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The MCIA-Level-1 certification exam is a valuable asset for professionals who want to validate their skills and expertise in the field of integration architecture. MuleSoft Certified Integration Architect - Level 1 certification demonstrates an individual's ability to design and implement MuleSoft solutions that can integrate with various systems and applications. It also validates the individual's understanding of best practices and industry standards related to integration architecture. Passing MCIA-Level-1 Exam is a significant achievement that can enhance an individual's career prospects in the field of integration architecture.

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The MCIA-Level-1 exam consists of 60 multiple-choice questions and has a duration of 120 minutes. It covers a wide range of topics, including MuleSoft architecture, API-led connectivity, data modeling, message processing, and error handling. MCIA-Level-1 Exam is challenging and requires a thorough understanding of MuleSoft's Anypoint Platform, but it is an excellent way for integration architects to demonstrate their skills and expertise in the field.

MuleSoft Certified Integration Architect - Level 1 Sample Questions (Q104-Q109):

NEW QUESTION # 104
Mule application A receives a request Anypoint MQ message REQU with a payload containing a variable-length list of request objects. Application A uses the For Each scope to split the list into individual objects and sends each object as a message to an Anypoint MQ queue.
Service S listens on that queue, processes each message independently of all other messages, and sends a response message to a response queue.
Application A listens on that response queue and must in turn create and publish a response Anypoint MQ message RESP with a payload containing the list of responses sent by service S in the same order as the request objects originally sent in REQU.
Assume successful response messages are returned by service S for all request messages.
What is required so that application A can ensure that the length and order of the list of objects in RESP and REQU match, while at the same time maximizing message throughput?

- A. Perform all communication involving service S synchronously from within the For Each scope, so objects in RESP are in the exact same order as request objects in REQU
- B. Use a Scatter-Gather within the For Each scope to ensure response message order Configure the Scatter-Gather with a persistent object store
- C. Use an Async scope within the For Each scope and collect response messages in a second For Each scope in the order In which they arrive, then send RESP using this list of responses
- D. Keep track of the list length and all object indices in REQU, both in the For Each scope and in all communication involving service Use persistent storage when creating RESP

Answer: D

Explanation:
Correct answer is Perform all communication involving service S synchronously from within the For Each scope, so objects in RESP are in the exact same order as request objects in REQU : Using Anypoint MQ, you can create two types of queues: Standard queue These queues don't guarantee a specific message order. Standard queues are the best fit for applications in which messages must be delivered quickly. FIFO (first in, first out) queue These queues ensure that your messages arrive in order. FIFO queues are the best fit for applications requiring strict message ordering and exactly-once delivery, but in which message delivery speed is of less importance Use of FIFO queue is no where in the option and also it decreased throughput. Similarly persistent object store is not the preferred solution approach when you maximizing message throughput. This rules out one of the options. Scatter Gather does not support ObjectStore. This rules out one of the options. Standard Anypoint MQ queues don't guarantee a specific message order hence using another for each block to collect response wont work as requirement here is to ensure the order. Hence considering all the above factors the feasible approach is Perform all communication involving service S synchronously from within the For Each scope, so objects in RESP are in the exact same order as request objects in REQU

NEW QUESTION # 105
In one of the critical payment related mule application, transaction is being used . As an enhancement to implementation , scatter gather route is introduced which is also the part of transaction group. Scatter gather route has 4 routes.
What will be the behavior of the Mule application in case of error occurs in 4th route of the scatter-gather router and transaction needs to be rolled back?

- A. Only errored route will be rolled back
- B. Scatter Gather router cannot be part of transaction
- C. All routes will be rolled back

Answer: C

Explanation:
* Scatter Gather: When running within a transaction, Scatter Gather does not execute in parallel. This means that the second route is executed after the first one is processed, the third after the second one, etc. In case of error, all routes will be rolled back

NEW QUESTION # 106
Mule applications need to be deployed to CloudHub so they can access on-premises database systems. These systems store sensitive and hence tightly protected data, so are not accessible over the internet.
What network architecture supports this requirement?

