

MuleSoft-Integration-Architect-I Certification Exam

Infor - MuleSoft-Integration-Architect-I Clearer Explanation



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

Topic	Details
Topic 1	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 2	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 3	Designing Integration Solutions to Meet Performance Requirements: This topic covers meeting performance and capacity goals, using streaming features, and processing large message sequences.
Topic 4	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	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 6	• 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 7	• Designing Automated Tests for Mule Applications: This topic covers unit test suites, and scenarios for integration and performance testing.
Topic 8	• 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 9	• 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.

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Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q69-Q74):

NEW QUESTION # 69

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

References:

* MuleSoft Documentation on Scopes: Mule Scopes

* MuleSoft Best Practices for Performance: Performance Best Practices

NEW QUESTION # 70

Refer to the exhibit.

□ An organization uses a 2-node Mule runtime cluster to host one stateless API implementation. The API is accessed over HTTPS through a load balancer that uses round-robin for load distribution.

Two additional nodes have been added to the cluster and the load balancer has been configured to recognize the new nodes with no other change to the load balancer.

What average performance change is guaranteed to happen, assuming all cluster nodes are fully operational?

- A. 100% increase in the throughput of the API
- B. 50% reduction in the response time of the API
- C. 50% reduction in the number of requests being received by each node
- D. 50% reduction in the JVM heap memory consumed by each node

Answer: C

NEW QUESTION # 71

Mule application is deployed to Customer Hosted Runtime. Asynchronous logging was implemented to improve throughput of the system. But it was observed over the period of time that few of the important exception log messages which were used to rollback transactions are not working as expected causing huge loss to the Organization. Organization wants to avoid these losses.

Application also has constraints due to which they can't compromise on throughput much. What is the possible option in this case?

- A. Mixed configuration of asynchronous or synchronous loggers should be used to log exceptions via synchronous way
- B. Persistent memory storage should be used in such scenarios
- C. Logging needs to be changed from asynchronous to synchronous
- D. External log appender needs to be used in this case

Answer: A

Explanation:

Correct approach is to use Mixed configuration of asynchronous or synchronous loggers should be used to log exceptions via synchronous way. Asynchronous logging poses a performance-reliability trade-off. You may lose some messages if Mule crashes before the logging buffers flush to the disk. In this case, consider that you can have a mixed configuration of asynchronous or synchronous loggers in your app. Best practice is to use asynchronous logging over synchronous with a minimum logging level of WARN for a production application. In some cases, enable INFO logging level when you need to confirm events such as successful policy installation or to perform troubleshooting. Configure your logging strategy by editing your application's src/main/resources/log4j2.xml file

NEW QUESTION # 72

A MuleSoft developer must implement an API as a Mule application, run the application locally, and execute unit tests against the Running application.

Which Anypoint Platform component can the developer use to fulfill all of these requirements?

- A. API Designer
- B. Anypoint Studio
- C. API Manager
- D. Anypoint CLI

Answer: B

Explanation:

A MuleSoft developer can use Anypoint Studio to implement an API as a Mule application, run the application locally, and execute unit tests against the running application. Anypoint Studio is an integrated development environment (IDE) for designing, building, testing, and deploying Mule applications. It provides tools for local development and testing, including MUnit for creating and running unit tests, making it a comprehensive solution for developing MuleSoft applications.

References:

- * Anypoint Studio Overview
- * Using MUnit for Unit Testing

NEW QUESTION # 73

A Mule application is synchronizing customer data between two different database systems.

What is the main benefit of using XA transaction over local transactions to synchronize these two database system?

- A. Reduce latency
- B. Increase throughput
- C. Ensure consistency
- D. Simplifies communication

Answer: C

Explanation:

* XA transaction add tremendous latency so "Reduce Latency" is incorrect option XA transactions define "All or No" commit protocol.

* Each local XA resource manager supports the A.C.I.D properties (Atomicity, Consistency, Isolation, and Durability).

----- So correct choice is "Ensure consistency"

NEW QUESTION # 74

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