although the cloud provider is responsible for deploying, maintaining, and securing the application, the cloud customer does carry some responsibility for the configuration of users and options. Regardless of the cloud service category used, the physical environment is always the sole responsibility of the cloud provider. With all cloud service categories, the data and governance are always the sole responsibility of the cloud customer.

NEW QUESTION 130

- (Exam Topic 4)

Gathering business requirements can aid the organization in determining all of this information about organizational assets, except:

- A. Full inventory
- B. Criticality
- C. Value
- D. Usefulness

Answer: D

Explanation:

When we gather information about business requirements, we need to do a complete inventory, receive accurate valuation of assets (usually from the owners of those assets), and assess criticality; this collection of information does not tell us, objectively, how useful an asset is, however.

NEW QUESTION 135

- (Exam Topic 4)

All of these are methods of data discovery, except:

- A. Label-based
- B. User-based
- C. Content-based
- D. Metadata-based

Answer: B

Explanation:

All the others are valid methods of data discovery; user-based is a red herring with no meaning.

NEW QUESTION 137

- (Exam Topic 4)

Which of the following terms is not associated with cloud forensics?

- A. eDiscovery
- B. Chain of custody
- C. Analysis
- D. Plausibility

Answer: D

Explanation:

Plausibility, here, is a distractor and not specifically relevant to cloud forensics.

NEW QUESTION 141

- (Exam Topic 4)

When using an IaaS solution, what is the capability provided to the customer?

- A. To provision processing, storage, networks, and other fundamental computing resources when the consumer is able to deploy and run arbitrary software, which can include OSs and applications.
- B. To provision processing, storage, networks, and other fundamental computing resources when the auditor is able to deploy and run arbitrary software, which can include OSs and applications.

C. To provision processing, storage, networks, and other fundamental computing resources when the provider is able to deploy and run arbitrary software, which can include OSs and applications.

D. To provision processing, storage, networks, and other fundamental computing resources when the consumer is not able to deploy and run arbitrary software, which can include OSs and applications.

Answer: A

Explanation:

According to “The NIST Definition of Cloud Computing,” in IaaS, “the capability provided to the consumer is to provision processing, storage, networks, and other fundamental computing resources where the consumer is able to deploy and run arbitrary software, which can include operating systems and applications. The consumer does not manage or control the underlying cloud infrastructure but has control over operating systems, storage, and deployed applications; and possibly limited control of select networking components (e.g., host firewalls).

NEW QUESTION 143

- (Exam Topic 4)

When using an IaaS solution, what is a key benefit provided to the customer?

- A. Metered and priced on the basis of units consumed
- B. Increased energy and cooling system efficiencies
- C. Transferred cost of ownership
- D. The ability to scale up infrastructure services based on projected usage

Answer: A

Explanation:

IaaS has a number of key benefits for organizations, which include but are not limited to these: -- Usage is metered and priced on the basis of units (or instances) consumed. This can also be billed back to specific departments or functions.

- It has an ability to scale up and down infrastructure services based on actual usage. This is particularly useful and beneficial where there are significant spikes and dips within the usage curve for infrastructure.

- It has a reduced cost of ownership. There is no need to buy assets for everyday use, no loss of asset value over time, and reduced costs of maintenance and support.

- It has a reduced energy and cooling costs along with “green IT” environment effect with optimum use of IT resources and systems.

NEW QUESTION 146

- (Exam Topic 4)

Which aspect of data poses the biggest challenge to using automated tools for data discovery and programmatic data classification?

- A. Quantity
- B. Language
- C. Quality
- D. Number of courses

Answer: C

Explanation:

The biggest challenge for properly using any programmatic tools in data discovery is the actual quality of the data, including the data being uniform and well structured, labels being properly applied, and other similar facets. Without data being organized in such a manner, it is extremely difficult for programmatic tools to automatically synthesize and make determinations from it. The overall quantity of data, as well as the number of sources, does not pose an enormous challenge for data discovery programs, other than requiring a longer time to process the data. The language of the data itself should not matter to a program that is designed to process it, as long as the data is well formed and consistent.

NEW QUESTION 151

- (Exam Topic 4)

Which type of testing uses the same strategies and toolsets that hackers would use?

- A. Static
- B. Malicious
- C. Penetration
- D. Dynamic

Answer: C

Explanation:

Penetration testing involves using the same strategies and toolsets that hackers would use against a system to discover potential vulnerabilities. Although the term malicious captures much of the intent of penetration testing from the perspective of an attacker, it is not the best answer. Static and dynamic are two types of system testing--where static is done offline and with knowledge of the system, and dynamic is done on a live system without any previous knowledge associated--but neither describes the type of testing being asked for in the question.

NEW QUESTION 154

- (Exam Topic 4)

Without the extensive funds of a large corporation, a small-sized company could gain considerable and cost-effective services for which of the following concepts by moving to a cloud environment?

- A. Regulatory
- B. Security
- C. Testing
- D. Development

Answer: B

Explanation:

Cloud environments, regardless of the specific deployment model used, have extensive and robust security controls in place, especially in regard to physical and infrastructure security. A small company can leverage the extensive security controls and monitoring provided by a cloud provider, which they would unlikely ever be able to afford on their own. Moving to a cloud would not result in any gains for development and testing because these areas require the same rigor regardless of where deployment and hosting occur. Regulatory compliance in a cloud would not be a gain for an organization because it would likely result in additional oversight and auditing as well as require the organization to adapt to a new environment.

NEW QUESTION 156

- (Exam Topic 4)

The goals of SIEM solution implementation include all of the following, except:

- A. Dashboarding
- B. Performance enhancement
- C. Trend analysis
- D. Centralization of log streams

Answer: B

Explanation:

SIEM does not intend to provide any enhancement of performance; in fact, a SIEM solution may decrease performance because of additional overhead. All the rest are goals of SIEM implementations.

NEW QUESTION 159

- (Exam Topic 4)

Which of the following is NOT a commonly used communications method within cloud environments to secure data in transit?

- A. IPSec
- B. HTTPS
- C. VPN
- D. DNSSEC

Answer: D

Explanation:

DNSSEC is used as a security extension to DNS lookup queries in order to ensure the authenticity and authoritativeness of hostname resolutions, in order to prevent spoofing and redirection of traffic. Although it is a very important concept to be employed for security practices, it is not used to secure or encrypt data transmissions. HTTPS is the most commonly used security mechanism for data communications between clients and websites and web services. IPSec is less commonly used, but is also intended to secure communications between servers. VPN is commonly used to secure traffic into a network area or subnet for developers and administrative users.

NEW QUESTION 160

- (Exam Topic 4)

Which of the following would be considered an example of insufficient due diligence leading to security or operational problems when moving to a cloud?

- A. Monitoring
- B. Use of a remote key management system
- C. Programming languages used
- D. Reliance on physical network controls

Answer: D

Explanation:

Many organizations in a traditional data center make heavy use of physical network controls for security. Although this is a perfectly acceptable best practice in a traditional data center, this reliance is not something that will port to a cloud environment. The failure of an organization to properly understand and adapt to the difference in network controls when moving to a cloud will likely leave an application with security holes and vulnerabilities. The use of a remote key management system, monitoring, or certain programming languages would not constitute insufficient due diligence by itself.

NEW QUESTION 162

- (Exam Topic 4)

To protect data on user devices in a BYOD environment, the organization should consider requiring all the following, except:

- A. Multifactor authentication
- B. DLP agents
- C. Two-person integrity
- D. Local encryption

Answer: C

Explanation:

Although all the other options are ways to harden a mobile device, two-person integrity is a concept that has nothing to do with the topic, and, if implemented, would require everyone in your organization to walk around in pairs while using their mobile devices.

NEW QUESTION 163

- (Exam Topic 4)

For optimal security, trust zones are used for network segmentation and isolation. They allow for the separation of various systems and tiers, each with its own security level.

