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

Topic	Details
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Topic 1	• 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	• 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	• 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	• 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	• 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 (Q138-Q143):

NEW QUESTION # 138

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. Conduct scaled-down performance tests in the staging environment against the rate limited backend system then upscale performance results to full production scale
- B. Use MUnit to simulate standard responses from the backend system then conduct performance tests to identify other bottlenecks in the system
- C. 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
- D. 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

Answer: D

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 can't be relied upon as performance of APIs is not linear against load.

NEW QUESTION # 139

A Mule application contains a Batch Job scope with several Batch Step scopes. The Batch Job scope is configured with a batch block size of 25.

A payload with 4,000 records is received by the Batch Job scope.

When there are no errors, how does the Batch Job scope process records within and between the Batch Step scopes?

- A. The Batch Job scope processes multiple record blocks in parallel. Each Batch Step scope is invoked with a batch of 25 records in the payload of the received Mule event. For each Batch Step scope, all 4000 records are processed in parallel. Individual records can jump ahead to the next Batch Step scope before the rest of the records finish processing in the current Batch Step scope.
- B. The Batch Job scope processes each record block sequentially, one at a time. Each Batch Step scope is invoked with one record in the payload of the received Mule event. For each Batch Step scope, all 25 records within a block are processed sequentially, one at a time. All 4000 records must be completed before the blocks of records are available to the next Batch Step scope.
- C. The Batch Job scope processes multiple record blocks in parallel, and a block of 25 records can jump ahead to the next Batch Step scope over an earlier block of records. Each Batch Step scope is invoked with one record in the payload of the received Mule event. For each Batch Step scope, all 25 records within a block are processed sequentially, one record at a time. All the records in a block must be completed before the block of 25 records is available to the next Batch Step scope.
- **D. The Batch Job scope processes multiple record blocks in parallel, and a block of 25 records can jump ahead to the next Batch Step scope over an earlier block of records. Each Batch Step scope is invoked with one record in the payload of the received Mule event. For each Batch Step scope, all 25 records within a block are processed in parallel. All the records in a block must be completed before the block of 25 records is available to the next Batch Step scope.**

Answer: D

Explanation:

Reference: <https://docs.mulesoft.com/mule-runtime/4.4/batch-processing-concept>

NEW QUESTION # 140

An organization currently uses a multi-node Mule runtime deployment model within their datacenter, so each Mule runtime hosts several Mule applications. The organization is planning to transition to a deployment model based on Docker containers in a Kubernetes cluster. The organization has already created a standard Docker image containing a Mule runtime and all required dependencies (including a JVM), but excluding the Mule application itself.

What is an expected outcome of this transition to container-based Mule application deployments?

- A. Required change to the URL endpoints used by clients to send requests to the Mule applications
- B. Guaranteed consistency of execution environments across all deployments of a Mule application
- **C. Required redesign of Mule applications to follow microservice architecture principles**
- D. Required migration to the Docker and Kubernetes-based Anypoint Platform - Private Cloud Edition

Answer: C

Explanation:

* Organization can continue using existing load balancer even if backend application changes are there. So option A is ruled out.

* As Mule runtime is within their datacenter, this model is RTF and not PCE. So option C is ruled out.

Mule runtime deployment model within their datacenter, so each Mule runtime hosts several Mule applications -- This means PCE or Hybrid not RTF - Also mentioned in Question is that - Mule runtime is hosting several Mule Applications, so that also rules out RTF and as for hosting multiple Applications it will have Domain project which needs redesign to make it microservice architecture

----- Required redesign of Mule applications to follow microservice architecture principles

NEW QUESTION # 141

A Mule application is deployed to a cluster of two(2) customer-hosted Mule runtimes. Currently the node name Alice is the primary node and node named bob is the secondary node. The mule application has a flow that polls a directory on a file system for new files.

The primary node Alice fails for an hour and then restarted.

After the Alice node completely restarts, from what node are the files polled, and what node is now the primary node for the cluster?

- A. Files are polled from Alice node
Bob is now the primary node
- B. Files are polled from Alice node
Alice is now the primary node
- C. Files are polled from Bob node
Alice is now the primary node
- **D. Files are polled from Bob node
Bob is now the primary node**

Answer: D

Explanation:

* Mule High Availability Clustering provides basic failover capability for Mule. * When the primary Mule Runtime becomes unavailable, for example, because of a fatal JVM or hardware failure or it's taken offline for maintenance, a backup Mule Runtime immediately becomes the primary node and resumes processing where the failed instance left off. * After a system administrator recovers a failed Mule Runtime server and puts it back online, that server automatically becomes the backup node. In this case, Alice, once up, will become backup -----

----- Reference: <https://docs.mulesoft.com/mule-runtime/4.3/hadr-guide> So correct choice is : Files are polled from Bob node Bob is now the primary node

NEW QUESTION # 142

According to the National Institute of Standards and Technology (NIST), which cloud computing deployment model describes a composition of two or more distinct clouds that support data and application portability?

- **A. Hybrid cloud**
- B. Private cloud
- C. Community cloud
- D. Public cloud

Answer: A

Explanation:

According to the National Institute of Standards and Technology (NIST), a hybrid cloud is a cloud computing deployment model that describes a composition of two or more distinct cloud infrastructures (private, community, or public) that remain unique entities but are bound together by standardized or proprietary technology that enables data and application portability. Hybrid clouds allow organizations to leverage the advantages of multiple cloud environments, such as combining the scalability and cost-efficiency of public clouds with the security and control of private clouds. This model facilitates flexibility and dynamic scalability, supporting diverse workloads and business needs while ensuring that sensitive data and applications can remain in a controlled private environment.

References

- * NIST Definition of Cloud Computing
- * Hybrid Cloud Overview and Benefits

NEW QUESTION # 143

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