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Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q153-Q158):

NEW QUESTION # 153

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

required configuration

Answer: A

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.

MuleSoft Documentation on Streaming

MuleSoft Documentation on Batch Processing

NEW QUESTION # 154

An integration Mule application is being designed to process orders by submitting them to a backend system for offline processing. Each order will be received by the Mule application through an HTTPS POST and must be acknowledged immediately. Once acknowledged, the order will be submitted to a backend system. Orders that cannot be successfully submitted due to rejections from the backend system will need to be processed manually (outside the backend system).

The Mule application will be deployed to a customer-hosted runtime and is able to use an existing ActiveMQ broker if needed.

The backend system has a track record of unreliability both due to minor network connectivity issues and longer outages.

What idiomatic (used for their intended purposes) combination of Mule application components and ActiveMQ queues are required to ensure automatic submission of orders to the backend system, while minimizing manual order processing?

- A. Until Successful component MuleSoft Object Store ActiveMQ is NOT needed or used
- B. An On Error scope MuleSoft Object Store ActiveMQ Dead Letter Queue for manual processing
- C. An On Error scope Non-persistent VM ActiveMQ Dead Letter Queue for manual processing
- **D. Until Successful component ActiveMQ long retry Queue ActiveMQ Dead Letter Queue for manual processing**

Answer: D

Explanation:

Correct answer is using below set of activities Until Successful component ActiveMQ long retry Queue ActiveMQ Dead Letter Queue for manual processing We will see why this is correct answer but before that lets understand few of the concepts which we need to know. Until Successful Scope The Until Successful scope processes messages through its processors until the entire operation succeeds. Until Successful repeatedly retries to process a message that is attempting to complete an activity such as: - Dispatching to outbound endpoints, for example, when calling a remote web service that may have availability issues. - Executing a component method, for example, when executing on a Spring bean that may depend on unreliable resources. - A sub-flow execution, to keep re-executing several actions until they all succeed, - Any other message processor execution, to allow more complex scenarios. How this will help requirement : Using Until Successful Scope we can retry sending the order to backend systems in case of error to avoid manual processing later. Retry values can be configured in Until Successful Scope Apache ActiveMQ It is an open source message broker written in Java together with a full Java Message Service client ActiveMQ has the ability to deliver messages with delays thanks to its scheduler. This functionality is the base for the broker redelivery plug-in. The redelivery plug-in can intercept dead letter processing and reschedule the failing messages for redelivery. Rather than being delivered to a DLQ, a failing message is scheduled to go to the tail of the original queue and redelivered to a message consumer. How this will help requirement : If backend application is down for a longer duration where Until Successful Scope wont work, then we can make use of ActiveMQ long retry Queue. The redelivery plug-in can intercept dead letter processing and reschedule the failing messages for redelivery. Mule Reference: <https://docs.mulesoft.com/mule-runtime/4.3/migration-core-until-successful>

NEW QUESTION # 155

A mule application is being designed to perform product orchestration. The Mule application needs to join together the responses from an inventory API and a Product Sales History API with the least latency.

To minimize the overall latency. What is the most idiomatic (used for its intended purpose) design to call each API request in the Mule application?

- A. Call each API request in a separate route of a Parallel For Each scope
- **B. Call each API request in a separate route of a Scatter-Gather**

- C. Call each API request in a separate lookup call from Dataweave reduce operator
- D. Call each API request in a separate Async scope

Answer: B

Explanation:

Scatter-Gather sends a request message to multiple targets concurrently. It collects the responses from all routes, and aggregates them into a single message.

Reference: <https://docs.mulesoft.com/mule-runtime/4.3/scatter-gather-concept>

NEW QUESTION # 156

What aspects of a CI/CD pipeline for Mule applications can be automated using MuleSoft-provided Maven plugins?

- A. Compile, package, unit test, validate unit test coverage, deploy
- B. Compile, package, unit test, deploy, create associated API instances in API Manager B Import from API designer, compile, package, unit test, deploy, publish to Anypoint Exchange
- C. Compile, package, unit test, deploy, integration test

Answer: C

NEW QUESTION # 157

Refer to the exhibit.

□ An organization deploys multiple Mule applications to the same customer -hosted Mule runtime. Many of these Mule applications must expose an HTTPS endpoint on the same port using a server-side certificate that rotates often.

What is the most effective way to package the HTTP Listener and package or store the server-side certificate when deploying these Mule applications, so the disruption caused by certificate rotation is minimized?

- A. Package an HTTPS Listener configuration In all Mule APPLICATIONS that need to expose an HTTPS endpoint Package the server-side certificate in a NEW Mule DOMAIN project
- B. Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing it from all Mule applications that need to expose an HTTPS endpoint Package the server-side certificate in ALL Mule APPLICATIONS that need to expose an HTTPS endpoint
- C. Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing it from all Mule applications that need to expose an HTTPS endpoint. Store the server-side certificate in a shared filesystem location in the Mule runtime's classpath, OUTSIDE the Mule DOMAIN or any Mule APPLICATION
- D. Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing It from all Mule applications that need to expose an HTTPS endpoint. Package the server-side certificate in the SAME Mule DOMAIN project Go to Set

Answer: C

Explanation:

In this scenario, both A & C will work, but A is better as it does not require repackage to the domain project at all.

Correct answer is Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing it from all Mule applications that need to expose an HTTPS endpoint. Store the server-side certificate in a shared filesystem location in the Mule runtime's classpath, OUTSIDE the Mule DOMAIN or any Mule APPLICATION.

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 need 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

Use a certificate defined in already deployed Mule domain. Configure the certificate in the domain so that the API proxy HTTPS Listener references it, and then deploy the secure API proxy to the target Runtime Fabric, or on-premises target. (CloudHub is not supported with this approach because it does not support Mule domains.)

NEW QUESTION # 158

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