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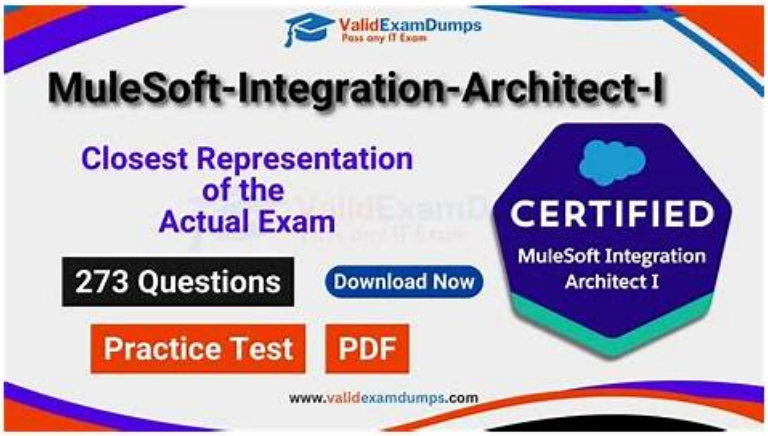

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Salesforce MuleSoft-Integration-Architect-I Exam Syllabus Topics:

Topic	Details
Topic 1	• Designing Architecture Using Integration Paradigms: This topic focuses on creating high-level integration architectures using various paradigms. It includes API-led connectivity, web APIs and HTTP, event-driven APIs, and message brokers, and designing Mule application using messaging patterns and technologies.
Topic 2	• Designing Automated Tests for Mule Applications: This topic covers unit test suites, and scenarios for integration and performance testing.
Topic 3	• Initiating Integration Solutions on Anypoint Platform: Summarizing MuleSoft Catalyst and Catalyst Knowledge Hub, differentiating between functional and non-functional requirements, selecting features for designing and managing APIs, and choosing deployment options are its sub-topics.
Topic 4	• Designing Integration Solutions to Meet Security Requirements: This topic emphasizes securing access to the Anypoint Platform and APIs, using Anypoint Security, counteracting security vulnerabilities, and understanding audit logging capabilities.
Topic 5	• Designing Integration Solutions to Meet Performance Requirements: This topic covers meeting performance and capacity goals, using streaming features, and processing large message sequences.
Topic 6	• Designing for the Runtime Plane Technology Architecture: It includes analyzing Mule runtime clusters, designing solutions for CloudHub, choosing Mule runtime domains, leveraging Mule 4 class loader isolation, and understanding the reactive event processing model.

Topic 7	• Applying DevOps Practices and Operating Integration Solutions: Its sub-topics are related to designing CI • CD pipelines with MuleSoft plugins, automating interactions with Anypoint Platform, designing logging configurations, and identifying Anypoint Monitoring features.
Topic 8	• Designing Integration Solutions to Meet Reliability Requirements: It includes selecting alternatives to traditional transactions, recognizing the purpose of various scopes and strategies, differentiating disaster recovery and high availability, and using local and XA transactions.
Topic 9	• Designing and Developing Mule Applications: It includes selecting application properties, using fundamental features, designing with core routers, understanding the Salesforce Connector, and leveraging core connectors.

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Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q56-Q61):

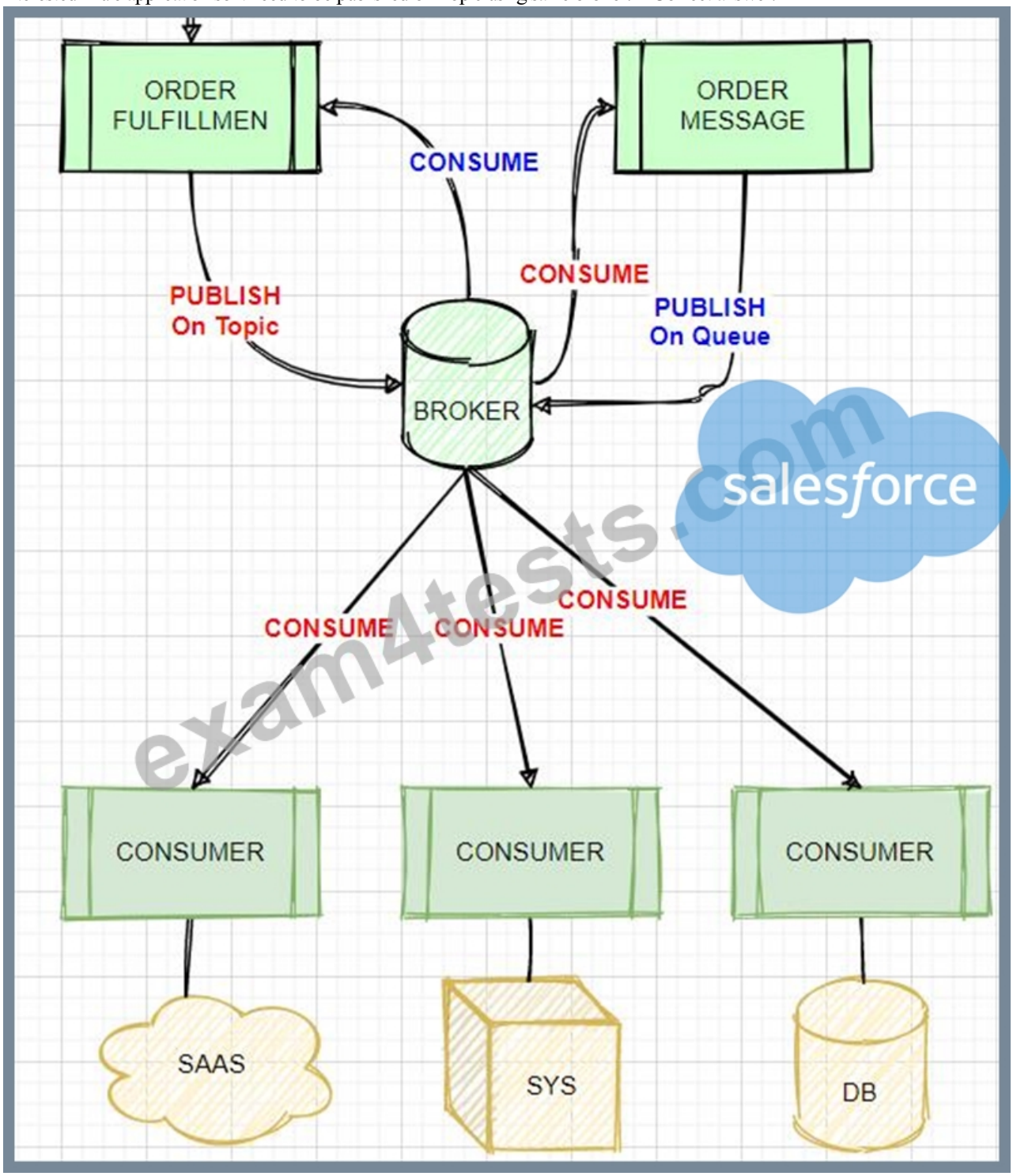
NEW QUESTION # 56
An Order microservice and a Fulfillment microservice are being designed to communicate with their dients through message-based integration (and NOT through API invocations).
The Order microservice publishes an Order message (a kind of command message) containing the details of an order to be fulfilled. The intention is that Order messages are only consumed by one Mute application, the Fulfillment microservice.
The Fulfilment microservice consumes Order messages, fulfills the order described therein, and then publishes an OrderFulfilted message (a kind of event message). Each OrderFulfilted message can be consumed by any interested Mule application, and the Order microservice is one such Mute application.
What is the most appropriate choice of message broker(s) and message destination(s) in this scenario?

- A. Order messages are sent to a JMS queue. OrderFulfilled messages are sent to a JMS topic The Order microservice interacts with one JMS provider (message broker) and the Fulfillment microservice interacts with a different JMS provider, so that both message brokers can be chosen and scaled to best support the load of each microservice
- B. Order messages are sent to a JMS queue. OrderFulfilled messages are sent to a JMS topic Both microservices interact with the same JMS provider (message broker) instance, which must therefore scale to support the load of both microservices
- C. Order messages are sent to an Anypoint MQ exchange OrderFulfilled messages are sent to an Anypoint MQ queue Both microservices interact with Anypoint MQ as the message broker, which must therefore scale to support the load of both microservices
- D. Order messages are sent directly to the Fulfillment microservices. OrderFulfilled messages are sent directly to the Order microservice The Order microservice interacts with one AMQP-compatible message broker and the Fulfillment microservice interacts with a different AMQP-compatible message broker, so that both message brokers can be chosen and scaled to best support the load of each microservice

Answer: B

Explanation:
* If you need to scale a JMS provider/ message broker, - add nodes to scale it horizontally or - add memory to scale it vertically * Cons of adding another JMS provider/ message broker: - adds cost. - adds complexity to use two JMS brokers - adds Operational overhead if we use two brokers, say, ActiveMQ and IBM MQ * So Two options that mention to use two brokers are not best choice. * It's mentioned that "The Fulfillment microservice consumes Order messages, fulfills the order described therein, and then publishes an OrderFulfilled message. Each OrderFulfilled message can be consumed by any interested Mule application." - When you publish a message on a topic, it goes to all the subscribers who are interested - so zero to many subscribers will receive a copy

of the message. - When you send a message on a queue, it will be received by exactly one consumer. * As we need multiple consumers to consume the message below option is not valid choice: "Order messages are sent to an Anypoint MQ exchange. OrderFulfilled messages are sent to an Anypoint MQ queue. Both microservices interact with Anypoint MQ as the message broker, which must therefore scale to support the load of both microservices" * Order messages are only consumed by one Mule application, the Fulfillment microservice, so we will publish it on queue and OrderFulfilled message can be consumed by any interested Mule application so it need to be published on Topic using same broker. * Correct answer:



NEW QUESTION # 57
The AnyAirline organization's passenger reservations center is designing an integration solution that combines invocations of three different System APIs (bookFlight, bookHotel, and bookCar) in a business transaction. Each System API makes calls to a single database.
The entire business transaction must be rolled back when at least one of the APIs fails.
What is the most idiomatic (used for its intended purpose) way to integrate these APIs in near real-time that provides the best

balance of consistency, performance, and reliability?

