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WGU: Managing Cloud Security Questions with Answers 2025

Infrastructure as a service (iaas) - correct answers- allows the customer to install all software, including operating systems (oss) on hardware housed and connected by the cloud vendor.

Platform as a service (paas) - correct answers- contains everything included in iaas, with the addition of oss. this model is especially useful for software development operations (devops).

Software as a service (saas) - correct answers- includes everything listed in the previous infrastructure as a service (iaas) and platform as a service (paas) models, with the addition of software programs.

Encryption - correct answers- offers a degree of assurance that nobody without authorization will be able to access your data in a meaningful way.

Cloud service provider (CSP) - correct answers- provides administrative assistance for the customer and the customer's data and processing needs. examples include amazon web services, rackspace, and microsoft's azure.

Virtualization - correct answers- a process of creating a virtual version of something, including virtual computer hardware platforms, operating systems, storage devices, and computer network resources.

Vendor lock-in - correct answers- occurs in a situation where a customer may be unable to leave, migrate, or transfer to an alternate provider due to technical or non-technical constraints.

Cloud provider - correct answers- a service provider that offers customer storage or software solutions available via a public network, usually the internet.

Cloud portability - correct answers- the ability to move applications and associated data between one cloud provider and another, or between legacy and cloud environments.

Cloud access security broker (CASB) - correct answers-a third-party entity offering independent identity and access management (IAM) services to csp and cloud customers, often as an intermediary.

We use what to determine the critical paths, processes, and assets of an organization? - correct answers-

BIA (the business impact analysis is designed to ascertain the value of the organization's assets, and learn the critical paths and processes.)

If a cloud customer wants a bare-bones environment in which to replicate their own enterprise for bc/dr purposes, which cloud service model would probably be best? - correct answers-iaas - iaas offers what is basically a hot/warm dr site, with hardware, connectivity, and utilities, allowing the customer to build out any kind of software configuration (including choosing oss).

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WGU Managing Cloud Security (JY02) Sample Questions (Q174-Q179):

NEW QUESTION # 174

An organization is considering using vendor-specific application programming interfaces (APIs) and internal tools to set up a new service. However, the engineers are against this plan and are advocating for a new policy to prevent issues that could arise. Which common concern in cloud applications are the engineers concerned about?

- A. Availability
- B. Scalability
- C. Reliability
- D. **Portability**

Answer: D

Explanation:

The engineers are concerned about portability. Vendor-specific APIs and tools create a dependency on a single provider, leading to vendor lock-in. This limits the ability to migrate services or workloads to another provider without significant rework.

Reliability and availability refer to service uptime and continuity, while scalability addresses performance under demand. Although important, none of these directly relate to cross-platform flexibility. Portability ensures that services, data, and applications can be easily moved or integrated across environments.

By adopting portable solutions-such as open standards, containerization, and multi-cloud strategies- organizations reduce long-term risks, increase negotiation power with providers, and enhance resilience.

NEW QUESTION # 175

Which release management term describes the process from code implementation to code review and approval to automated testing and then to production deployment?

- A. Framework
- B. **Pipeline**
- C. Baseline
- D. Iteration

Answer: B

Explanation:

A pipeline refers to the structured process of moving code from development to production, encompassing implementation, review, automated testing, and deployment. In DevOps, this is known as a CI/CD pipeline (Continuous Integration/Continuous Deployment).

An iteration refers to a development cycle, a baseline represents a stable reference configuration, and a framework provides structure but not a deployment sequence. Only pipeline accurately captures the sequential, automated flow of code into production. Pipelines enhance efficiency, consistency, and quality assurance by automating repetitive tasks, reducing human error, and ensuring that code changes are validated before reaching production. They are essential for modern cloud-native applications where rapid deployment is expected.

NEW QUESTION # 176

Which threat modeling process would a security analyst use to test a new application from a malicious actor's perspective?

- A. Damage, Reproducibility, Exploitability, Affected Users, and Discoverability (DREAD)
- **B. Process for Attack Simulation and Threat Analysis (PASTA)**
- C. Spoofing, Tampering, Repudiation, Information Disclosure, Denial of Service, and Elevation of Privileges (STRIDE)
- D. Architecture, Threats, Attack Surfaces, and Mitigation (ATASM)

Answer: B

Explanation:

The Process for Attack Simulation and Threat Analysis (PASTA) is a risk-centric threat modeling methodology that explicitly focuses on simulating real-world attacks from an adversary's perspective. Unlike STRIDE or DREAD, which classify threats and rate severity, PASTA evaluates how an attacker would exploit vulnerabilities step by step.

PASTA has seven stages, including defining objectives, decomposing applications, and simulating attacks.

This methodology helps organizations understand both technical and business risks by looking at the application as an attacker would.

STRIDE categorizes threats, DREAD provides scoring, and ATASM emphasizes architecture and mitigation.

While valuable, they are not primarily attack-simulation frameworks. PASTA enables proactive testing of defenses against realistic adversary behaviors, making it especially relevant in modern cloud and DevSecOps environments.

NEW QUESTION # 177

When should a cloud service provider delete customer data?

- A. After a scheduled data review
- **B. After the specified retention period**
- C. When the data has not been accessed in the last 30 days
- D. When the cloud provider oversubscribes its storage space

Answer: B

Explanation:

The correct time for data deletion is after the specified retention period defined by contractual agreements, regulatory frameworks, or internal policies. Retention policies ensure that data is kept for as long as necessary for business, legal, or compliance reasons but not longer than required.

Oversubscription, inactivity, or review cycles are not valid triggers because they may conflict with compliance mandates such as GDPR, HIPAA, or PCI DSS. Deleting data prematurely could result in legal penalties or business risks, while keeping it longer than necessary could increase exposure.

By deleting data only after the retention period, providers demonstrate adherence to data governance principles and protect customer rights while minimizing storage costs and liability.

NEW QUESTION # 178

Which design component contains both a remotely accessible application programming interface (API) and a web graphical user interface?

- A. Infrastructure
- B. Applistructure
- C. Metastructure
- **D. Management**

Answer: D

Explanation:

The Management component contains both a remotely accessible application programming interface (API) and a web-based graphical user interface. Managing Cloud documentation explains that the management layer is responsible for provisioning, monitoring, configuration, and administration of cloud resources.

This component enables administrators and automation tools to interact with cloud services programmatically through APIs, while also providing human-accessible web consoles for operational management. The dual-interface design supports scalability, automation, and ease of use.

Infrastructure provides raw compute, storage, and networking. Applistructure refers to deployed applications and services, while metastructure supports orchestration and abstraction. Therefore, the management component is the correct answer.

NEW QUESTION # 179

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