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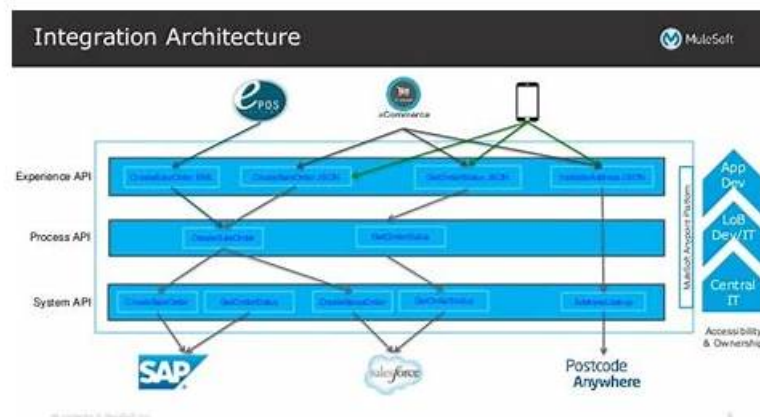
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## Salesforce MuleSoft-Integration-Architect-I Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • 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 2 | • 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 3 | • Designing Automated Tests for Mule Applications: This topic covers unit test suites, and scenarios for integration and performance testing. |
| Topic 4 | • 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 5 | • 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 6 | • Applying DevOps Practices and Operating Integration Solutions: Its sub-topics are related to designing CI<br>• CD pipelines with MuleSoft plugins, automating interactions with Anypoint Platform, designing logging configurations, and identifying Anypoint Monitoring features. |
| Topic 7 | • Designing Integration Solutions to Meet Performance Requirements: This topic covers meeting performance and capacity goals, using streaming features, and processing large message sequences. |

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## Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q14-Q19):

**NEW QUESTION # 14**
An organization uses a four(4) node customer hosted Mule runtime cluster to host one(1) stateless api implementation. The API is accessed over HTTPS through a load balancer that uses round-robin for load distribution. Each node in the cluster has been sized to be able to accept four(4) times the current number of requests.
Two(2) nodes in the cluster experience a power outage and are no longer available. The load balancer directs the outage and blocks the two unavailable the nodes from receiving further HTTP requests.
What performance-related consequence is guaranteed to happen to average, assuming the remaining cluster nodes are fully operational?

- A. 100% increase in the average response time of the API
- B. 50% reduction in the throughput of the API
- C. 100% increase in the number of requests received by each remaining node
- D. 50% increase in the JVM heap memory consumed by each remaining node

**Answer: A**

Explanation:
* "100% increase in the throughput of the API" might look correct, as the number of requests processed per second might increase, but is it guaranteed to increase by 100%? Using 4 nodes will definitely increase throughput of system. But it is cant be precisely said if there would be 100% increase in throughput as it depends on many other factors. Also it is nowhere mentioned in the description that all nodes have same CPU
/memory assigned. The question is about the guaranteed behavior * Increasing number of nodes will have no impact on response time as we are scaling application horizontally and not vertically. Similarly there is no change in JVM heap memory usage. * So Correct answer is 50% reduction in the number of requests being received by each node This is because of the two reasons. 1) API is mentioned as stateless 2) Load Balancer is used

**NEW QUESTION # 15**
A Mule application is being designed to do the following:
Step 1: Read a SalesOrder message from a JMS queue, where each SalesOrder consists of a header and a list of SalesOrderLineItems.
Step 2: Insert the SalesOrder header and each SalesOrderLineItem into different tables in an RDBMS.
Step 3: Insert the SalesOrder header and the sum of the prices of all its SalesOrderLineItems into a table In a different RDBMS.
No SalesOrder message can be lost and the consistency of all SalesOrder-related information in both RDBMSs must be ensured at all times.
What design choice (including choice of transactions) and order of steps addresses these requirements?

- A. 1) Read the JMS message in an XA transaction
    2) In the SAME XA transaction, perform BOTH DB inserts but do NOT acknowledge the JMS message
- B. 1) Read and acknowledge the JMS message (NOT in an XA transaction)
    2) In a NEW XA transaction, perform BOTH DB inserts
- C. 1) Read the JMS message (NOT in an XA transaction)
    2) Perform EACH DB insert in a SEPARATE DB transaction
    3) Acknowledge the JMS message

- D. 1) Read the JMS message (NOT in an XA transaction)
  2) Perform BOTH DB inserts in ONE DB transaction
  3) Acknowledge the JMS message

**Answer: D**

Explanation:
* Option A says "Perform EACH DB insert in a SEPARATE DB transaction". In this case if first DB insert is successful and second one fails then first insert won't be rolled back causing inconsistency. This option is ruled out.
* Option D says Perform BOTH DB inserts in ONE DB transaction.
Rule of thumb is when one or more DB connections are required we must use XA transaction as local transactions support only one resource. So this option is also ruled out.
* Option B acknowledges the before DB processing, so message is removed from the queue. In case of system failure at later point, message can't be retrieved.
* Option C is Valid: Though it says "do not ack JMS message", message will be auto acknowledged at the end of transaction. Here is how we can ensure all components are part of XA transaction: https://docs.mulesoft.com/jms-connector/1.7/jms-transactions
Additional Information about transactions:
* XA Transactions - You can use an XA transaction to group together a series of operations from multiple transactional resources, such as JMS, VM or JDBC resources, into a single, very reliable, global transaction.
* The XA (eXtended Architecture) standard is an X/Open group standard which specifies the interface between a global transaction manager and local transactional resource managers.
The XA protocol defines a 2-phase commit protocol which can be used to more reliably coordinate and sequence a series of "all or nothing" operations across multiple servers, even servers of different types
* Use JMS ack if
- Acknowledgment should occur eventually, perhaps asynchronously
- The performance of the message receipt is paramount
- The message processing is idempotent
- For the choreography portion of the SAGA pattern
* Use JMS transactions
- For all other times in the integration you want to perform an atomic unit of work
- When the unit of work comprises more than the receipt of a single message
- To simply and unify the programming model (begin/commit/rollback)

## NEW QUESTION # 16
Which Salesforce API is invoked to deploy, retrieve, create or delete customization information such as custom object definitions using a Mule Salesforce connector in a Mule application?

- A. SOAP API
- B. