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

Topic	Details
Topic 1	<ul style="list-style-type: none">Designing Integration Solutions to Meet Persistence Requirements: It addresses the usage of VM queues and connectors, object stores and services, and stateful components configured with object stores.
Topic 2	<ul style="list-style-type: none">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.
Topic 3	<ul style="list-style-type: none">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	<ul style="list-style-type: none"> 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 5	<ul style="list-style-type: none"> 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 6	<ul style="list-style-type: none"> Designing Integration Solutions to Meet Performance Requirements: This topic covers meeting performance and capacity goals, using streaming features, and processing large message sequences.
Topic 7	<ul style="list-style-type: none"> 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 8	<ul style="list-style-type: none"> 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 9	<ul style="list-style-type: none"> Designing Automated Tests for Mule Applications: This topic covers unit test suites, and scenarios for integration and performance testing.

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Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q241-Q246):

NEW QUESTION # 241

An organization is designing a Mule application to periodically poll an SFTP location for new files containing sales order records and then process those sales orders. Each sales order must be processed exactly once.

To support this requirement, the Mule application must identify and filter duplicate sales orders on the basis of a unique ID contained in each sales order record and then only send the new sales orders to the downstream system.

What is the most idiomatic (used for its intended purpose) Anypoint connector, validator, or scope that can be configured in the Mule application to filter duplicate sales orders on the basis of the unique ID field contained in each sales order record?

- A. Configure a Cache scope to filter and store each record from the received file by the order ID
- B. Configure a Database connector to filter and store each record by the order ID
- C. Configure a watermark In an On New or Updated File event source to filter unique records by the order ID
- D. Configure an Idempotent Message Validator component to filter each record by the order ID**

Answer: D

Explanation:

Reference: <https://docs.mulesoft.com/mule-runtime/3.9/idempotent-filter>

NEW QUESTION # 242

An IT integration tram followed an API-led connectivity approach to implement an order-fulfillment business process. It created an order processing AP 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 AP| use?

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

Answer: C

NEW QUESTION # 243

A platform architect includes both an API gateway and a service mesh in the architect of a distributed application for communication management.

Which type of communication management does a service mesh typically perform in this architecture?

- A. Between services within the application
- B. Between the application and external API clients
- C. Between application services and the firewall
- D. Between the application and external API implementations.

Answer: A

Explanation:

In a distributed application architecture, a service mesh typically manages communication between services within the application. A service mesh provides a dedicated infrastructure layer that handles service-to-service communication, including service discovery, load balancing, failure recovery, metrics, and monitoring. This allows developers to offload these operational concerns from individual services, ensuring consistent and reliable inter-service communication.

References:

- * Understanding Service Mesh
- * Service Mesh for Microservices

NEW QUESTION # 244

An Order microservice and a Fulfillment microservice are being designed to communicate with their clients 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 Mule application, the Fulfillment microservice.

The Fulfillment microservice consumes Order messages, fulfills the order described therein, and then publishes an OrderFulfilled message (a kind of event message). Each OrderFulfilled message can be consumed by any interested Mule application, and the Order microservice is one such Mule application.

What is the most appropriate choice of message broker(s) and message destination(s) in this scenario?

- A. 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
- B. 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
- C. 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
- D. 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

Answer: C

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 # 245

Which Mulesoft feature helps users to delegate their access without sharing sensitive credentials or giving full control of accounts to 3rd parties?

- A. Certificates
- B. client id enforcement policy
- C. Secure Scheme
- D. Connected apps

Answer: D

Explanation:

Connected Apps

The Connected Apps feature provides a framework that enables an external application to integrate with Anypoint Platform using APIs through OAuth 2.0 and OpenID Connect. Connected apps help users delegate their access without sharing sensitive credentials or giving full control of their accounts to third parties. Actions taken by connected apps are audited, and users can also revoke access at any time. Note that some products do not currently include client IDs in this release of the Connected Apps feature. The Connected Apps feature enables you to use secure authentication protocols and control an app's access to user data. Additionally, end users can authorize the app to access their Anypoint Platform data.

Mule Ref Doc : <https://docs.mulesoft.com/access-management/connected-apps-overview>

NEW QUESTION # 246

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