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>> MuleSoft-Integration-Architect-I Reliable Exam Syllabus <<

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The MuleSoft-Integration-Architect-I exam is highly competitive and acing it is not a piece of cake for majority of the people. It requires a great skill set and deep knowledge MuleSoft-Integration-Architect-I Exam Questions. An aspirant achieving Salesforce Certified MuleSoft Integration Architect I (MuleSoft-Integration-Architect-I) certificate truly reflects his hard work and consistent struggle. These MuleSoft-Integration-Architect-I exam practice test a person's true capacities and passing it requires extensive knowledge of each MuleSoft-Integration-Architect-I topic.

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

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Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 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.
Topic 6	<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 7	<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.
Topic 8	<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.

Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q46-Q51):

NEW QUESTION # 46

A mule application must periodically process a large dataset which varies from 6 GB to 8 GB from a back-end database and write transform data to an FTPS server using a properly configured batch job scope.

The performance requirements of an application are approved to run in the cloud hub 0.2 vCore with 8 GB storage capacity and currency requirements are met.

How can the high rate of records be effectively managed in this application?

- A. Use streaming with a file store repeatable strategy for reading records from the database and batch aggregator with an optimal size
- B. Use streaming with a file store repeatable strategy reading records from the database and batch aggregator without any required configuration
- C. Use streaming with an in-memory repeatable store strategy for reading records from the database and batch aggregator with streaming to write to FTPS
- D. Use streaming with a file storage repeatable strategy for reading records from the database and batch aggregator with streaming to write to FTPS

Answer: D

Explanation:

For handling large datasets in a Mule application, streaming is an effective strategy. Streaming allows the application to process large amounts of data in chunks, reducing memory usage and improving performance.

Using a file storage repeatable strategy for reading records from the database ensures that the data is read in manageable chunks and stored temporarily in files, which can be re-read if necessary, enhancing reliability.

The batch aggregator with streaming to write to an FTPS server ensures that data is written in chunks, aligning with the processing capabilities of the application running in CloudHub with 0.2 vCore and 8 GB storage. This configuration optimizes performance by balancing the load and managing the dataset size effectively, ensuring that the high rate of records can be processed and written to the FTPS server without overwhelming the system.

References:

- * MuleSoft Documentation on Streaming
- * MuleSoft Documentation on Batch Processing

NEW QUESTION # 47

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 cloudbus are migrated properly to Runtime Fabric (RTF) with an assumption that organization is keen on keeping the same deployment strategy.

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

Answer: C

NEW QUESTION # 48

What is not true about Mule Domain Project?

- A. Send events (messages) to other Mule applications using VM queues
- B. Expose multiple services within the Mule domain on the same port
- C. Only available Anypoint Runtime Fabric
- D. This allows Mule applications to share resources

Answer: C

Explanation:

- * Mule Domain Project is ONLY available for customer-hosted Mule runtimes, but not for Anypoint Runtime Fabric
- * Mule domain project is available for Hybrid and Private Cloud (PCE). Rest all provide application isolation and can't support domain project.

What is Mule Domain Project?

- * A Mule Domain Project is implemented to configure the resources that are shared among different projects.

These resources can be used by all the projects associated with this domain. Mule applications can be associated with only one domain, but a domain can be associated with multiple projects. Shared resources allow multiple development teams to work in parallel using the same set of reusable connectors. Defining these connectors as shared resources at the domain level allows the team to:

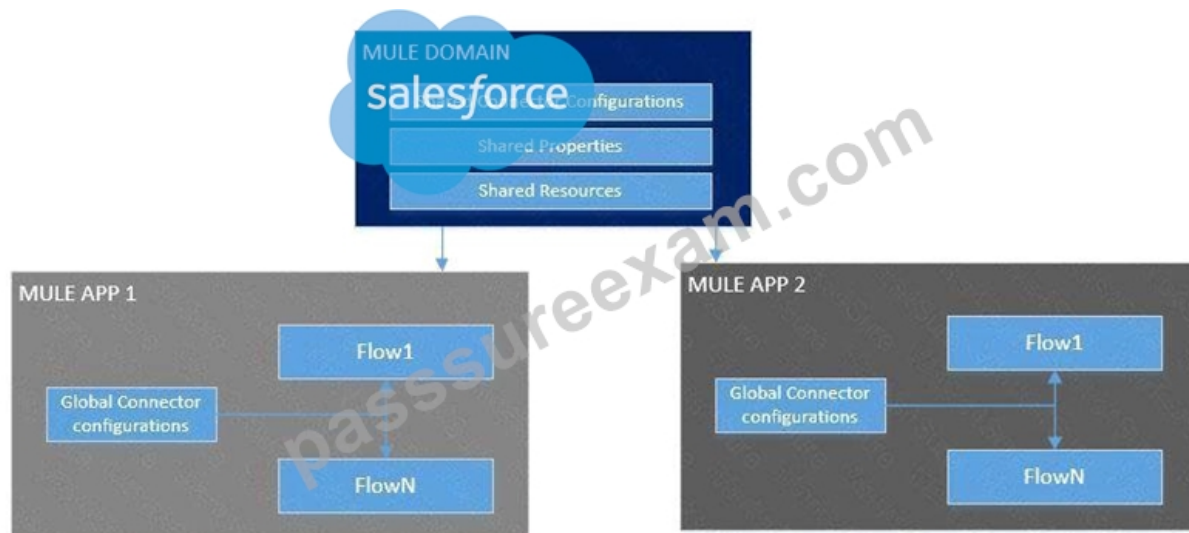
- Expose multiple services within the domain through the same port.
- Share the connection to persistent storage.
- Share services between apps through a well-defined interface.
- Ensure consistency between apps upon any changes because the configuration is only set in one place.