- A. Implement eXtended Architecture (XA) transactions between the API implementationsCoordinate between the API implementations using a Saga patternImplement caching in each API implementation to improve performance
- B. Implement an eXtended Architecture (XA) transaction manager in a Mule application using a Saga patternConnect each API implementation with the Mule application using XA transactionsApply various compensating actions depending on where a failure occurs
- C. Implement local transactions within each API implementationConfigure each API implementation to also participate in the same eXtended Architecture (XA) transactionImplement caching in each API implementation to improve performance
- D. Implement local transactions in each API implementationCoordinate between the API implementations using a Saga patternApply various compensating actions depending on where a failure occurs

Answer: D

Explanation:
Reference: https://aws.amazon.com/blogs/compute/building-a-serverless-distributed-application-using-a-saga- orchestration-pattern/

NEW QUESTION # 58
An organization is not meeting its growth and innovation objectives because IT cannot deliver projects last enough to keep up with the pace of change required by the business.
According to MuleSoft's IT delivery and operating model, which step should the organization lake to solve this problem?

- A. Modify IT governance and security controls so that line of business developers can have direct access to the organization's systems of record
- B. Hire more |T developers, architects, and project managers to increase IT delivery
- C. Switch from a design-first to a code-first approach for IT development
- D. Adopt a new approach that decouples core IT projects from the innovation that happens within each line of business

Answer: D

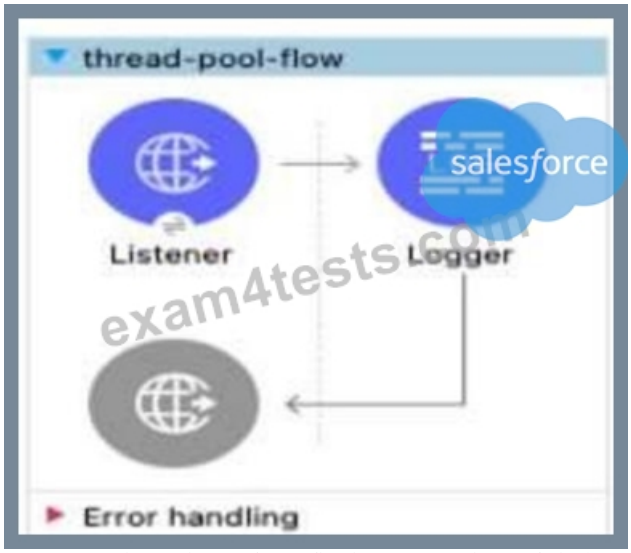
NEW QUESTION # 59
A Mule application is being designed To receive nightly a CSV file containing millions of records from an external vendor over SFTP, The records from the file need to be validated, transformed. And then written to a database. Records can be inserted into the database in any order.
In this use case, what combination of Mule components provides the most effective and performant way to write these records to the database?

- A. Use a DataWeave map operation and an Async scope to insert records one by one into the database.
- B. Use a Parallel for Each scope to Insert records one by one into the database
- C. Use a Scatter-Gather to bulk insert records into the database
- D. Use a Batch job scope to bulk insert records into the database.

Answer: D

Explanation:
Correct answer is Use a Batch job scope to bulk insert records into the database
* Batch Job is most efficient way to manage millions of records.
A few points to note here are as follows :
Reliability: If you want reliabilty while processing the records, i.e should the processing survive a runtime crash or other unhappy scenarios, and when restarted process all the remaining records, if yes then go for batch as it uses persistent queues.
Error Handling: In Parallel for each an error in a particular route will stop processing the remaining records in that route and in such case you'd need to handle it using on error continue, batch process does not stop during such error instead you can have a step for failures and have a dedicated handling in it.
Memory footprint: Since question said that there are millions of records to process, parallel for each will aggregate all the processed records at the end and can possibly cause Out Of Memory.
Batch job instead provides a BatchResult in the on complete phase where you can get the count of failures and success. For huge file processing if order is not a concern definitely go ahead with Batch Job

NEW QUESTION # 60
Refer to the exhibit.



A customer is running Mule applications on Runtime Fabric for Self-Managed Kubernetes (RTF-BYOKS) in a multi-cloud environment.
Based on this configuration, how do Agents and Runtime Manager
communicate, and what Is exchanged between them?

- A. Shared NIO Selector Pool, CPU_LITE
- B. CPU_LITE, CPU_INTENSIVE
- C. UBER, Dedicated NIO Selector Pool
- D. BLOCKING_IO, UBER

Answer: D

NEW QUESTION # 61
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