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

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<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.

- 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 (Q106-Q111):

NEW QUESTION # 106

When a Mule application using VM queues is deployed to a customer-hosted cluster or multiple CloudHub v1.0 workers/replicas, how are messages consumed across the nodes?

- A. In a non-deterministic way
- **B. Sequentially, from a dedicated Anypoint MQ queue**
- C. Sequentially, only from the primary node
- D. Round-robin, within an XA transaction

Answer: B

NEW QUESTION # 107

An external web UI application currently accepts occasional HTTP requests from client web browsers to change (insert, update, or delete) inventory pricing information in an inventory system's database. Each inventory pricing change must be transformed and then synchronized with multiple customer experience systems in near real-time (in under 10 seconds). New customer experience systems are expected to be added in the future.

The database is used heavily and limits the number of SELECT queries that can be made to the database to 10 requests per hour per user.

What is the most scalable, idiomatic (used for its intended purpose), decoupled, reusable, and maintainable integration mechanism available to synchronize each inventory pricing change with the various customer experience systems in near real-time?

- A. Write a Mule application with a Database On Table Row event source configured for the inventory pricing database, with the ID attribute set to an appropriate database column In the same flow, use a Batch Job scope to publish transformed Inventory-pricing records to an Anypoint MQ queue Write other Mule applications to subscribe to the Anypoint MQ queue, transform each received message, and then update the Mule application's corresponding customer experience system(s)
- **B. Add a trigger to the inventory-pricing database table so that for each change to the inventory pricing database, a stored procedure is called that makes a REST call to a Mule application Write the Mule application to publish each Mule event as a message to an Anypoint MQ exchange Write other Mule applications to subscribe to the Anypoint MQ exchange, transform each received message, and then update the Mule application's corresponding customer experience system(s)**
- C. Replace the external web UI application with a Mule application to accept HTTP requests from client web browsers In the same Mule application, use a Batch Job scope to test if the database request will succeed, aggregate pricing changes within a short time window, and then update both the inventory pricing database and each customer experience system using a Parallel For Each scope
- D. Write a Mule application with a Database On Table Row event source configured for the inventory pricing database, with the watermark attribute set to an appropriate database column In the same now, use a Scatter-Gather to call each customer experience system's REST API with transformed inventory-pricing records

Answer: B

NEW QUESTION # 108

An organization will deploy Mule applications to Cloudhub, Business requirements mandate that all application logs be stored ONLY in an external splunk consolidated logging service and NOT in Cloudhub.

In order to most easily store Mule application logs ONLY in Splunk, how must Mule application logging be configured in Runtime Manager, and where should the log4j2 splunk appender be defined?

- A. Keep the default logging configuration in RuntimeManager
Define the splunk appender in ONE global log4j.xml file that is uploaded once to Runtime Manager to support at Mule application deployments.
- B. Keep the default logging configuration in Runtime Manager
Define the Splunk appender in EACH Mule application log4j2.xml file
- C. Disable Cloudhub logging in Runtime Manager
Define the splunk appender in EACH Mule application's log4j2.xml file
- D. Disable Cloudhub logging in Runtime Manager
Define the splunk appender in ONE global log4j.xml file that is uploaded once to Runtime Manger to support at Mule application deployments.

Answer: C

Explanation:

By default, CloudHub replaces a Mule application's log4j2.xml file with a CloudHub log4j2.xml file. In CloudHub, you can disable the CloudHub provided Mule application log4j2 file. This allows integrating Mule application logs with custom or third-party log management systems

NEW QUESTION # 109

A finance giant is planning to migrate all its Mule applications to Runtime fabric (RTF). Currently all Mule applications are deployed cloud hub using automated CI/CD scripts.

As an integration architect, which of the below step would you suggest to ensure that the applications from cloudhub are migrated properly to Runtime Fabric (RTF) with an assumption that organization is keen on keeping the same deployment strategy.