- * Use domains Project to share the same host and port among multiple projects. You can declare the http connector within a domain project and associate the domain project with other projects. Doing this also allows to control thread settings, keystore configurations, time outs for all the requests made within multiple applications. You may think that one can also achieve this by duplicating the http connector configuration across all the applications. But, doing this may pose a nightmare if you have to make a change and redeploy all the applications.

- * If you use connector configuration in the domain and let all the applications use the new domain instead of a default domain, you will maintain only one copy of the http connector configuration. Any changes will require only the domain to be redeployed instead of all the applications.

You can start using domains in only three steps:

- 1) Create a Mule Domain project
- 2) Create the global connector configurations which needs to be shared across the applications inside the Mule Domain project
- 3) Modify the value of domain in mule-deploy.properties file of the applications Graphical user interface Description automatically generated



NEW QUESTION # 49

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.

References:

* MuleSoft Documentation on Scopes: Mule Scopes

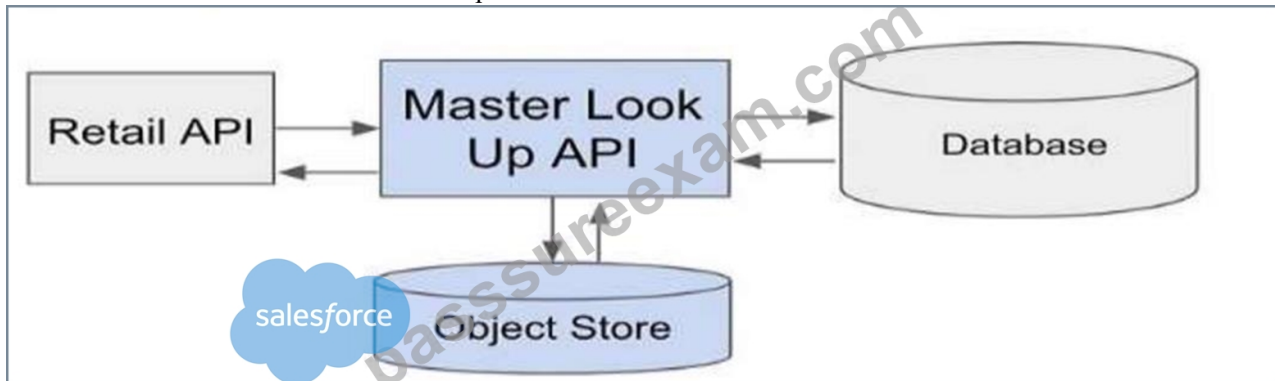
* MuleSoft Best Practices for Performance: Performance Best Practices

NEW QUESTION # 50

A manufacturing company is developing a new set of APIs for its retail business. One of the APIs is a Master Look Up API, which is a System API. The API uses a persistent object-store. This API will be used by almost all other APIs to provide master lookup data.

The Master Look Up API is deployed on two CloudHub workers of 0.1 vCore each because there is a lot of master data to be cached. Most of the master lookup data is stored as a key-value pair. The cache gets refreshed if the key is not found in the cache. During performance testing, it was determined that the Master Look Up API has a high response time due to the latency of database

queries executed to fetch the master lookup data.
What two methods can be used to resolve these performance issues?



Choose 2 answers

- A. Upgrade the vCore size from 0.1 vCore to 0.2 vCore
- B. Implement locking to synchronize access to the Object Store
- C. Implement the HTTP caching policy for all GET endpoints for the Master Look Up API
- D. Implement an HTTP caching policy for all GET endpoints in the Master Look Up API

Answer: C

NEW QUESTION # 51

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