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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 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 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 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 6	<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 7	<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.
Topic 8	<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 9	<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.

Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q228-Q233):

NEW QUESTION # 228

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

Answer: C

NEW QUESTION # 229

Refer to the exhibit.

One of the backend systems invoked by an API implementation enforces rate limits on the number of requests a particular client can make. Both the backend system and the API implementation are deployed to several non-production environments in addition to production.

Rate limiting of the backend system applies to all non-production environments. The production environment, however, does NOT have any rate limiting.

What is the most effective approach to conduct performance tests of the API implementation in a staging (non- production)

environment?

- **A. Create a mocking service that replicates the backend system's production performance characteristics. Then configure the API implementation to use the mocking service and conduct the performance tests**
- B. Use MUnit to simulate standard responses from the backend system then conduct performance tests to identify other bottlenecks in the system
- C. Conduct scaled-down performance tests in the staging environment against the rate limited backend system then upscale performance results to full production scale
- D. Include logic within the API implementation that bypasses invocations of the backend system in a performance test situation. Instead invoking local stubs that replicate typical backend system responses then conduct performance tests using this API Implementation

Answer: A

Explanation:

Correct answer is Create a mocking service that replicates the backend system's production performance characteristics. Then configure the API implementation to use the mocking service and conduct the performance tests

* MUnit is for only Unit and integration testing for APIs and Mule apps. Not for performance Testing, even if it has the ability to Mock the backend.

* Bypassing the backend invocation defeats the whole purpose of performance testing. Hence it is not a valid answer.

* Scaled down performance tests cant be relied upon as performance of API's is not linear against load.

NEW QUESTION # 230

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 and acknowledge the JMS message (NOT in an XA transaction)2) In a NEW XA transaction, perform BOTH DB inserts
- B. 1) Read the JMS message in an XA transaction2) In the SAME XA transaction, perform BOTH DB inserts but do NOT acknowledge the JMS message
- **C. 1) Read the JMS message (NOT in an XA transaction)2) Perform BOTH DB inserts in ONE DB transaction3) Acknowledge the JMS message**
- D. 1) Read the JMS message (NOT in an XA transaction)2) Perform EACH DB insert in a SEPARATE DB transaction3) Acknowledge the JMS message

Answer: C

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)

NEW QUESTION # 231

Organization wants to achieve high availability goal for Mule applications in customer hosted runtime plane.

Due to the complexity involved, data cannot be shared among of different instances of same Mule application.

What option best suits to this requirement considering high availability is very much critical to the organization?

- A. High availability can be achieved only in CloudHub
- **B. Use third party product to implement load balancer**
- C. Use persistent object store
- D. The cluster can be configured

Answer: B

Explanation:

High availability is about up-time of your application

A) High availability can be achieved only in CloudHub isn't correct statement. It can be achieved in customer hosted runtime planes as well B) An object store is a facility for storing objects in or across Mule applications. Mule runtime engine (Mule) uses object stores to persist data for eventual retrieval. It can be used for disaster recovery but not for High Availability. Using object store can't guarantee that all instances won't go down at once. So not an appropriate choice.

NEW QUESTION # 232

Refer to the exhibit.

□ What is the type data format shown in the exhibit?

- A. YAML
- B. CSV
- **C. JSON**
- D. XML

Answer: C

NEW QUESTION # 233

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