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

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none"> 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 4	<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 5	<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 6	<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.

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Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q236-Q241):

NEW QUESTION # 236

An external API frequently invokes an Employees System API to fetch employee data from a MySQL database. The architect must design a caching strategy to query the database only when there is an update to the Employees table or else return a cached response in order to minimize the number of redundant transactions being handled by the database.

- A. Use a Scheduler with a fixed frequency set to every hour to trigger an invalidate cache flow. Use an object-store-caching-strategy and the default expiration interval.
- B. Use an On Table Row operation configured with the Employees table, call invalidate cache, and hardcode the new Employees data to cache. Use an object-store-caching-strategy and set the expiration interval to 1 hour.
- C. Use a Scheduler with a fixed frequency set to every hour, triggering an invalidate cache flow. Use an object-store-caching-strategy and set the expiration interval to 1 hour.
- **D. Use an On Table Row operation configured with the Employees table and call invalidate cache. Use an object-store-caching-strategy and the default expiration interval.**

Answer: D

Explanation:

To design a caching strategy that queries the database only when there is an update to the Employees table, follow these steps:

- * On Table Row Operation: Configure an On Table Row operation to monitor the Employees table for updates.
- * Invalidate Cache: When the On Table Row operation detects an update, trigger the invalidate cache operation to clear the cache.
- * Object Store Caching Strategy: Use an object-store-caching-strategy to store the cached responses.
- * Default Expiration Interval: Use the default expiration interval for the cache, which ensures that cached data is invalidated based on the detection of changes in the Employees table rather than a fixed time interval.

This strategy ensures that the cache is only invalidated when there are actual changes in the Employees table, thereby minimizing redundant transactions and optimizing database performance.

References

- * MuleSoft Documentation on Caching Strategies
- * Best Practices for Database Integration with MuleSoft

NEW QUESTION # 237

A manufacturing company plans 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 choice of runtime plane meets these organizational requirements?

- A. CloudHub 2.0
- **B. Anypoint Runtime Fabric**
- C. Customer-hosted self-provisioned runtime plane
- D. Anypoint Service Mesh

Answer: B

Explanation:

Anypoint Runtime Fabric is the appropriate choice for deploying Mule applications in an isolated Mule runtime within Docker containers on an Azure Kubernetes Service (AKS) infrastructure. This solution provides a containerized and orchestrated environment managed from the MuleSoft-hosted control plane. It enhances the availability, scalability, and robustness of Mule applications by allowing fine-grained control over deployments and providing built-in support for high availability and fault tolerance.

References:

- * Anypoint Runtime Fabric Overview
- * Deploying Mule Applications to Kubernetes

NEW QUESTION # 238

What comparison is true about a CloudHub Dedicated Load Balancer (DLB) vs. the CloudHub Shared Load Balancer (SLB)?

- A. Only the SLB can forward HTTP traffic to the VPC-internal ports of the CloudHub workers
- B. Both a DLB and the SLB implement load balancing by sending HTTP requests to workers with the lowest workloads
- **C. Only a DLB allows the configuration of a custom TLS server certificate**
- D. Both a DLB and the SLB allow the configuration of access control via IP whitelists

Answer: C

Explanation:

- * Shared load balancers don't allow you to configure custom SSL certificates or proxy rules
- * Dedicated Load Balancer are optional but you need to purchase them additionally if needed.
- * TLS is a cryptographic protocol that provides communications security for your Mule app. TLS offers many different ways of exchanging keys for authentication, encrypting data, and guaranteeing message integrity.
- * The CloudHub Shared Load Balancer terminates TLS connections and uses its own server-side certificate.
- * Only a DLB allows the configuration of a custom TLS server certificate
- * DLB enables you to define SSL configurations to provide custom certificates and optionally enforce two-way SSL client authentication.
- * To use a DLB in your environment, you must first create an Anypoint VPC. Because you can associate multiple environments with the same Anypoint VPC, you can use the same dedicated load balancer for your different environments.
- * MuleSoft Reference: <https://docs.mulesoft.com/runtime-manager/dedicated-load-balancer-tutorial> Additional Info on SLB Vs DLB:

Table Description automatically generated

NEW QUESTION # 239

Additional nodes are being added to an existing customer-hosted Mule runtime cluster to improve performance. Mule applications deployed to this cluster are invoked by API clients through a load balancer.

What is also required to carry out this change?

- A. New firewall rules must be configured to accommodate communication between API clients and the new nodes
- **B. External monitoring tools or log aggregators must be configured to recognize the new nodes**
- C. A new load balancer must be provisioned to allow traffic to the new nodes in a round-robin fashion
- D. API implementations using an object store must be adjusted to recognize the new nodes and persist to them

Answer: B

Explanation:

- * Clustering is a group of servers or mule runtime which acts as a single unit.
 - * Mulesoft Enterprise Edition supports scalable clustering to provide high availability for the Mulesoft application.
 - * In simple terms, virtual servers composed of multiple nodes and they communicate and share information through a distributed shared memory grid.
 - * By default, Mulesoft ensures the High availability of applications if clustering implemented.
 - * Let's consider the scenario one of the nodes in cluster crashed or goes down and under maintenance. In such cases, Mulesoft will ensure that requests are processed by other nodes in the cluster. Mulesoft clustering also ensures that the request is load balanced between all the nodes in a cluster.
 - * Clustering is only supported by on-premise Mule runtime and it is not supported in Cloudhub.
- Correct answer is External monitoring tools or log aggregators must be configured to recognize the new nodes
- * Rest of the options are automatically taken care of when a new node is added in cluster.
- Reference:

□

NEW QUESTION # 240

A Mule application is built to support a local transaction for a series of operations on a single database. The mule application has a Scatter-Gather scope that participates in the local transaction.

What is the behavior of the Scatter-Gather when running within this local transaction?

- A. Execution of all routes within Scatter-Gather occurs sequentially Any error that occurs inside Scatter-Gather will be handled by error handler and will not result in roll back
- B. Execution of all routes within Scatter-Gather occurs in parallel Any error that occurs inside Scatter-Gather will be handled by error handler and will not result in roll back
- **C. Execution of all routes within Scatter-Gather occurs in parallel Any error that occurs inside Scatter-Gather will result in a roll back of all the database operations**
- D. Execution of all routes within Scatter-Gather occurs sequentially Any error that occurs inside Scatter-Gather will result in a roll back of all the database operations

Answer: C

NEW QUESTION # 241

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