- A. An Anypoint VPC with one Dedicated Load Balancer fronting each on-premises database system, plus matching IP whitelisting in the load balancer and firewall rules in the VPC and on-premises network
- B. Static IP addresses for the Mule applications deployed to the CloudHub Shared Worker Cloud, plus matching firewall rules and IP whitelisting in the on-premises network
- C. An Anypoint VPC connected to the on-premises network using an IPsec tunnel or AWS DirectConnect, plus matching firewall rules in the VPC and on-premises network
- D. Relocation of the database systems to a DMZ in the on-premises network, with Mule applications deployed to the CloudHub Shared Worker Cloud connecting only to the DMZ

Answer: B

Explanation:
Explanation/Reference:

NEW QUESTION # 107
A company is planning to migrate its deployment environment from on-premises cluster to a Runtime Fabric (RTF) cluster. It also has a requirement to enable Mule applications deployed to a Mule runtime instance to store and share data across application replicas and restarts.
How can these requirements be met?

- A. Install the object store pod on one of the cluster nodes
- B. Configure Persistent Gateway at the RTF
- C. Configure Persistence Gateway in any of the servers using Mule Object Store
- D. Anypoint object store V2 to share data between replicas in the RTF cluster

Answer: D

Explanation:
When migrating from an on-premises cluster to a Runtime Fabric (RTF) cluster, and needing to enable Mule applications to store and share data across application replicas and restarts, the use of Anypoint Object Store V2 is the most suitable option. Here's why and how to implement it:
* Understanding Object Store V2:
* Object Store V2 is designed to store and retrieve key-value pairs in a scalable and highly available manner. It is particularly useful for sharing state and data between different instances of applications running on RTF.
* Setting Up Anypoint Object Store V2:
* First, ensure that your MuleSoft Anypoint Platform account has access to Object Store V2.
* Configure your Mule application to use Object Store V2 by defining an object store in your Mule configuration file. This can be done using the objectstore element in your Mule flow.
* Configuration Steps:
* Add the Object Store connector to your Mule project.
* Define the object store configuration in your Mule flow as follows:
xml
<objectstore:config name="ObjectStoreV2" doc:name="ObjectStoreV2"/>
* Use the object store in your flows to store and retrieve data:
xml
<objectstore:store config-ref="ObjectStoreV2" key="#[key]" value="#[value]" /> <objectstore:retrieve config-ref="ObjectStoreV2" key="#[key]" target="variableName"/>
* Deploying on RTF:
* Deploy your Mule application to the RTF cluster. The RTF will handle scaling and ensure that the Object Store V2 is available to all instances of your application.

* Benefits:
* Object Store V2 ensures data is shared and persisted across different application replicas and restarts, which meets the requirement of storing and sharing data across application replicas in the RTF cluster.
References:
* MuleSoft Documentation on Object Store V2
* MuleSoft Documentation on Runtime Fabric

NEW QUESTION # 108
As a part of design , Mule application is required call the Google Maps API to perform a distance computation. The application is deployed to cloudhub.
At the minimum what should be configured in the TLS context of the HTTP request configuration to meet these requirements?

- A. Request a private key from Google and create a PKCS12 file with it and add it in keyStore as a part of TLS context
- B. Download the Google public certificate from a browser, generate JKS file from it and add it in key store as a part of TLS context
- C. The configuration is built-in and nothing extra is required for the TLS context
- D. Download the Google public certificate from a browser, generate a JKS file from it and add it in Truststore as part of the TLS context

Answer: D

Explanation:
When configuring the TLS context for an HTTP request to the Google Maps API, the primary goal is to ensure that the Mule application can establish a secure connection. Here's a detailed explanation of the necessary steps:
* Download Google Public Certificate:
* Open a browser and navigate to the Google Maps API URL (e.g., https://maps.googleapis.com).
* Click on the lock icon in the address bar and view the certificate details.
* Export the certificate, usually in a .cer or .crt format.
* Generate JKS File from Certificate:
* Use a tool like keytool (which comes with the Java Development Kit) to import the downloaded certificate into a Java KeyStore (JKS) file.
keytool -importcert -file google.cer -keystore truststore.jks -alias google
* Add JKS File to Truststore:
* In your Mule application, configure the HTTP Request Connector with the generated JKS file as the Truststore in the TLS context.
<tls:trust-store path="path/to/truststore.jks" password="password"/>
* Configure HTTP Request Connector:
* Ensure the HTTP Request Connector references this Truststore configuration.
<http:request-config name="HTTP_Request_Configuration" protocol="HTTPS"> <http:tls-context>
<tls:trust-store path="path/to/truststore.jks" password="password"/> </http:tls-context> </http:request-config> By completing these steps, your Mule application will trust the Google Maps API server's certificate, allowing for secure communication.
References
* MuleSoft Documentation: Configuring TLS
* Google Maps API Documentation

NEW QUESTION # 109
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