CLO-002^{Q&As}

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QUESTION 1

Which of the following are the main advantages of using ML/AI for data analytics in the cloud as opposed to on premises? (Choose two.)

A. Cloud providers offer enhanced technical support.

B. Elasticity allows access to a large pool of compute resources.

C. The shared responsibility model offers greater security.

D. AI enables DevOps to build applications easier and faster.

E. A pay-as-you-go approach allows the company to save money.

F. ML enables DevOps to build applications easier and faster.

Correct Answer: BE

Explanation: Elasticity and pay-as-you-go are two main advantages of using ML/AI for data analytics in the cloud as opposed to on premises. Elasticity refers to the ability of cloud computing to dynamically adjust the amount of resources allocated to a workload according to the changing demand7. This allows ML/AI applications to access a large pool of compute resources when needed, such as GPUs or TPUs, without having to purchase or maintain them on premises8. Pay-as-you-go is a pricing model in which customers pay only for the resources they consume, such as compute, storage, network, or software services9. This allows ML/AI applications to save money by avoiding upfront costs or overprovisioning of resources on premises10. References: What is Cloud Elasticity in Cloud Computing?, The Iron.io Blog Machine Learning in the Cloud: Complete Guide [2023], Run.AI Consumption and fixed cost models, Microsoft Azure Well-Architected Framework CompTIA Cloud Essentials CLO-002 Certification Study Guide, Chapter 2: Business Principles of Cloud Environments, page 51

QUESTION 2

An organization has experienced repeated occurrences of system configurations becoming incorrect over time. After implementing corrections on all system configurations across the enterprise, the Chief Information Security Officer (CISO) purchased an automated tool that will monitor system configurations and identify any deviations. In the future, whic\\' if th following should be used to identify incorrectly configured systems?

A. Baseline

B. Gap analysis

C. Benchmark

D. Current and future requirements

Correct Answer: A

Explanation: A baseline is a standard or reference point that is used to measure and compare the current state of a system or process. A baseline can be established for various aspects of a system, such as performance, security, configuration, functionality, or quality. A baseline can help to identify deviations, anomalies, or changes that occur over time, and to evaluate the impact of those changes on the system or process. A baseline can also help to restore a system or process to its original or desired state, by providing a reference for corrective actions. In this case, the organization has experienced repeated occurrences of system configurations becoming incorrect over time, which can

affect the security, reliability, and functionality of the systems. After implementing corrections on all system configurations across the enterprise, the CISO purchased an automated tool that will monitor system configurations and identify any deviations. In the future, the organization should use a baseline to identify incorrectly configured systems, by comparing the current system configurations with the baseline system configurations that were established after the corrections. A baseline can help the organization to detect and prevent configuration drift, which is the gradual but unintentional divergence of a system\\\'s actual configuration settings from its secure baseline configuration. A baseline can also help the organization to apply configuration management, which is the process of planning, identifying, controlling, and verifying the configuration of a system or process throughout its lifecycle. References: CompTIA Cloud Essentials+ CLO-002 Study Guide, Chapter 4: Cloud Security, Section 4.2: Cloud Security Concepts, Page 153. What a Baseline Configuration Is and How to Prevent Configuration Drift - Netwrix1 Configuration Baselines

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QUESTION 3

A company is planning to use cloud computing to extend the compute resources that will run a new resource- intensive application. A direct deployment to the cloud would cause unexpected billing. Which of the following must be generated while the application is running on-premises to predict the cloud budget for this project better?

A. Proof or concept

B. Benchmark

C. Baseline

D. Feasibility study

Correct Answer: C

Explanation: A baseline is a snapshot of the current state of a system or an environment that serves as a reference point for future comparisons. A baseline can capture various aspects of a system, such as performance, cost, configuration, and resource utilization. By generating a baseline while the application is running on-premises, the company can better predict the cloud budget for the project by estimating the cloud resources and services that would match or exceed the baseline values. A baseline can also help the company to monitor and optimize the cloud deployment and identify any anomalies or deviations from the expected behavior. References: CompTIA Cloud Essentials+ CLO-002 Study Guide, Chapter 5: Cloud Migration, page 1971; Addressing Cloud Security with Infrastructure Baselines - Fugue2

QUESTION 4

A web developer configured an application to have a local user database option to ensure the application can still be used if the corporate directory is not responsive to login requests. Which of the following security concepts BEST describes having this second database?

A. Access

B. Authorization

C. Auditing

D. Availability

Correct Answer: D

Explanation: Availability is one of the three basic functions of security management that are present in all systems. Availability is the assertion that a computer system is available or accessible by an authorized user whenever it is needed. Systems have high order of availability to ensure that the system operates as expected when needed1. Availability provides building of fault tolerance system in the products. It also ensures the backup processing by including hot and cold sites in the disaster recovery planning1. Having a local user database option to ensure the application can still be used if the corporate directory is not responsive to login requests is an example of availability, as it ensures that the users can access the application even if the primary authentication service is unavailable. This is a form of backup processing that provides an alternative means of accessing the application in case of a failure or outage. Having a local user database option does not affect the access, authorization, or auditing of the application, as these are related to the identification, verification, and monitoring of the users, not the availability of the application. References: Availability in Information Security - GeeksforGeeks; 5 Security Concepts Every Developer Should Understand; The 7 Basic Principles of IT Security - Techopedia.

QUESTION 5

Due to local natural disaster concerns, a cloud customer is transferring all of its cold storage data to servers in a safer geographic region. Which of the following risk response techniques is the cloud customer employing?

A. Avoidance

B. Transference

C. Mitigation

D. Acceptance

Correct Answer: A

Explanation: Avoidance is a risk response technique that involves changing the project plan to eliminate the risk or protect the project objectives from its impact. Avoidance can be done by modifying the scope, schedule, cost, or quality of the project. Avoidance is usually the most effective way to deal with a risk, but it may not always be possible or desirable. In this case, the cloud customer is transferring all of its cold storage data to servers in a safer geographic region, which means they are changing the location of their data storage to avoid the risk of a natural disaster affecting their data. This way, they are eliminating the possibility of losing their data due to a natural disaster in their original region. This is an example of avoidance as a risk response technique. References: CompTIA Cloud Essentials+ CLO-002 Study Guide, Chapter 4: Cloud Security, Section 4.2: Cloud Security Concepts, Page 153. 5 Risk Response Strategies ProjectEngineer1

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