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CompTIA DS0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Data and Database Security: This topic focuses on data security concepts, governance and regulatory compliance purposes, implementing authentication and authorization policies and best practices. Additionally, the topic discusses database infrastructure security, and understanding types of attacks and their effects on data systems.
Topic 2	<ul style="list-style-type: none"> • Business Continuity: Finally, this topic covers the importance of disaster recovery techniques. Moreover, the topic explains backup and restore best practices and processes.
Topic 3	<ul style="list-style-type: none"> • Database Management and Maintenance: Here, you'll learn about monitoring and reporting for database management and performance, common database maintenance processes, documentation production, and relevant tools usage. Lastly, the topic focuses on implementing data management tasks.
Topic 4	<ul style="list-style-type: none"> • Database Deployment: In this topic, you'll find discussions on database planning and design aspects. It also focuses on the implementation, testing, and deployment phases of databases.
Topic 5	<ul style="list-style-type: none"> • Database Fundamentals: This topic covers database structure types, SQL code development and modification based on scenarios, comparison of scripting methods and environments, and the impact of programming on database operations.

CompTIA DataSys+ Certification Exam Sample Questions (Q61-Q66):

NEW QUESTION # 61

A programmer wants to configure a database to only allow read or write access when requests are coming from specific IP addresses. Which of the following can be used to configure IP addresses to allow access to the database?

- A. IDNS
- B. Dynamic IP address
- **C. Firewall**
- D. Static IP address

Answer: C

Explanation:

The best option to configure IP addresses to allow access to the database is a firewall. A firewall is a network device or software that controls the incoming and outgoing traffic based on a set of rules or policies. A firewall can be used to filter the traffic by IP addresses, ports, protocols, or other criteria, and allow or deny access to the database accordingly. The other options are either not relevant or not sufficient for this task. For example, a static IP address is an IP address that does not change over time, but it does not determine the access to the database; a dynamic IP address is an IP address that changes periodically, but it does not control the traffic to the database; an IDNS is an Internet Domain Name System, which translates domain names into IP addresses, but it does not regulate the access to the database. Reference: CompTIA DataSys+ Course Outline, Domain 4.0 Data and Database Security, Objective 4.2 Given a scenario, implement security controls for databases.

NEW QUESTION # 62

A database administrator needs to ensure that a newly installed corporate business intelligence application can access the company's transactional data. Which of the following tasks should the administrator perform first?

- **A. Create a new service account exclusively for the business intelligence application.**
- B. Build a separate data warehouse customized to the business intelligence application's specifications.
- C. Open a new port on the database server exclusively for the business intelligence application.

- D. Set up a nightly FTP data transfer from the database server to the business intelligence application server.
- E. Send the business intelligence administrator the approved TNS names file to configure the data mapping.

Answer: A

Explanation:

The first task that the administrator should perform is to create a new service account exclusively for the business intelligence application. This will ensure that the application has the appropriate permissions and credentials to access the company's transactional data. The other options are either unnecessary, inefficient, or insecure. For example, building a separate data warehouse would require additional resources and time, setting up a nightly FTP data transfer would expose the data to potential breaches, sending the TNS names file would not guarantee that the application can connect to the database, and opening a new port on the database server would create a vulnerability for attackers. Reference: CompTIA DataSys+ Course Outline, Domain 2.0 Database Deployment, Objective 2.1 Given a scenario, install and configure database software and tools.

NEW QUESTION # 63

(Which of the following is a characteristic of a multizone region in a disaster recovery policy?)

- **A. Application high availability**
- B. Three or more availability zones
- C. Active/active deployment on secondary zones
- D. A single geographic location

Answer: A

Explanation:

The correct answer is C. Application high availability. CompTIA DataSys+ describes a multizone region as an architecture that deploys systems across multiple availability zones within the same geographic region to improve availability, fault tolerance, and resilience. Availability zones are physically separate data centers with independent power, cooling, and networking, but they are connected through low-latency links.

A key characteristic of a multizone disaster recovery (DR) design is high availability of applications. By distributing application components and databases across multiple zones, the system can continue operating even if one zone experiences a failure. DataSys+ emphasizes that multizone architectures are primarily designed to protect against localized infrastructure failures, such as power outages or hardware issues within a single zone, while maintaining service continuity.

Option A, three or more availability zones, is incorrect because a multizone region does not require a specific number of zones. Most implementations use two or more zones, and the exact count depends on the cloud provider and design requirements. Option B, a single geographic location, is misleading; while availability zones are within the same broader region, they are still separate physical locations and not a single data center. Option D, active/active deployment on secondary zones, more accurately describes a multi-region or advanced global DR strategy, not a basic multizone regional design. Secondary zones imply geographically separate regions used for regional disaster recovery.

CompTIA DataSys+ clearly distinguishes high availability from disaster recovery. Multizone deployments primarily focus on availability and fault tolerance within a region, while multi-region strategies address large-scale regional outages. In a multizone DR policy, applications are architected to remain available despite zone-level failures.

Therefore, the defining characteristic of a multizone region in a disaster recovery policy is application high availability, making option C the correct and fully verified answer.

NEW QUESTION # 64

Which of the following should a company develop to ensure preparedness for a fire in a data center?

- A. Data retention policy
- B. Deployment plan
- **C. Disaster recovery plan**
- D. Backup plan

Answer: C

Explanation:

The document that a company should develop to ensure preparedness for a fire in a data center is a disaster recovery plan. A disaster recovery plan is a document that outlines how an organization will continue its operations in the event of a disaster or disruption, such as fire, flood, earthquake, cyberattack, etc. A disaster recovery plan typically includes the following elements: - The

objectives and scope of the plan - The roles and responsibilities of the staff involved - The identification and assessment of the risks and impacts - The strategies and procedures for restoring the critical functions and data - The resources and tools required for the recovery process - The testing and maintenance schedule for the plan A disaster recovery plan helps an organization to minimize the damage and downtime caused by a disaster, as well as to resume normal operations as soon as possible. The other options are either different types of documents or not specific to fire preparedness. For example, a deployment plan is a document that describes how a system or software will be installed or launched; a backup plan is a document that specifies how data will be copied and stored for backup purposes; a data retention policy is a document that defines how long data should be kept and when it should be deleted or archived. Reference: CompTIA DataSys+ Course Outline, Domain 5.0 Business Continuity, Objective 5.4 Given a scenario, implement disaster recovery methods.

NEW QUESTION # 65

A database administrator is creating a table, which will contain customer data, for an online business. Which of the following SQL syntaxes should the administrator use to create an object?

- A.

```
CREATE CUSTOMER
(
  ID INT,
  NAME VARCHAR(100),
  AGE INT
)
```
- B.

```
CREATE TABLE CUSTOMER
(
  ID INT,
  NAME VARCHAR(100),
  AGE INT
)
```
- C.

```
CREATE
(
  TABLE CUSTOMER
  ID INT,
  NAME VARCHAR(100),
  AGE INT
)
```
- D.

```
CREATE TABLE
(
  ID INT,
  NAME VARCHAR(100),
  AGE INT
)
```

Answer: A

Explanation:

The SQL syntax that the administrator should use to create an object is option B. This syntax uses the CREATE TABLE statement to define a new table named customer with four columns:

