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

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<ul style="list-style-type: none"> • 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.

Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q233-Q238):

NEW QUESTION # 233

An organization is designing an integration Mule application to process orders by submitting them to a back- end system for offline processing. Each order will be received by the Mule application through an HTTPS POST and must be acknowledged immediately. Once acknowledged, the order will be submitted to a back- end system. Orders that cannot be successfully submitted due to rejections from the back-end system will need to be processed manually (outside the back-end system).

The Mule application will be deployed to a customer-hosted runtime and is able to use an existing ActiveMQ broker if needed. The ActiveMQ broker is located inside the organization's firewall. The back-end system has a track record of unreliability due to both minor network connectivity issues and longer outages.

What idiomatic (used for their intended purposes) combination of Mule application components and ActiveMQ queues are required to ensure automatic submission of orders to the back-end system while supporting but minimizing manual order processing?

- **A. An Until Successful scope to call the back-end systemOne or more ActiveMQ long-retry queuesOne or more ActiveMQ dead-letter queues for manual processing**
- B. One or more On Error scopes to assist calling the back-end systemAn Until Successful scope containing VM components for long retriesA persistent dead-letter VM queue configured in CloudHub
- C. One or more On Error scopes to assist calling the back-end systemOne or more ActiveMQ long-retry queuesA persistent dead-letter object store configured in the CloudHub Object Store service
- D. A Batch Job scope to call the back-end systemAn Until Successful scope containing Object Store components for long retriesA dead-letter object store configured in the Mule application

Answer: A

NEW QUESTION # 234

An organization is creating a Mule application that will be deployed to CloudHub. The Mule application has a property named dbPassword that stores a database user's password.

The organization's security standards indicate that the dbPassword property must be hidden from every Anypoint Platform user after the value is set in the Runtime Manager Properties tab.

What configuration in the Mule application helps hide the dbPassword property value in Runtime Manager?

- A. Add the dbPassword property to the secureProperties section of the pom.xml file
- B. Use secure::dbPassword as the property placeholder name and store the cleartext (unencrypted) value in a secure properties placeholder file
- C. Add the dbPassword property to the secureProperties section of the mule-artifact.json file
- **D. Use secure::dbPassword as the property placeholder name and store the property encrypted value in a secure properties placeholder file**

Answer: D

NEW QUESTION # 235

A customer wants to use the mapped diagnostic context (MDC) and logging variables to enrich its logging and improve tracking by providing more context in the logs.

The customer also wants to improve the throughput and lower the latency of message processing.

As an Mulesoft integration architect can you advise, what should the customer implement to meet these requirements?

- A. Use synchronous logging and use pattern layout with [%MDC] in the log4j2.xml configuration file and then configure the logging variables
- **B. Use async logger at the level greater than INFO and use pattern layout with [%MDC] in the log4j2.xml configuration file and then configure the logging variables**
- C. Use async logger at the level equal to DEBUG or TRACE and use pattern layout with [%MDC] in the log4j2.xml configuration file and then configure the logging variables
- D. Use synchronous logging at the INFO, DEBUG or Trace level and use pattern layout with [%MDC] in the log4j2.xml configuration file and then configure the logging variables

Answer: B

Explanation:

To meet the requirements of enriching logging with more context and improving throughput while reducing latency, the customer should use an asynchronous logging approach. Here's why option B is correct:

* Async Logger: Asynchronous logging helps in improving the performance by decoupling the logging from the main thread of execution. This reduces the latency of message processing since logging operations are offloaded to a separate thread.

* Logging Level Greater than INFO: Logging at levels such as WARN, ERROR, or FATAL ensures that only essential logs are written asynchronously, further enhancing performance. Avoiding DEBUG or TRACE levels unless necessary reduces the overhead of logging.

* Pattern Layout with [%MDC]: Using the pattern layout with [%MDC] in the log4j2.xml configuration file allows the inclusion of mapped diagnostic context in the logs. MDC is a feature that provides context-specific information, such as transaction IDs or user IDs, which helps in tracing and debugging.

Example configuration in log4j2.xml:

```
<Configuration status="WARN"> <Appenders> <Console name="Console" target="SYSTEM_OUT">
<PatternLayout pattern="%d{yyyy-MM-dd HH:mm:ss} [%t] %-5p %c{1} - %msg [%MDC]%n"/> <
/Console> <Async name="Async"> <AppenderRef ref="Console"/> </Async> </Appenders> <Loggers>
<Root level="WARN"> <AppenderRef ref="Async"/> </Root> </Loggers> </Configuration>
```

This configuration ensures that the logs are enriched with context information provided by MDC and processed asynchronously to maintain high throughput and low latency.

References

* Log4j2 Asynchronous Logging

* Mapped Diagnostic Context (MDC) in Log4j2

NEW QUESTION # 236

A Mule application is being designed to do the following:

Step 1: Read a SalesOrder message from a JMS queue, where each SalesOrder consists of a header and a list of SalesOrderLineItems.

Step 2: Insert the SalesOrder header and each SalesOrderLineItem into different tables in an RDBMS.

Step 3: Insert the SalesOrder header and the sum of the prices of all its SalesOrderLineItems into a table in a different RDBMS.

No SalesOrder message can be lost and the consistency of all SalesOrder-related information in both RDBMSs must be ensured at all times.

What design choice (including choice of transactions) and order of steps addresses these requirements?

- A. 1) Read the JMS message in an XA transaction 2) In the SAME XA transaction, perform BOTH DB inserts but do NOT acknowledge the JMS message
- **B. 1) Read the JMS message (NOT in an XA transaction) 2) Perform BOTH DB inserts in ONE DB transaction 3) Acknowledge the JMS message**
- C. 1) Read and acknowledge the JMS message (NOT in an XA transaction) 2) In a NEW XA transaction, perform BOTH DB inserts
- D. 1) Read the JMS message (NOT in an XA transaction) 2) Perform EACH DB insert in a SEPARATE DB transaction 3) Acknowledge the JMS message

Answer: B

Explanation:

Option A says "Perform EACH DB insert in a SEPARATE DB transaction". In this case if first DB insert is successful and second one fails then first insert won't be rolled back causing inconsistency. This option is ruled out.

Option D says Perform BOTH DB inserts in ONE DB transaction.

Rule of thumb is when one or more DB connections are required we must use XA transaction as local transactions support only one resource. So this option is also ruled out.

Option B acknowledges the before DB processing, so message is removed from the queue. In case of system failure at later point, message can't be retrieved.

Option C is Valid: Though it says "do not ack JMS message", message will be auto acknowledged at the end of transaction. Here is how we can ensure all components are part of XA transaction: <https://docs.mulesoft.com/jms-connector/1.7/jms-transactions>

Additional Information about transactions:

XA Transactions - You can use an XA transaction to group together a series of operations from multiple transactional resources, such as JMS, VM or JDBC resources, into a single, very reliable, global transaction.

The XA (eXtended Architecture) standard is an X/Open group standard which specifies the interface between a global transaction manager and local transactional resource managers.

The XA protocol defines a 2-phase commit protocol which can be used to more reliably coordinate and sequence a series of "all or nothing" operations across multiple servers, even servers of different types

Use JMS ack if

- Acknowledgment should occur eventually, perhaps asynchronously
- The performance of the message receipt is paramount
- The message processing is idempotent
- For the choreography portion of the SAGA pattern

Use JMS transactions

- For all other times in the integration you want to perform an atomic unit of work

- When the unit of work comprises more than the receipt of a single message

- To simply and unify the programming model (begin/commit/rollback)

- To simply and unify the programming model (begin/commit/rollback)

NEW QUESTION # 237

What aspects of a CI/CD pipeline for Mule applications can be automated using MuleSoft-provided Maven plugins?

- A. Compile, package, unit test, deploy, integration test (Incorrect)
- **B. Compile, package, unit test, validate unit test coverage, deploy**
- C. Compile, package, unit test, deploy, create associated API instances in API Manager
- D. Import from API designer, compile, package, unit test, deploy, publish to Anypoint Exchange

Answer: B

Explanation:

Correct answer is "Compile, package, unit test, validate unit test coverage, deploy" Explanation : Anypoint Platform supports continuous integration and continuous delivery using industry standard tools Mule Maven Plugin The Mule Maven plugin can automate building, packaging and deployment of Mule applications from source projects Using the Mule Maven plugin, you can automate your Mule application deployment to CloudHub, to Anypoint Runtime Fabric, or on-premises, using any of the following deployment strategies * CloudHub deployment * Runtime Fabric deployment * Runtime Manager REST API deployment * Runtime Manager agent deployment MUnit Maven Plugin The MUnit Maven plugin can automate test execution, and ties in with the Mule Maven plugin. It provides a full suite of integration and unit test capabilities, and is fully integrated with Maven and Surefire for integration with your continuous deployment environment. Since MUnit 2.x, the coverage report goal is integrated with the maven reporting section. Coverage Reports are generated during Maven's site lifecycle, during the coverage-report goal. One of the features of MUnit Coverage is to fail the build if a certain coverage level is not reached. MUnit is not used for integration testing Also publishing to Anypoint Exchange or to create associated API instances in API Manager is not a part of CI/CD pipeline which can be achieved using mulesoft provided maven plugin Explanation:

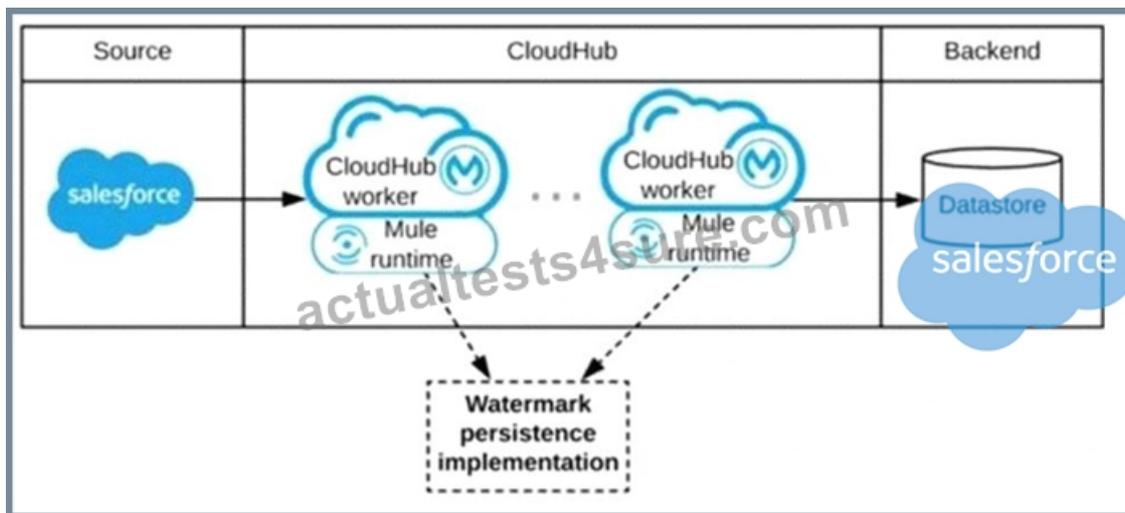
Architecture mentioned in the question can be diagrammatically put as below. Persistent Object Store is the correct answer .

* Mule Object Stores: An object store is a facility for storing objects in or across Mule applications. Mule uses object stores to persist data for eventual retrieval.

Mule provides two types of object stores:

1) In-memory store - stores objects in local Mule runtime memory. Objects are lost on shutdown of the Mule runtime. So we cant use in memory store in our scenario as we want to share watermark within all cloudhub workers

2) Persistent store - Mule persists data when an object store is explicitly configured to be persistent. Hence this watermark will be available even any of the worker goes down Diagram Description automatically generated



NEW QUESTION # 238

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