Which of the following is typically used to allow administrative personnel access to trust zones?

- A. IPSec
- B. SSH
- C. VPN
- D. TLS

Answer: C

Explanation:

Virtual private networks (VPNs) are used to provide administrative personnel with secure communication channels through security systems and into trust zones. They allow staff who perform system administration tasks to have access to ports and systems that are not allowed from the public Internet. IPSec is an encryption protocol for point-to-point communications at the network level, and may be used within a trust zone but not to give access into a trust zone. TLS enables encryption of communications between systems and services and would likely be used to secure the VPN communications, but it does not represent the overall concept being asked for in the question. SSH allows for secure shell access to systems, but not for general access into trust zones.

NEW QUESTION 167

- (Exam Topic 4)

Which of the following is the dominant driver behind the regulations to which a system or application must adhere?

- A. Data source
- B. Locality
- C. Contract
- D. SLA

Answer: B

Explanation:

The locality--or physical location and jurisdiction where the system or data resides--is the dominant driver of regulations. This may be based on the type of data contained within the application or the way in which the data is used. The contract and SLA both articulate requirements for regulatory compliance and the responsibilities for the cloud provider and cloud customer, but neither artifact defines the actual requirements. Instead, the contract and SLA merely form the official documentation between the cloud provider and cloud customer. The source of the data may place contractual requirements or best practice guidelines on its usage, but ultimately jurisdiction has legal force and greater authority.

NEW QUESTION 172

- (Exam Topic 4)

Just like the risk management process, the BCDR planning process has a defined sequence of steps and processes to follow to ensure the production of a comprehensive and successful plan.

Which of the following is the correct sequence of steps for a BCDR plan?

- A. Define scope, gather requirements, assess risk, implement
- B. Define scope, gather requirements, implement, assess risk
- C. Gather requirements, define scope, implement, assess risk
- D. Gather requirements, define scope, assess risk, implement

Answer: A

Explanation:

The correct sequence for a BCDR plan is to define the scope, gather requirements based on the scope, assess overall risk, and implement the plan. The other sequences provided are not in the correct order.

NEW QUESTION 176

- (Exam Topic 4)

Which protocol operates at the network layer and provides for full point-to-point encryption of all communications and transmissions?

- A. IPSec
- B. VPN
- C. SSL
- D. TLS

Answer: A

Explanation:

IPSec is a protocol for encrypting and authenticating packets during transmission between two parties and can involve any type of device, application, or service. The protocol performs both the authentication and negotiation of security policies between the two parties at the start of the connection and then maintains these policies throughout the lifetime of the connection. TLS operates at the application layer, not the network layer, and is widely used to secure communications between two parties. SSL is similar to TLS but has been deprecated. Although a VPN allows a secure channel for communications into a private network from an outside location, it's not a protocol.

NEW QUESTION 178

- (Exam Topic 4)

Maintenance mode requires all of these actions except:

- A. Remove all active production instances
- B. Ensure logging continues
- C. Initiate enhanced security controls
- D. Prevent new logins

Answer: C

Explanation:

While the other answers are all steps in moving from normal operations to maintenance mode, we do not necessarily initiate any enhanced security controls.

NEW QUESTION 183

- (Exam Topic 4)

User access to the cloud environment can be administered in all of the following ways except:

- A. Provider provides administration on behalf the customer
- B. Customer directly administers access
- C. Third party provides administration on behalf of the customer
- D. Customer provides administration on behalf of the provider

Answer: D

Explanation:

The customer does not administer on behalf of the provider. All the rest are possible options.

NEW QUESTION 188

- (Exam Topic 4)

What category of PII data can carry potential fines or even criminal charges for its improper use or disclosure?

- A. Protected
- B. Legal
- C. Regulated
- D. Contractual

Answer: C

Explanation:

Regulated PII data carries legal and jurisdictional requirements, along with official penalties for its misuse or disclosure, which can be either civil or criminal in nature. Legal and protected are similar terms, but neither is the correct answer in this case. Contractual requirements can carry financial or contractual impacts for the improper use or disclosure of PII data, but not legal or criminal penalties that are officially enforced.

NEW QUESTION 191

- (Exam Topic 4)

When an organization is considering the use of cloud services for BCDR planning and solutions, which of the following cloud concepts would be the most important?

- A. Reversibility
- B. Elasticity
- C. Interoperability
- D. Portability

Answer: D

Explanation:

Portability is the ability for a service or system to easily move among different cloud providers. This is essential for using a cloud solution for BCDR because vendor lock-in would inhibit easily moving and setting up services in the event of a disaster, or it would necessitate a large number of configuration or component changes to implement. Interoperability, or the ability to reuse components for other services or systems, would not be an important factor for BCDR. Reversibility, or the ability to remove all data quickly and completely from a cloud environment, would be important at the end of a disaster, but would not be important during setup and deployment. Elasticity, or the ability to resize resources to meet current demand, would be very beneficial to a BCDR situation, but not as vital as portability.

NEW QUESTION 195

- (Exam Topic 4)

With a federated identity system, what does the identity provider send information to after a successful authentication?

- A. Relying party
- B. Service originator
- C. Service relay
- D. Service relay

Answer: A

Explanation:

Upon successful authentication, the identity provider sends an assertion with appropriate attributes to the relying party to grant access and assign appropriate roles to the user. The other terms provided are similar sounding to the correct term but are not actual components of a federated system.

NEW QUESTION 198

- (Exam Topic 4)

BCDR strategies typically do not involve the entire operations of an organization, but only those deemed critical to their business. Which concept pertains to the amount of data and services needed to reach the predetermined level of operations?

- A. SRE
- B. RPO
- C. RSL
- D. RTO

Answer:

B

Explanation:

The recovery point objective (RPO) sets and defines the amount of data an organization must have available or accessible to reach the predetermined level of operations necessary during a BCDR situation. The recovery time objective (RTO) measures the amount of time necessary to recover operations to meet the BCDR plan. The recovery service level (RSL) measures the percentage of operations that would be recovered during a BCDR situation. SRE is provided as an erroneous response.

NEW QUESTION 202

- (Exam Topic 4)

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

Answer: D

Explanation:

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

NEW QUESTION 207

- (Exam Topic 4)

Which component of ITIL pertains to planning, coordinating, executing, and validating changes and rollouts to production environments?

- A. Release management
- B. Availability management
- C. Problem management
- D. Change management

Answer: A

Explanation:

Release management involves planning, coordinating, executing, and validating changes and rollouts to the production environment. Change management is a higher-level component than release management and also involves stakeholder and management approval, rather than specifically focusing the actual release itself. Availability management is focused on making sure system resources, processes, personnel, and toolsets are properly allocated and secured to meet SLA requirements. Problem management is focused on identifying and mitigating known problems and deficiencies before they occur.

NEW QUESTION 208

- (Exam Topic 4)

In the cloud motif, the data processor is usually:

- A. The cloud customer
- B. The cloud provider
- C. The cloud access security broker
- D. The party that assigns access rights

Answer: B

Explanation:

In legal terms, when "data processor" is defined, it refers to anyone who stores, handles, moves, or manipulates data on behalf of the data owner or controller. In the cloud computing realm, this is the cloud provider.

NEW QUESTION 212

- (Exam Topic 4)

Countermeasures for protecting cloud operations against internal threats include all of the following except:

- A. Mandatory vacation
- B. Least privilege
- C. Separation of duties
- D. Conflict of interest

Answer: D

Explanation:

Conflict of interest is a threat, not a control.

NEW QUESTION 217

- (Exam Topic 4)

SOC Type 1 reports are considered "restricted use," in that they are intended only for limited audiences and purposes.

Which of the following is NOT a population that would be appropriate for a SOC Type 1 report?

