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

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<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 6	<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 7	<ul style="list-style-type: none"> 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 8	<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 9	<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.

Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q239-Q244):

NEW QUESTION # 239

An organization has chosen Mulesoft for their integration and API platform.

According to the Mulesoft catalyst framework, what would an integration architect do to create achievement goals as part of their business outcomes?

- A. agree upon KPI's and help develop and overall success plan
- B. Measure the impact of the centre for enablement
- C. evangelize API's
- D. build and publish foundational assets

Answer: A

NEW QUESTION # 240

An organization designing a hybrid, load balanced, single cluster production environment. Due to performance service level agreement goals, it is looking into running the Mule applications in an active-active multi node cluster configuration.

What should be considered when running its Mule applications in this type of environment?

- A. All event sources, regardless of time, can be configured as the target source by the primary node in the cluster
- B. An external load balancer is required to distribute incoming requests throughout the cluster nodes
- C. Although the cluster environment is fully installed configured and running, it will not process any requests until an outage condition is detected by the primary node in the cluster.
- D. A Mule application deployed to multiple nodes runs in an isolation from the other nodes in the cluster

Answer: B

Explanation:

In a hybrid, load-balanced, single cluster production environment running Mule applications in an active-active multi-node configuration, several considerations are critical for ensuring performance and reliability.

The key consideration is the use of an external load balancer:

* Active-Active Multi-Node Cluster Configuration:

* An active-active cluster means that all nodes are actively handling traffic, providing high availability and better resource utilization.

* External Load Balancer Requirement:

* Distribution of Requests: An external load balancer is essential to evenly distribute incoming requests across all active nodes in the cluster. This prevents any single node from becoming a bottleneck and ensures balanced load distribution.

* Scalability and Failover: The load balancer provides scalability by allowing more nodes to be added seamlessly. It also handles failover, rerouting traffic to healthy nodes if one node goes down.

* Load Balancer Configuration:

* Setup: Configure the load balancer to include all the nodes of the Mule cluster.

* Health Checks: Implement health checks to monitor the status of each node and ensure traffic is only directed to healthy nodes.

* Session Persistence: If required, enable session persistence (sticky sessions) to ensure that user sessions remain consistent across requests.

* Mule Application Isolation:

* Each Mule application instance runs in isolation but shares the same configuration and state. This isolation ensures that the failure of one node does not impact others.

* Handling Requests:

* In an active-active configuration, all nodes handle incoming requests simultaneously. The load balancer's role is to manage the distribution of these requests efficiently.

* Benefits:

* High Availability: Ensures that the system remains available even if some nodes fail.

* Improved Performance: Balances the load, preventing any single node from being overwhelmed.

* Scalability: Makes it easy to scale horizontally by adding more nodes.

MuleSoft Documentation on Mule Clustering

Best Practices for Load Balancing

NEW QUESTION # 241

According to MuleSoft's IT delivery and operating model, which approach can an organization adopt in order to reduce the frequency of IT project delivery failures?

- A. Stop scope creep by centralizing requirements-gathering
- **B. Decouple central IT projects from the innovation that happens within each line of business**
- C. Prevent technology sprawl by reducing production of API assets
- D. Adopt an enterprise data model

Answer: B

NEW QUESTION # 242

Mule application is deployed to Customer Hosted Runtime. Asynchronous logging was implemented to improved throughput of the system. But it was observed over the period of time that few of the important exception log messages which were used to rollback transactions are not working as expected causing huge loss to the Organization. Organization wants to avoid these losses.

Application also has constraints due to which they cant compromise on throughput much. What is the possible option in this case?

- A. Persistent memory storage should be used in such scenarios
- **B. Mixed configuration of asynchronous or synchronous loggers should be used to log exceptions via synchronous way**
- C. Logging needs to be changed from asynchronous to synchronous
- D. External log appender needs to be used in this case

Answer: B

Explanation:

Correct approach is to use Mixed configuration of asynchronous or synchronous loggers should be used to log exceptions via synchronous way Asynchronous logging poses a performance-reliability trade-off. You may lose some messages if Mule crashes before the logging buffers flush to the disk. In this case, consider that you can have a mixed configuration of asynchronous or synchronous loggers in your app. Best practice is to use asynchronous logging over synchronous with a minimum logging level of WARN for a production application. In some cases, enable INFO logging level when you need to confirm events such as successful

policy installation or to perform troubleshooting. Configure your logging strategy by editing your application's src/main/resources/log4j2.xml file

NEW QUESTION # 243

Refer to the exhibit.

□ The HTTP Listener and the Logger are being handled from which thread pools respectively?

- A. BLOCKING_IO and UBER
- **B. Shared Selector Pool and CPU LITE**
- C. CPU_INTENSIVE and Dedicated Selector pool
- D. UBER and NONBLOCKING

Answer: B

Explanation:

In Mule applications, different components are handled by specific thread pools to optimize performance and resource utilization.

* HTTP Listener: This component handles incoming HTTP requests and is managed by the Shared Selector Pool. The Shared Selector Pool is responsible for handling non-blocking IO operations efficiently.

* Logger: The Logger component is lightweight and does not perform CPU-intensive operations. It is managed by the CPU_LITE thread pool, which is designed for lightweight CPU operations.

This separation ensures that IO-bound operations do not block CPU-bound operations, maintaining optimal performance and responsiveness in the application.

References:

* MuleSoft Threading and Thread Pools

* MuleSoft HTTP Listener Documentation

NEW QUESTION # 244

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