- A. runtimeFabric dependency should be added as a mule plug-in to POM.xml file and CI/CD script should be modified as per the RTF configurations
- B. runtimeFabric deployment should be added to POM.xml file in all the mule applications and CI/CD script should be modified as per the RTF configurations
- C. runtimeFabric profile should be added mule configuration files in the mule applications and CI /CD script should be modified as per the RTF configurations
- D. No changes need to be made to POM.xml file and CI/CD script should be modified as per the RTF configurations

Answer: B

Explanation:

To migrate Mule applications from CloudHub to Runtime Fabric (RTF) while maintaining the same deployment strategy using CI/CD, follow these steps:

* POM.xml Modification: Update the POM.xml file of each Mule application to include runtimeFabric deployment configurations.

This ensures that the applications are packaged and prepared correctly for deployment to RTF.

* CI/CD Script Adjustments: Modify the existing CI/CD scripts to accommodate RTF-specific deployment commands and configurations. This includes updating the deployment targets and parameters to match the RTF environment.

* Deployment Strategy: Ensure that the CI/CD pipeline remains consistent with the organization's existing strategy, but with the necessary changes to support RTF. This might involve using Anypoint CLI or API to interact with RTF.

By updating the POM.xml and CI/CD scripts, you can ensure a smooth transition from CloudHub to RTF while retaining the automated deployment process.

References:

* MuleSoft Runtime Fabric

* Mule Maven Plugin

NEW QUESTION # 110

A bank is implementing a REST API in a Mule application to receive an array of accounts from an online banking platform user interface (UI), retrieve account balances for those accounts from a backend Finance system, and then return the account balances so they can be displayed in the online banking platform UI. As part of the processing, the MuleSoft API also needs to insert the retrieved account data into an Audit Database for auditing purposes. The auditing process should not add latency to the account balance retrieval response back to the online banking platform UI.

The retrieveBalances flow in the Mule application is designed to use an operation in a connector to the Finance system (the Finance operation) that can only look up one account record at a time, and an operation from a different connector to the Audit system (the Audit operation) that can only insert one account record at a time.

To best meet the performance-related requirements, what scope or scopes should be used and how should they be used to incorporate the Finance operation and Audit operation into the retrieveBalances flow?

- A. Wrap both connector operations in a Async scope.
- B. Wrap both connector operations in a For-Each scope.
- **C. Wrap the Finance operation in a Parallel For-Each scope. Wrap the Audit operation in a Async scope.**
- D. Wrap the Finance operation in a Until-Successful scope. Wrap the Audit operation in a Try-Catch scope.

Answer: C

Explanation:

- * Understanding the Operations:
 - * The Finance operation can only look up one account record at a time.
 - * The Audit operation can only insert one account record at a time.
- * Parallel For-Each Scope:
 - * Finance Operation: Use a Parallel For-Each scope to process multiple account lookups simultaneously.
 - * This improves performance by allowing concurrent processing of account records, leveraging parallelism.
- * Async Scope:
 - * Audit Operation: Use an Async scope to handle the insertion of account records independently.
 - * The Async scope ensures that the Audit operation does not block the main processing flow, allowing other processes to continue without waiting for the Audit operation to complete.
- * Performance Optimization:
 - * Combining Parallel For-Each for the Finance operation and Async scope for the Audit operation maximizes throughput.
 - * This approach ensures efficient use of resources and reduces latency by parallelizing account lookups and asynchronously handling audit inserts.

MuleSoft Documentation on Scopes: Mule Scopes

MuleSoft Best Practices for Performance: Performance Best Practices

NEW QUESTION # 111

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The talent is everywhere in modern society. This is doubly true for IT field. With the popularity of the computer, hardly anyone can't use a computer. Working in the IT industry, don't you feel pressure? Educational level is not representative of your strength. Education is just a ticket, however really keeping your status is your strength. As IT staff, how to cultivate your strength? It is a good choice to take IT certification test which can not only help you master more skills, also can get the certificate to prove your ability. Do you want to take Salesforce MuleSoft-Integration-Architect-I Exam that is very popular in recent?

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