- A. Current clients
- B. Auditors
- C. Potential clients
- D. The service organization

Answer: C

Explanation:

Potential clients are not served by SOC Type 1 audits. A Type 2 or Type 3 report would be appropriate for potential clients. SOC Type 1 reports are intended for restricted use, where only the service organization itself, current clients, or auditors would have access to them.

NEW QUESTION 222

- (Exam Topic 4)

Which component of ITIL involves the creation of an RFC ticket and obtaining official approvals for it?

- A. Problem management
- B. Release management
- C. Deployment management
- D. Change management

Answer: D

Explanation:

The change management process involves the creation of the official Request for Change (RFC) ticket, which is used to document the change, obtain the required approvals from management and stakeholders, and track the change to completion. Release management is a subcomponent of change management, where the actual code or configuration change is put into place. Deployment management is similar to release management, but it's where changes are actually implemented on systems. Problem management is focused on the identification and mitigation of known problems and deficiencies before they are able to occur.

NEW QUESTION 225

- (Exam Topic 4)

Which aspect of cloud computing serves as the biggest challenge to using DLP to protect data at rest?

- A. Portability
- B. Resource pooling
- C. Interoperability
- D. Reversibility

Answer: B

Explanation:

Resource pooling serves as the biggest challenge to using DLP solutions to protect data at rest because data is spread across large systems, which are also shared by many different clients. With the data always moving and being distributed, additional challenges for protection are created versus a physical and isolated storage system. Portability is the ability to easily move between different cloud providers, and interoperability is focused on the ability to reuse components or services. Reversibility pertains to the ability of a cloud customer to easily and completely remove their data and services from a cloud provider.

NEW QUESTION 229

- (Exam Topic 4)

Every security program and process should have which of the following?

- A. Severe penalties
- B. Multifactor authentication
- C. Foundational policy
- D. Homomorphic encryption

Answer: C

Explanation:

Policy drives all programs and functions in the organization; the organization should not conduct any operations that don't have a policy governing them. Penalties may or may not be an element of policy, and severity depends on the topic. Multifactor authentication and homomorphic encryption are red herrings here.

NEW QUESTION 234

- (Exam Topic 4)

A comprehensive BCDR plan will encapsulate many or most of the traditional concerns of operating a system in any data center. However, what is one consideration that is often overlooked with the formulation of a BCDR plan?

- A. Availability of staff
- B. Capacity at the BCDR site
- C. Restoration of services
- D. Change management processes

Answer: C

Explanation:

BCDR planning tends to focus so much on the failing over of services in the case of a disaster that recovery back to primary hosting after the disaster is often overlooked. In many instances, this can be just as complex a process as failing over, if not more so. Availability of staff, capacity at the BCDR site, and change management processes are typically integral to BCDR plans and are common components of them.

NEW QUESTION 237

- (Exam Topic 4)

A UPS should have enough power to last how long?

- A. One day

- B. 12 hours
- C. Long enough for graceful shutdown
- D. 10 minutes

Answer: C

NEW QUESTION 240

- (Exam Topic 4)

When beginning an audit, both the system owner and the auditors must agree on various aspects of the final audit report. Which of the following would NOT be something that is predefined as part of the audit agreement?

- A. Size
- B. Format
- C. Structure
- D. Audience

Answer: A

Explanation:

The ultimate size of the audit report is not something that would ever be included in the audit scope or definition. Decisions about the content of the report should be the only factor that drives the ultimate size of the report. The structure, audience, and format of the audit report are all crucial elements that must be defined and agreed upon as part of the audit scope.

NEW QUESTION 244

- (Exam Topic 4)

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

- A. To use the provider's applications running on a cloud infrastructure
- B. The applications are accessible from various client devices through either a thin client interface, such as a web browser (for example, web-based email), or a program interface
- C. The consumer does manage or control the underlying cloud infrastructure, including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings.
- D. To use the consumer's applications running on a cloud infrastructure
- E. The applications are accessible from various client devices through either a thin client interface, such as a web browser (for example, web-based email), or a program interface
- F. The consumer does not manage or control the underlying cloud infrastructure, including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings.
- G. To use the consumer's applications running on a cloud infrastructure
- H. The applications are accessible from various client devices through either a thin client interface, such as a web browser (for example, web-based email), or a program interface
- I. The consumer does manage or control the underlying cloud infrastructure, including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings.
- J. To use the provider's applications running on a cloud infrastructure
- K. The applications are accessible from various client devices through either a thin client interface, such as a web browser (for example, web-based email), or a program interface
- L. The consumer does not manage or control the underlying cloud infrastructure, including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings.

Answer: D

Explanation:

According to "The NIST Definition of Cloud Computing," in SaaS, "The capability provided to the consumer is to use the provider's applications running on a cloud infrastructure. The applications are accessible from various client devices through either a thin client interface, such as a web browser (e.g., web-based email), or a program interface. The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings."

NEW QUESTION 246

- (Exam Topic 3)

The REST API is a widely used standard for communications of web-based services between clients and the servers hosting them. Which protocol does the REST API depend on?

- A. HTTP
- B. SSH
- C. SAML
- D. XML

Answer: A

Explanation:

Representational State Transfer (REST) is a software architectural scheme that applies the components, connectors, and data conduits for many web applications used on the Internet. It uses and relies on the HTTP protocol and supports a variety of data formats. Extensible Markup Language (XML) and Security Assertion Markup Language (SAML) are both standards for exchanging encoded data between two parties, with XML being for more general use and SAML focused on authentication and authorization data. Secure Shell client (SSH) is a secure method for allowing remote login to systems over a network.

NEW QUESTION 248

- (Exam Topic 3)

Where is a DLP solution generally installed when utilized for monitoring data in transit?

- A. Network perimeter

- B. Database server
- C. Application server
- D. Web server

Answer: A

Explanation:

To monitor data in transit, a DLP solution would optimally be installed at the network perimeter, to ensure that data leaving the network through various protocols conforms to security controls and policies. An application server or a web server would be more appropriate for monitoring data in use, and a database server would be an example of a location appropriate for monitoring data at rest.

NEW QUESTION 251

- (Exam Topic 3)

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

Answer: A

Explanation:

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

NEW QUESTION 256

- (Exam Topic 3)

Data centers have enormous power resources that are distributed and consumed throughout the entire facility. Which of the following standards pertains to the proper fire safety standards within that scope?

- A. IDCA
- B. BICSI
- C. NFPA
- D. Uptime Institute

Answer: C

Explanation:

The National Fire Protection Association (NFPA) publishes a broad range of fire safety and design standards for many different types of facilities. Building Industry Consulting Services International (BICSI) issues certifications for data center cabling. The Uptime Institute publishes the most widely known and used standard for data center topologies and tiers. The International Data Center Authority (IDCA) offers the Infinity Paradigm, which takes a macro-level approach to data center design.

NEW QUESTION 257

- (Exam Topic 3)

Which of the following systems is used to employ a variety of different techniques to discover and alert on threats and potential threats to systems and networks?

- A. IDS
- B. IPS
- C. Firewall
- D. WAF

Answer: A

Explanation:

An intrusion detection system (IDS) is implemented to watch network traffic and operations, using predefined criteria or signatures, and alert administrators if anything suspect is found. An intrusion prevention system (IPS) is similar to an IDS but actually takes action against suspect traffic, whereas an IDS just alerts when it finds anything suspect. A firewall works at the network level and only takes into account IP addresses, ports, and protocols; it does not inspect the traffic for patterns or content. A web application firewall (WAF) works at the application layer and provides additional security via proxying, filtering service requests, or blocking based on additional factors such as the client and requests.

NEW QUESTION 260

- (Exam Topic 3)

Which of the following threat types can occur when baselines are not appropriately applied or when unauthorized changes are made?

