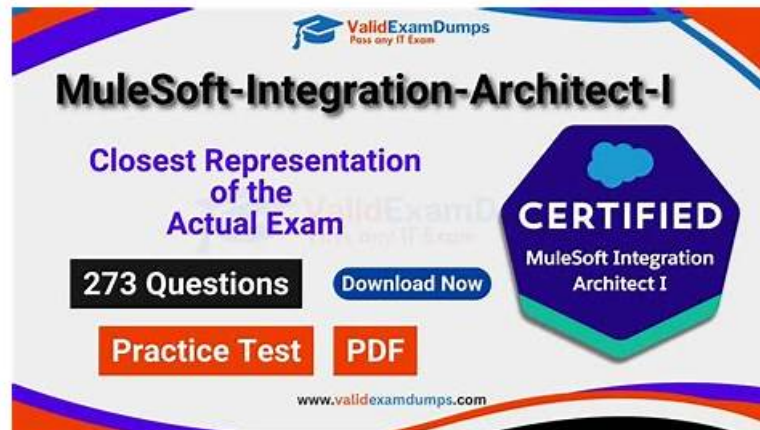


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Salesforce MuleSoft-Integration-Architect-I Exam Syllabus Topics:

Topic	Details
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	- 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 3	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 4	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.
Topic 5	Designing Automated Tests for Mule Applications: This topic covers unit test suites, and scenarios for integration and performance testing.

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Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q30-Q35):

NEW QUESTION # 30

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

Answer: A

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.

MuleSoft Documentation on Object Store V2

MuleSoft Documentation on Runtime Fabric

NEW QUESTION # 31

A manufacturing company is planning to deploy Mule applications to its own Azure Kubernetes Service infrastructure.

The organization wants to make the Mule applications more available and robust by deploying each Mule application to an isolated Mule runtime in a Docker container while managing all the Mule applications from the MuleSoft-hosted control plane.

What is the most idiomatic (used for its intended purpose) choice of runtime plane to meet these organizational requirements?

- A. CloudHub
- B. Anypoint Runtime Fabric
- C. Anypoint Platform Private Cloud Edition

- D. Anypoint Service Mesh

Answer: B

NEW QUESTION # 32

According to the Internet Engineering Task Force (IETF), which supporting protocol does File Transfer Protocol (FTP) use for reliable communication?

- A. B Transmission Control Protocol (TCP)
- B. A Secure Sockets Layer (SSL)
- C. Hypertext Transfer Protocol (HTTP)
- D. Lightweight Directory Access Protocol (LDAP)

Answer: A

NEW QUESTION # 33

Which Exchange asset type represents a complete API specification in RAML or OAS format?

- A. SOAP APIs
- B. API Spec Fragments
- C. Connectors
- D. REST APIs

Answer: D

NEW QUESTION # 34

An airline is architecting an API connectivity project to integrate its flight data into an online aggregation website. The interface must allow for secure communication high-performance and asynchronous message exchange.

What are suitable interface technologies for this integration assuming that Mulesoft fully supports these technologies and that Anypoint connectors exist for these interfaces?

- A. AsyncAPI over HTTPS
AMQP with RabbitMQ JSON/REST over HTTPS
- B. XML over ActiveMQ XML over SFTP XML/REST over HTTPS
- C. CSV over FTP YAM L over TLS JSON over HTTPS
- D. SOAP over HTTPS HOP over TLS gRPC over HTTPS

Answer: A

Explanation:

For integrating flight data into an online aggregation website with secure, high-performance, and asynchronous message exchange, the most suitable interface technologies supported by MuleSoft are:

* AsyncAPI over HTTPS: AsyncAPI is a specification for asynchronous APIs, which is ideal for high- performance, event-driven communication. Using HTTPS ensures secure communication.

* AMQP with RabbitMQ: AMQP (Advanced Message Queuing Protocol) is a protocol for message- oriented middleware. RabbitMQ is a popular message broker that supports AMQP, allowing for reliable and asynchronous message exchange.

* JSON/REST over HTTPS: JSON is a lightweight data-interchange format, and REST (Representational State Transfer) is an architectural style for designing networked applications. Using HTTPS ensures secure communication.

Implementation Steps:

* Define the AsyncAPI specification for the flight data events and set up the infrastructure to handle these events over HTTPS.

* Set up RabbitMQ and configure AMQP for message queuing. Ensure that your MuleSoft application is capable of consuming and producing messages using the RabbitMQ connector.

* Implement RESTful APIs using JSON over HTTPS to expose the flight data securely.

These technologies collectively ensure secure, asynchronous, and high-performance integration.

References:

* MuleSoft Documentation: AsyncAPI

* MuleSoft Documentation: RabbitMQ Connector

* MuleSoft Documentation: JSON and REST APIs

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