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## **Latest MuleSoft-Integration-Associate Dumps Ppt & Real MuleSoft-Integration-Associate Exam Questions**

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## **Salesforce Certified MuleSoft Integration Associate Exam Sample Questions (Q10-Q15):**

### **NEW QUESTION # 10**

During a planning session with the executive leadership, the development team director presents plans for a new API to expose the data in the company's order database. An earlier effort to build an API on top of this data failed, so the director is recommending a design-first approach.

Which characteristics of a design-first approach will help make this API successful?

- A. Building MUnit tests so administrators can confirm code coverage percentage during deployment

- B. Publishing the fully implemented API to Exchange so all developers can reuse the API
- C. Adding global policies to the API so all developers automatically secure the implementation before coding anything
- D. **Developing a specification so consumers can test before the implementation is built**

#### Answer: D

Explanation:

A design-first approach emphasizes creating the API specification before implementation, ensuring better alignment with consumer needs and reducing the risk of project failure. Here's a detailed explanation:

\* API Specification:

\* Definition: An API specification is a detailed, formal description of the API's endpoints, request/response formats, and protocols.

\* Consumer Testing: Allows API consumers (developers) to understand, test, and provide feedback on the API design before actual development begins.

\* Advantages:

\* Early Feedback: Consumers can test the API design using mock services or tools like API Designer and provide feedback, ensuring the API meets their requirements.

\* Reduced Rework: Identifies potential issues and design flaws early, reducing costly changes during the implementation phase.

\* Documentation: Provides comprehensive documentation that aids in the development and future maintenance of the API.

References

\* Design-First Approach: Design-First API Development

\* API Mocking: API Designer Mocking Service

#### NEW QUESTION # 11

A Kubernetes controller automatically adds another pod replica to the resource pool in response to increased application load. Which scalability option is the controller implementing?

- A. Vertical
- B. Down
- C. Diagonal
- D. **Horizontal**

#### Answer: D

Explanation:

Kubernetes offers several scalability options to handle varying application loads. The scenario described involves adding another pod replica in response to increased load, which is a form of horizontal scaling. Here's a detailed explanation:

\* Horizontal Scaling:

\* Definition: Horizontal scaling, also known as scaling out, involves adding more instances (pods) to distribute the load and increase capacity.

\* Implementation in Kubernetes: Kubernetes uses controllers like the Horizontal Pod Autoscaler (HPA) to automatically adjust the number of pod replicas based on observed CPU utilization or other select metrics.

\* Benefits:

\* Load Distribution: By adding more pod replicas, the load is evenly distributed, reducing the risk of any single pod being overwhelmed.

\* Fault Tolerance: Horizontal scaling enhances fault tolerance and availability, as multiple pod replicas can handle requests if one fails.

\* Automatic Scaling:

\* Kubernetes Controller: The HPA continuously monitors the application load and adjusts the number of pod replicas accordingly, ensuring optimal performance.

References

\* Kubernetes Documentation: Horizontal Pod Autoscaling

\* Kubernetes Scalability: Understanding Kubernetes Scaling

#### NEW QUESTION # 12

An IT integration team followed an API-led connectivity approach to implement an order-fulfillment business process. It created an order processing API that coordinates stateful interactions with a variety of microservices that validate, create and fulfill new product orders.

Which interaction composition pattern did the integration architect who designed this order processing API use?

- A. Aggregation
- **B. Orchestration**
- C. Streaming
- D. Multicasting

**Answer: B**

Explanation:

In an API-led connectivity approach, different APIs are layered to provide modular and reusable services. For an order processing API that coordinates stateful interactions with various microservices, the integration architect used the orchestration interaction composition pattern. Here's a step-by-step explanation:

\* Understanding Orchestration:

\* Definition: Orchestration involves coordinating multiple services to achieve a complex business workflow. Unlike choreography, which relies on each service knowing its part, orchestration uses a central controller to manage the interactions.

\* Role of the Orchestrator: The orchestrator manages the execution sequence, handles the state, and ensures all the necessary steps are completed successfully.

\* Order Processing API:

\* API-Led Connectivity: An order processing API, following API-led connectivity, sits in the Process layer, handling complex business processes and logic.

\* Stateful Interactions: Orchestration is particularly suitable for stateful interactions where the process needs to remember the state between steps, such as validating an order, creating it, and fulfilling it.

\* Implementation Steps:

\* Microservices Interaction: The order processing API interacts with various microservices:

\* Validation Microservice: Checks the validity of the order details.

\* Creation Microservice: Creates the order in the system

\* Fulfillment Microservice: Manages the order fulfillment process.

\* Coordination: The API orchestrates these steps, ensuring each one completes successfully before moving to the next, handling exceptions, and maintaining the state of the process.

References

\* MuleSoft Documentation: Orchestration Pattern

\* API-led Connectivity: MuleSoft API-led Connectivity

### NEW QUESTION # 13

According to MuleSoft which system integration term describes the method, format and protocol used for communication between two systems?

- **A. Interface**
- B. Interaction
- C. Message
- D. Component

**Answer: A**

Explanation:

In system integration, the term "interface" describes the method, format, and protocol used for communication between two systems. Here's a detailed explanation:

\* Interface:

\* Definition: An interface defines the point of interaction between two systems, specifying how data is exchanged, including the communication method, data format, and protocol.

\* Components: Typically includes API endpoints, data formats (e.g., JSON, XML), communication protocols (e.g., HTTP, HTTPS), and authentication mechanisms.

\* Importance:

\* Standardization: Ensures that different systems can communicate effectively by adhering to predefined standards and protocols.

\* Interoperability: Facilitates seamless interaction and data exchange between disparate systems, enhancing overall integration.

\* Examples:

\* RESTful APIs: Define interfaces using HTTP/HTTPS and data formats like JSON or XML.

\* SOAP Web Services: Use XML-based messages and protocols such as HTTP or HTTPS for communication.

References

\* MuleSoft Documentation: System Integration Concepts

\* Interface Design: API Interface

#### NEW QUESTION # 14

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\* API Mocking: API Designer Mocking Service

#### NEW QUESTION # 15

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