- A. Security misconfiguration
- B. Insecure direct object references
- C. Unvalidated redirects and forwards
- D. Sensitive data exposure

Answer: A

Explanation:

Security misconfigurations occur when applications and systems are not properly configured or maintained in a secure manner. This can be due to a shortcoming in security baselines or configurations, unauthorized changes to system configurations, or a failure to patch and upgrade systems as the vendor releases security patches. Insecure direct object references occur when code references aspects of the infrastructure, especially internal or private systems, and an attacker can use that knowledge to glean more information about the infrastructure. Unvalidated redirects and forwards occur when an application has functions to forward

users to other sites, and these functions are not properly secured to validate the data and redirect requests, allowing spoofing for malware or phishing attacks. Sensitive data exposure occurs when an application does not use sufficient encryption and other security controls to protect sensitive application data.

NEW QUESTION 263

- (Exam Topic 3)

If a cloud computing customer wishes to guarantee that a minimum level of resources will always be available, which of the following set of services would compromise the reservation?

- A. Memory and networking
- B. CPU and software
- C. CPU and storage
- D. CPU and memory

Answer: D

Explanation:

A reservation guarantees to a cloud customer that they will have access to a minimal level of resources to run their systems, which will help mitigate against DoS attacks or systems that consume high levels of resources.

A reservation pertains to memory and CPU resources. Under the concept of a reservation, memory and CPU are the guaranteed resources, but storage and networking are not included even though they are core components of cloud computing. Software would be out of scope for a guarantee and doesn't really pertain to the concept.

NEW QUESTION 268

- (Exam Topic 3)

The president of your company has tasked you with implementing cloud services as the most efficient way of obtaining a robust disaster recovery configuration for your production services.

Which of the cloud deployment models would you MOST likely be exploring?

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

Answer: A

Explanation:

A hybrid cloud model spans two more different hosting configurations or cloud providers. This would enable an organization to continue using its current hosting configuration, while adding additional cloud services to enable disaster recovery capabilities. The other cloud deployment models--public, private, and community--would not be applicable for seeking a disaster recovery configuration where cloud services are to be leveraged for that purpose rather than production service hosting.

NEW QUESTION 272

- (Exam Topic 3)

Which cloud service category would be most ideal for a cloud customer that is developing software to test its applications among multiple hosting providers to determine the best option for its needs?

- A. DaaS
- B. PaaS
- C. IaaS
- D. SaaS

Answer: B

Explanation:

Platform as a Service would allow software developers to quickly and easily deploy their applications among different hosting providers for testing and validation in order to determine the best option. Although IaaS would also be appropriate for hosting applications, it would require too much configuration of application servers and libraries in order to test code. Conversely, PaaS would provide a ready-to-use environment from the onset. DaaS would not be appropriate in any way for software developers to use to deploy applications. IaaS would not be appropriate in this scenario because it would require the developers to also deploy and maintain the operating system images or to contract with another firm to do so. SaaS, being a fully functional software platform, would not be appropriate for deploying applications into.

NEW QUESTION 276

- (Exam Topic 3)

With a cloud service category where the cloud customer is provided a full application framework into which to deploy their code and services, which storage types are MOST likely to be available to them?

- A. Structured and unstructured
- B. Structured and hierarchical
- C. Volume and database
- D. Volume and object

Answer: A

Explanation:

The question is describing the Platform as a Service (PaaS) cloud offering, and as such, structured and unstructured storage types will be available to the customer. Volume and object are storage types associated with IaaS, and although the other answers present similar-sounding storage types, they are a mix of real and fake names.

NEW QUESTION 278

- (Exam Topic 3)

Which cloud deployment model is MOST likely to offer free or very cheap services to users?

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

Answer: C

Explanation:

Public clouds offer services to anyone, regardless of affiliation, and are the most likely to offer free services to users. Examples of public clouds with free services include iCloud, Dropbox, and OneDrive. Private cloud models are designed for specific customers and for their needs, and would not offer services to the public at large, for free or otherwise. A community cloud is specific to a group of similar organizations and would not offer free or widely available public services. A hybrid cloud model would not fit the specifics of the question.

NEW QUESTION 279

- (Exam Topic 3)

Where is an XML firewall most commonly and effectively deployed in the environment?

- A. Between the application and data layers
- B. Between the presentation and application layers
- C. Between the IPS and firewall
- D. Between the firewall and application server

Answer: D

Explanation:

An XML firewall is most commonly deployed in line between the firewall and application server to validate XML code before it reaches the application. An XML firewall is intended to validate XML before it reaches the application. Placing the XML firewall between the presentation and application layers, between the firewall and IPS, or between the application and data layers would not serve the intended purpose.

NEW QUESTION 282

- (Exam Topic 3)

During which phase of the cloud data lifecycle is it possible for the classification of data to change?

- A. Use
- B. Archive
- C. Create
- D. Share

Answer: C

Explanation:

The create phase encompasses any time data is created, imported, or modified. With any change in the content or value of data, the classification may also change. It must be continually reevaluated to ensure proper security. During the use, share, and archive phases, the data is not modified in any way, so the original classification is still relevant.

NEW QUESTION 287

- (Exam Topic 3)

For service provisioning and support, what is the ideal amount of interaction between a cloud customer and cloud provider?

- A. Half
- B. Full
- C. Minimal
- D. Depends on the contract

Answer: C

Explanation:

The goal with any cloud-hosting setup is for the cloud customer to be able to perform most or all its functions for service provisioning and configuration without any need for support from or interaction with the cloud provider beyond the automated tools provided. To fulfill the tenants of on-demand self-service, required interaction with the cloud provider--either half time, full time, or a commensurate amount of time based on the contract--would be in opposition to a cloud's intended use. As such, these answers are incorrect.

NEW QUESTION 292

- (Exam Topic 3)

Although host-based and network-based IDSs perform similar functions and have similar capabilities, which of the following is an advantage of a network-based IDS over a host-based IDS, assuming all capabilities are equal?

- A. Segregated from host systems
- B. Network access
- C. Scalability
- D. External to system patching

Answer: A

Explanation:

A network-based IDS has the advantage of being segregated from host systems, and as such, it would not be open to compromise in the same manner a host-based system would be. Although a network-based IDS would be external to system patching, this is not the best answer here because it is a minor concern compared to segregation due to possible host compromise. Scalability is also not the best answer because, although a network-based IDS does remove processing from the host system, it is not a primary security concern. Network access is not a consideration because both a host-based IDS and a network-based IDS would have access to network resources.

NEW QUESTION 297

- (Exam Topic 3)

Which cloud storage type is typically used to house virtual machine images that are used throughout the environment?

- A. Structured
- B. Unstructured
- C. Volume
- D. Object

Answer: D

Explanation:

Object storage is typically used to house virtual machine images because it is independent from other systems and is focused solely on storage. It is also the most appropriate for handling large individual files. Volume storage, because it is allocated to a specific host, would not be appropriate for the storing of virtual images. Structured and unstructured are storage types specific to PaaS and would not be used for storing items used throughout a cloud environment.

NEW QUESTION 299

- (Exam Topic 3)

Within a federated identity system, which of the following would you be MOST likely to use for sending information for consumption by a relying party?

- A. XML
- B. HTML
- C. WS-Federation
- D. SAML

Answer: D

Explanation:

The Security Assertion Markup Language (SAML) is the most widely used method for encoding and sending attributes and other information from an identity provider to a relying party. WS-Federation, which is used by Active Directory Federation Services (ADFS), is the second most used method for sending information to a relying party, but it is not a better choice than SAML. XML is similar to SAML in the way it encodes and labels data, but it does not have all of the required extensions that SAML does. HTML is not used within federated systems at all.

NEW QUESTION 301

- (Exam Topic 3)

Your boss has tasked your team with getting your legacy systems and applications connected with new cloud-based services that management has decided are crucial to customer service and offerings.

Which role would you be assuming under this directive?

- A. Cloud service administrator
- B. Cloud service user
- C. Cloud service integrator
- D. Cloud service business manager

Answer: C

Explanation:

The cloud service integrator role is responsible for connecting and integrating existing services and applications with cloud-based services. A cloud service administrator is responsible for testing, monitoring, and securing cloud services, as well as providing usage reporting and dealing with service problems. The cloud service user is someone who consumes cloud services. The cloud service business manager is responsible for overseeing the billing, auditing, and purchasing of cloud services.

NEW QUESTION 303

- (Exam Topic 3)

With software-defined networking (SDN), which two types of network operations are segregated to allow for granularity and delegation of administrative access and functions?

- A. Filtering and forwarding
- B. Filtering and firewalling
- C. Firewalling and forwarding
- D. Forwarding and protocol

Answer: A

Explanation:

With SDN, the filtering and forwarding capabilities and administration are separated. This allows the cloud provider to build interfaces and management tools for administrative delegation of filtering configuration, without having to allow direct access to underlying network equipment. Firewalling and protocols are both terms related to networks, but they are not components SDN is concerned with.

NEW QUESTION 305

- (Exam Topic 3)
Within a federated identity system, which entity accepts tokens from the identity provider?

- A. Assertion manager
- B. Servicing party
- C. Proxy party
- D. Relying party

Answer: D

Explanation:

The relying party is attached to the application or service that a user is trying to access, and it accepts authentication tokens from the user's own identity provider in order to facilitate authentication and access. The other terms provided are all associated with federated systems, but none is the correct choice in this case.

NEW QUESTION 309

- (Exam Topic 3)
DNSSEC was designed to add a layer of security to the DNS protocol. Which type of attack was the DNSSEC extension designed to mitigate?

- A. Account hijacking
- B. Snooping
- C. Spoofing
- D. Data exposure

Answer: C

Explanation:

DNSSEC is an extension to the regular DNS protocol that utilizes digital signing of DNS query results, which can be verified to come from an authoritative source. This verification mitigates the ability for a rogue DNS server to be used to spoof query results and to direct users to malicious sites. DNSSEC provides for the verification of the integrity of DNS queries. It does not provide any protection from snooping or data exposure. Although it may help lessen account hijacking by preventing users from being directed to rogue sites, it cannot by itself eliminate the possibility.

NEW QUESTION 312

- (Exam Topic 3)
Which of the following roles would be responsible for managing memberships in federations and the use and integration of federated services?

- A. Inter-cloud provider
- B. Cloud service business manager
- C. Cloud service administrator
- D. Cloud service integrator

Answer: A

Explanation:

The inter-cloud provider is responsible for peering with other cloud services and providers, as well as overseeing and managing federations and federated services. A cloud service administrator is responsible for testing, monitoring, and securing cloud services, as well as providing usage reporting and dealing with service problems. The cloud service integrator is responsible for connecting existing systems and services with a cloud. The cloud service business manager is responsible for overseeing the billing, auditing, and purchasing of cloud services.

NEW QUESTION 315

- (Exam Topic 3)
Many of the traditional concepts of systems and services for a traditional data center also apply to the cloud. Both are built around key computing concepts. Which of the following compromise the two facets of computing?

- A. CPU and software
- B. CPU and storage
- C. CPU and memory
- D. Memory and networking

Answer: C

Explanation:

The CPU and memory resources of an environment together comprise its "computing" resources. Cloud environments, especially public clouds, are enormous pools of resources for computing and are typically divided among a large number of customers with constantly changing needs and demands. Although storage and networking are core components of a cloud environment, they do not comprise its computing core. Software, much like within a traditional data center, is highly subjective based on the application, system, service, or cloud computing model used; however, it is not one of the core cloud components.

NEW QUESTION 316

- (Exam Topic 3)
Which of the following statements best describes a Type 1 hypervisor?

- A. The hypervisor software runs within an operating system tied to the hardware.
- B. The hypervisor software runs as a client on a server and needs an external service to administer it.
- C. The hypervisor software runs on top of an application layer.
- D. The hypervisor software runs directly on "bare metal" without an intermediary.

Answer: D

Explanation:

With a Type 1 hypervisor, the hypervisor software runs directly on top of the bare-metal system, without any intermediary layer or hosting system. None of these statements describes a Type 1 hypervisor.

NEW QUESTION 317

- (Exam Topic 3)

In the wake of many scandals with major corporations involving fraud and the deception of investors and regulators, which of the following laws was passed to govern accounting and financial records and disclosures?

- A. GLBA
- B. Safe Harbor
- C. HIPAA
- D. SOX

Answer: D

Explanation:

The Sarbanes-Oxley Act (SOX) regulates the financial and accounting practices used by organizations in order to protect shareholders from improper practices and accounting errors. The Health Insurance Portability and Accountability Act (HIPAA) pertains to the protection of patient medical records and privacy. The Gramm-Leach-Bliley Act (GLBA) focuses on the use of PII within financial institutions. The Safe Harbor program was designed by the US government as a way for American companies to comply with European Union privacy laws.

NEW QUESTION 320

- (Exam Topic 3)

Most APIs will support a variety of different data formats or structures. However, the SOAP API will only support which one of the following data formats?

- A. XML
- B. XSLT
- C. JSON
- D. SAML

Answer: A

Explanation:

The Simple Object Access Protocol (SOAP) protocol only supports the Extensible Markup Language (XML) data format. Although the other options are all data formats or data structures, they are not supported by SOAP.

NEW QUESTION 323

- (Exam Topic 3)

Within an IaaS implementation, which of the following would NOT be a metric used to quantify service charges for the cloud customer?

- A. Memory
- B. Number of users
- C. Storage
- D. CPU

Answer: B

Explanation:

Within IaaS, where the cloud customer is responsible for everything beyond the physical network, the number of users on a system would not be a factor in billing or service charges. The core cloud services for IaaS are based on the memory, storage, and CPU requirements of the cloud customer. Because the cloud customer with IaaS is responsible for its own images and deployments, these components comprise the basis of its cloud provisioning and measured services billing.

NEW QUESTION 325

- (Exam Topic 3)

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

Answer: D

Explanation:

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.

NEW QUESTION 329

4 to 80.6 degrees Fahrenheit (or 18 to 27 degrees Celsius) as the optimal temperature range for data centers. None of these options is the recommendation from ASHRAE.

- A. Mastered
- B. Not Mastered

Answer:

A

NEW QUESTION 331

- (Exam Topic 3)

From a security perspective, what component of a cloud computing infrastructure represents the biggest concern?

- A. Hypervisor
- B. Management plane
- C. Object storage
- D. Encryption

Answer: B

Explanation:

The management plane will have broad administrative access to all host systems throughout an environment; as such, it represents the most pressing security concerns. A compromise of the management plane can directly lead to compromises of any other systems within the environment. Although hypervisors represent a significant security concern to an environment because their compromise would expose any virtual systems hosted within them, the management plane is a better choice in this case because it controls multiple hypervisors. Encryption and object storage both represent lower-level security concerns.

NEW QUESTION 333

- (Exam Topic 3)

Along with humidity, temperature is crucial to a data center for optimal operations and protection of equipment.

Which of the following is the optimal temperature range as set by ASHRAE?

- A. 69.8 to 86.0 degrees Fahrenheit (21 to 30 degrees Celsius)
- B. 51.8 to 66.2 degrees Fahrenheit (11 to 19 degrees Celsius)
- C. 64.4 to 80.6 degrees Fahrenheit (18 to 27 degrees Celsius)
- D. 44.6 to 60.8 degrees Fahrenheit (7 to 16 degrees Celsius)

Answer: C

Explanation:

The American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) recommends

NEW QUESTION 334

- (Exam Topic 3)

There is a large gap between the privacy laws of the United States and those of the European Union. Bridging this gap is necessary for American companies to do business with European companies and in European markets in many situations, as the American companies are required to comply with the stricter requirements. Which US program was designed to help companies overcome these differences?

- A. SOX
- B. HIPAA
- C. GLBA
- D. Safe Harbor

Answer: D

Explanation:

The Safe Harbor regulations were developed by the Department of Commerce and are meant to serve as a way to bridge the gap between privacy regulations of the European Union and the United States. Due to the lack of adequate privacy laws and protection on the federal level in the US, European privacy regulations generally prohibit the exporting of PII from Europe to the United States. Participation in the Safe Harbor program is voluntary on the part of US organizations. These organizations must conform to specific requirements and policies that mirror those from the EU, thus possibly fulfilling the EU requirements for data sharing and export. This way, American businesses can be allowed to serve customers in the EU. The Health Insurance Portability and Accountability Act (HIPAA) pertains to the protection of patient medical records and privacy. The Gramm-Leach-Bliley Act (GLBA) focuses on the use of PII within financial institutions. The Sarbanes-Oxley Act (SOX) regulates the financial and accounting practices used by organizations in order to protect shareholders from improper practices and errors.

NEW QUESTION 337

- (Exam Topic 3)

Which of the following threat types involves the sending of commands or arbitrary data through input fields in an application in an attempt to get that code executed as part of normal processing?

- A. Cross-site scripting
- B. Missing function-level access control
- C. Injection
- D. Cross-site forgery

Answer: C

Explanation:

An injection attack is where a malicious actor will send commands or other arbitrary data through input and data fields with the intent of having the application or system execute the code as part of its normal processing and queries. This can trick an application into exposing data that is not intended or authorized to be exposed, or it could potentially allow an attacker to gain insight into configurations or security controls. Missing function-level access control exists where an application only checks for authorization during the initial login process and does not further validate with each function call. Cross-site request forgery occurs when an attack forces an authenticated user to send forged requests to an application running under their own access and credentials. Cross-site scripting occurs when an attacker is able to send untrusted data to a user's browser without going through validation processes.

NEW QUESTION 339

- (Exam Topic 3)

The share phase of the cloud data lifecycle involves allowing data to leave the application, to be shared with external systems, services, or even other vendors/contractors.

What technology would be useful for protecting data at this point?

- A. IDS
- B. DLP
- C. IPS
- D. WAF

Answer: B

Explanation:

Data loss prevention (DLP) solutions allow for control of data outside of the application or original system. They can enforce granular control such as printing, copying, and being read by others, as well as forcing expiration of access. Intrusion detection system (IDS) and intrusion prevention system (IPS) solutions are used for detecting and blocking suspicious and malicious traffic, respectively, whereas a web application firewall (WAF) is used for enforcing security or other controls on web-based applications.

NEW QUESTION 344

- (Exam Topic 3)

Firewalls are used to provide network security throughout an enterprise and to control what information can be accessed--and to a certain extent, through what means.

Which of the following is NOT something that firewalls are concerned with?

- A. IP address
- B. Encryption
- C. Port
- D. Protocol

Answer: B

Explanation:

Firewalls work at the network level and control traffic based on the source, destination, protocol, and ports. Whether or not the traffic is encrypted is not a factor with firewalls and their decisions about routing traffic. Firewalls work primarily with IP addresses, ports, and protocols.

NEW QUESTION 347

- (Exam Topic 3)

Which one of the following threat types to applications and services involves the sending of requests that are invalid and manipulated through a user's client to execute commands on the application under the user's own credentials?

- A. Injection
- B. Missing function-level access control
- C. Cross-site scripting
- D. Cross-site request forgery

Answer: D

Explanation:

A cross-site request forgery (CSRF) attack forces a client that a user has used to authenticate to an application to send forged requests under the user's own credentials to execute commands and requests that the application thinks are coming from a trusted client and user. Although this type of attack cannot be used to steal data directly because the attacker has no way of seeing the results of the commands, it does open other ways to compromise an application. Missing function-level access control exists where an application only checks for authorization during the initial login process and does not further validate with each function call. Cross-site scripting occurs when an attacker is able to send untrusted data to a user's browser without going through validation processes. An injection attack is where a malicious actor sends commands or other arbitrary data through input and data fields with the intent of having the application or system execute the code as part of its normal processing and queries.

NEW QUESTION 349

- (Exam Topic 3)

What type of storage structure does object storage employ to maintain files?

- A. Directory
- B. Hierarchical
- C. tree
- D. Flat

Answer: D

Explanation:

Object storage uses a flat file system to hold storage objects; it assigns files a key value that is then used to access them, rather than relying on directories or descriptive filenames. Typical storage layouts such as tree, directory, and hierarchical structures are used within volume storage, whereas object storage maintains a flat structure with key values.

NEW QUESTION 352

- (Exam Topic 3)

Where is a DLP solution generally installed when utilized for monitoring data in use?

- A. Application server
- B. Database server
- C. Network perimeter
- D. User's client

Answer: D

Explanation:

To monitor data in use, the DLP solution's optimal location would be on the user's client or workstation, where the data would be used or processed, and where it would be most vulnerable to access or exposure. The network perimeter is most appropriate for data in transit, and an application server would serve as middle stage between data at rest and data in use, but is a less correct answer than a user's client. A database server would be an example of a location appropriate for monitoring data at rest.

NEW QUESTION 354

- (Exam Topic 3)

Which of the following threat types involves the sending of invalid and manipulated requests through a user's client to execute commands on the application under their own credentials?

- A. Injection
- B. Cross-site request forgery
- C. Missing function-level access control
- D. Cross-site scripting

Answer: B

Explanation:

A cross-site request forgery (CSRF) attack forces a client that a user has used to authenticate to an application to send forged requests under the user's own credentials to execute commands and requests that the application thinks are coming from a trusted client and user. Although this type of attack cannot be used to steal data directly because the attacker has no way to see the results of the commands, it does open other ways to compromise an application. Missing function-level access control exists where an application only checks for authorization during the initial login process and does not further validate with each function call. An injection attack is where a malicious actor sends commands or other arbitrary data through input and data fields with the intent of having the application or system execute the code as part of its normal processing and queries.

Cross-site scripting occurs when an attacker is able to send untrusted data to a user's browser without going through validation processes.

NEW QUESTION 355

- (Exam Topic 3)

With a cloud service category where the cloud customer is responsible for deploying all services, systems, and components needed for their applications, which of the following storage types are MOST likely to be available to them?

- A. Structured and hierarchical
- B. Volume and object
- C. Volume and database
- D. Structured and unstructured

Answer: B

Explanation:

The question is describing the Infrastructure as a Service (IaaS) cloud offering, and as such, the volume and object storage types will be available to the customer. Structured and unstructured are storage types associated with PaaS, and although the other answers present similar-sounding storage types, they are a mix of real and fake names.

NEW QUESTION 357

- (Exam Topic 3)

When an API is being leveraged, it will encapsulate its data for transmission back to the requesting party or service. What is the data encapsulation used with the SOAP protocol referred to as?

- A. Packet
- B. Payload
- C. Object
- D. Envelope

Answer: D

Explanation:

Simple Object Access Protocol (SOAP) encapsulates its information in what is known as a SOAP envelope. It then leverages common communications protocols for transmission. Object is a type of cloud storage, but also a commonly used term with certain types of programming languages. Packet and payload are terms that sound similar to envelope but are not correct in this case.

NEW QUESTION 362

- (Exam Topic 3)

ISO/IEC has established international standards for many aspects of computing and any processes or procedures related to information technology. Which ISO/IEC standard has been established to provide a framework for handling eDiscovery processes?

- A. ISO/IEC 27001
- B. ISO/IEC 27002
- C. ISO/IEC 27040
- D. ISO/IEC 27050

Answer: D

Explanation:

ISO/IEC 27050 strives to establish an internationally accepted standard for eDiscovery processes and best practices. It encompasses all steps of the eDiscovery process, including the identification, preservation, collection, processing, review, analysis, and the final production of the requested data archive. ISO/IEC 27001 is

a general security specification for an information security management system. ISO/IEC 27002 gives best practice recommendations for information security management. ISO/IEC 27040 is focused on the security of storage systems.

NEW QUESTION 363

- (Exam Topic 3)

Different types of audits are intended for different audiences, such as internal, external, regulatory, and so on. Which of the following audits are considered "restricted use" versus being for a more broad audience?

- A. SOC Type 2
- B. SOC Type 1
- C. SOC Type 3
- D. SAS-70

Answer: B

Explanation:

SOC Type 1 reports are intended for restricted use, only to be seen by the actual service organization, its current clients, or its auditors. These reports are not intended for wider or public distribution. SAS-70 audit reports have been deprecated and are no longer in use, and both the SOC Type 2 and 3 reports are designed to expand upon the SOC Type 1 reports and are for broader audiences.

NEW QUESTION 366

- (Exam Topic 3)

Implementing baselines on systems would take an enormous amount of time and resources if the staff had to apply them to each server, and over time, it would be almost impossible to keep all the systems in sync on an ongoing basis.

Which of the following is NOT a package that can be used for implementing and maintaining baselines across an enterprise?

- A. Puppet
- B. SCCM
- C. Chef
- D. GitHub

Answer: D

Explanation:

GitHub is a software development platform that serves as a code repository and versioning system. It is solely used for software development and would not be appropriate for applying baselines to systems. Puppet is an open-source configuration management tool that runs on many platforms and can be used to apply and maintain baselines. The Software Center Configuration Manager (SCCM) was developed by Microsoft for managing systems across large groups of servers. Chef is also a system for maintaining large groups of systems throughout an enterprise.

NEW QUESTION 370

- (Exam Topic 3)

The management plane is used to administer a cloud environment and perform administrative tasks across a variety of systems, but most specifically it's used with the hypervisors.

What does the management plane typically leverage for this orchestration?

- A. APIs
- B. Scripts
- C. TLS
- D. XML

Answer: A

Explanation:

The management plane uses APIs to execute remote calls across the cloud environment to various management systems, especially hypervisors. This allows a centralized administrative interface, often a web portal, to orchestrate tasks throughout an enterprise. Scripts may be utilized to execute API calls, but they are not used directly to interact with systems. XML is used for data encoding and transmission, but not for executing remote calls. TLS is used to encrypt communications and may be used with API calls, but it is not the actual process for executing commands.

NEW QUESTION 373

- (Exam Topic 3)

Which aspect of SaaS will alleviate much of the time and energy organizations spend on compliance (specifically baselines)?

- A. Maintenance
- B. Licensing
- C. Standardization
- D. Development

Answer: C

Explanation:

With the entire software platform being controlled by the cloud provider, the standardization of configurations and versioning is done automatically for the cloud customer. This alleviates the customer's need to track upgrades and releases for its own systems and development; instead, the onus is on the cloud provider. Although licensing is the responsibility of the cloud customer within SaaS, it does not have an impact on compliance requirements. Within SaaS, development and maintenance of the system are solely the responsibility of the cloud provider.

NEW QUESTION 376

- (Exam Topic 3)

With a federated identity system, where would a user perform their authentication when requesting services or application access?

- A. Cloud provider
- B. The application
- C. Their home organization
- D. Third-party authentication system

Answer: C

Explanation:

With a federated identity system, a user will perform authentication with their home organization, and the application will accept the authentication tokens and user information from the identity provider in order to grant access. The purpose of a federated system is to allow users to authenticate from their home organization. Therefore, using the application or a third-party authentication system would be contrary to the purpose of a federated system because it necessitates the creation of additional accounts. The use of a cloud provider would not be relevant to the operations of a federated system.

NEW QUESTION 380

- (Exam Topic 3)

Which of the following aspects of cloud computing would make it more likely that a cloud provider would be unwilling to satisfy specific certification requirements?

- A. Regulation
- B. Multitenancy
- C. Virtualization
- D. Resource pooling

Answer: B

Explanation:

With cloud providers hosting a number of different customers, it would be impractical for them to pursue additional certifications based on the needs of a specific customer. Cloud environments are built to a common denominator to serve the greatest number of customers. Especially within a public cloud model, it is not possible or practical for a cloud provider to alter its services for specific customer demands. Resource pooling and virtualization within a cloud environment would be the same for all customers, and would not impact certifications that a cloud provider might be willing to pursue. Regulations would form the basis for certification problems and would be a reason for a cloud provider to pursue specific certifications to meet customer requirements.

NEW QUESTION 381

- (Exam Topic 2)

Which OSI layer does IPsec operate at?

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

Answer: A

Explanation:

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.

NEW QUESTION 384

- (Exam Topic 2)

What concept does the "I" represent with the STRIDE threat model?

- A. Integrity
- B. Information disclosure
- C. IT security
- D. Insider threat

Answer: B

Explanation:

Perhaps the biggest concern for any user is having their personal and sensitive information disclosed by an application. There are many aspects of an application to consider with security and protecting this information, and it is very difficult for any application to fully ensure security from start to finish. The obvious focus is on security within the application itself, as well as protecting and storing the data.

NEW QUESTION 388

- (Exam Topic 2)

Which of the cloud cross-cutting aspects relates to the requirements placed on a system or application by law, policy, or requirements from standards?

- A. regulatory requirements
- B. Auditability
- C. Service-level agreements
- D. Governance

Answer: A

Explanation:

Regulatory requirements are those imposed upon businesses and their operations either by law, regulation, policy, or standards and guidelines. These requirements are specific either to the locality in which the company or application is based or to the specific nature of the data and transactions conducted.

NEW QUESTION 391

- (Exam Topic 2)

Which of the following is NOT a key area for performance monitoring as far as an SLA is concerned?

- A. CPU
- B. Users
- C. Memory
- D. Network

Answer: B

Explanation:

An SLA requires performance monitoring of CPU, memory, storage, and networking. The number of users active on a system would not be part of an SLA specifically, other than in regard to the impact on the other four variables.

NEW QUESTION 392

- (Exam Topic 2)

Which of the following does NOT fall under the "IT" aspect of quality of service (QoS)?

- A. Applications
- B. Key performance indicators (KPIs)
- C. Services
- D. Security

Answer: B

Explanation:

KPIs fall under the "business" aspect of QoS, along with monitoring and measuring of events and business processes. Services, security, and applications are all core components and concepts of the "IT" aspect of QoS.

NEW QUESTION 393

- (Exam Topic 2)

Which of the following is the sole responsibility of the cloud customer, regardless of which cloud model is used?

- A. Infrastructure
- B. Platform
- C. Application
- D. Data

Answer: D

Explanation:

Regardless of which cloud-hosting model is used, the cloud customer always has sole responsibility for the data and its security.

NEW QUESTION 394

- (Exam Topic 2)

Which process serves to prove the identity and credentials of a user requesting access to an application or data?

- A. Repudiation
- B. Authentication
- C. Identification
- D. Authorization

Answer: B

Explanation:

Authentication is the process of proving whether the identity presented by a user is true and valid. This can be done through common mechanisms such as user ID and password combinations or with more secure methods such as multifactor authentication.

NEW QUESTION 396

- (Exam Topic 2)

Which aspect of security is DNSSEC designed to ensure?

- A. Integrity
- B. Authentication
- C. Availability
- D. Confidentiality

Answer: A

Explanation:

DNSSEC is a security extension to the regular DNS protocol and services that allows for the validation of the integrity of DNS lookups. It does not address confidentiality or availability at all. It allows for a DNS client to perform DNS lookups and validate both their origin and authority via the cryptographic signature that accompanies the DNS response.

NEW QUESTION 399

- (Exam Topic 2)

Which security concept, if implemented correctly, will protect the data on a system, even if a malicious actor gains access to the actual system?

- A. Sandboxing
- B. Encryption
- C. Firewalls
- D. Access control

Answer: B

Explanation:

In any environment, data encryption is incredibly important to prevent unauthorized exposure of data either internally or externally. If a system is compromised by an attack, having the data encrypted on the system will prevent its unauthorized exposure or export, even with the system itself being exposed.

NEW QUESTION 403

- (Exam Topic 2)

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

Answer: D

Explanation:

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.

NEW QUESTION 406

- (Exam Topic 2)

Which approach is typically the most efficient method to use for data discovery?

- A. Metadata
- B. Content analysis
- C. Labels
- D. ACLs

Answer: A

Explanation:

Metadata is data about data. It contains information about the type of data, how it is stored and organized, or information about its creation and use.

NEW QUESTION 409

- (Exam Topic 2)

What concept does the "T" represent in the STRIDE threat model?

- A. TLS
- B. Testing
- C. Tampering with data
- D. Transport

Answer: C

Explanation:

Any application that sends data to the user will face the potential that the user could manipulate or alter the data, whether it resides in cookies, GET or POST commands, or headers, or manipulates client-side validations. If the user receives data from the application, it is crucial that the application validate and verify any data that is received back from the user.

NEW QUESTION 411

- (Exam Topic 2)

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

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

Answer: C

Explanation:

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

NEW QUESTION 412

- (Exam Topic 2)

Which of the following is the sole responsibility of the cloud customer, regardless of which cloud model is used?

- A. Platform
- B. Infrastructure
- C. Governance
- D. Application

Answer: C

Explanation:

Regardless of which cloud-hosting model is used, the cloud customer always has sole responsibility for the governance of systems and data.

NEW QUESTION 413

- (Exam Topic 2)

From a security perspective, which of the following is a major concern when evaluating possible BCDR solutions?

- A. Access provisioning
- B. Auditing
- C. Jurisdictions
- D. Authorization

Answer: C

Explanation:

When a security professional is considering cloud solutions for BCDR, a top concern is the jurisdiction where the cloud systems are hosted. If the jurisdiction is different from where the production systems are hosted, they may be subjected to different regulations and controls, which would make a seamless BCDR solution far more difficult.

NEW QUESTION 418

- (Exam Topic 2)

Which audit type has been largely replaced by newer approaches since 2011?

- A. SOC Type 1
- B. SSAE-16
- C. SAS-70
- D. SOC Type 2

Answer: C

Explanation:

SAS-70 reports were replaced in 2011 with the SSAE-16 reports throughout the industry.

NEW QUESTION 423

- (Exam Topic 2)

Which of the cloud cross-cutting aspects relates to the requirements placed on the cloud provider by the cloud customer for minimum performance standards and requirements that must be met?

- A. Regulatory requirements
- B. SLAs
- C. Auditability
- D. Governance

Answer: B

Explanation:

Whereas a contract spells out general terms and costs for services, the SLA is where the real meat of the business relationship and concrete requirements come into play. The SLA spells out in clear terms the minimum requirements for uptime, availability, processes, customer service and support, security controls and requirements, auditing and reporting, and potentially many other areas that define the business relationship and the success of it.

NEW QUESTION 426

- (Exam Topic 2)

With software-defined networking, what aspect of networking is abstracted from the forwarding of traffic?

- A. Routing
- B. Session
- C. Filtering
- D. Firewalling

Answer: C

Explanation:

With software-defined networking (SDN), the filtering of network traffic is separated from the forwarding of network traffic so that it can be independently administered.

NEW QUESTION 427

- (Exam Topic 2)

Which of the following is NOT part of a retention policy?

- A. Format

- B. Costs
- C. Accessibility
- D. Duration

Answer: B

Explanation:

The data retention policy covers the duration, format, technologies, protection, and accessibility of archives, but does not address the specific costs of its implementation and maintenance.

NEW QUESTION 431

- (Exam Topic 2)

Which of the following service categories entails the least amount of support needed on the part of the cloud customer?

- A. SaaS
- B. IaaS
- C. DaaS
- D. PaaS

Answer: A

Explanation:

With SaaS providing a fully functioning application that is managed and maintained by the cloud provider, cloud customers incur the least amount of support responsibilities themselves of any service category.

NEW QUESTION 433

- (Exam Topic 2)

Which of the following is NOT a factor that is part of a firewall configuration?

- A. Encryption
- B. Port
- C. Protocol
- D. Source IP

Answer: A

Explanation:

Firewalls take into account source IP, destination IP, the port the traffic is using, as well as the network protocol (UDP/TCP). Whether or not the traffic is encrypted is not something a firewall is concerned with.

NEW QUESTION 437

- (Exam Topic 2)

Which value refers to the percentage of production level restoration needed to meet BCDR objectives?

- A. RPO
- B. RTO
- C. RSL
- D. SRE

Answer: C

Explanation:

The recovery service level (RSL) is a percentage measure of the total typical production service level that needs to be restored to meet BCDR objectives in the case of a failure.

NEW QUESTION 440

- (Exam Topic 2)

Other than cost savings realized due to measured service, what is another facet of cloud computing that will typically save substantial costs in time and money for an organization in the event of a disaster?

- A. Broad network access
- B. Interoperability
- C. Resource pooling
- D. Portability

Answer: A

Explanation:

With a typical BCDR solution, an organization would need some number of staff to quickly travel to the location of the BCDR site to configure systems and applications for recovery. With a cloud environment, everything is done over broad network access, with no need (or even possibility) to travel to a remote site at any time.

NEW QUESTION 441

- (Exam Topic 2)

What is an often overlooked concept that is essential to protecting the confidentiality of data?

- A. Strong password

- B. Training
- C. Security controls
- D. Policies

Answer: B

Explanation:

While the main focus of confidentiality revolves around technological requirements or particular security methods, an important and often overlooked aspect of safeguarding data confidentiality is appropriate and comprehensive training for those with access to it. Training should be focused on the safe handling of sensitive information overall, including best practices for network activities as well as physical security of the devices or workstations used to access the application.

NEW QUESTION 445

- (Exam Topic 2)

What provides the information to an application to make decisions about the authorization level appropriate when granting access?

- A. User
- B. Relying party
- C. Federation
- D. Identity Provider

Answer: D

Explanation:

Upon successful user authentication, the identity provider gives information about the user to the relying party that it needs to make authorization decisions for granting access as well as the level of access needed.

NEW QUESTION 448

- (Exam Topic 2)

What type of masking strategy involves replacing data on a system while it passes between the data and application layers?

- A. Dynamic
- B. Static
- C. Replication
- D. Duplication

Answer: A

Explanation:

With dynamic masking, production environments are protected with the masking process being implemented between the application and data layers of the application. This allows for a masking translation to take place live in the system and during normal application processing of data.

NEW QUESTION 453

- (Exam Topic 2)

Which security concept is based on preventing unauthorized access to data while also ensuring that it is accessible to those authorized to use it?

- A. Integrity
- B. Availability
- C. Confidentiality
- D. Nonrepudiation

Answer: C

Explanation:

The main goal of confidentiality is to ensure that sensitive information is not made available or leaked to parties that should not have access to it, while at the same time ensuring that those with appropriate need and authorization to access it can do so in a manner commensurate with their needs and confidentiality requirements.

NEW QUESTION 455

- (Exam Topic 2)

Which of the following service capabilities gives the cloud customer the most control over resources and configurations?

- A. Desktop
- B. Platform
- C. Infrastructure
- D. Software

Answer: C

Explanation:

The infrastructure service capability gives the cloud customer substantial control in provisioning and configuring resources, including processing, storage, and network resources.

NEW QUESTION 458

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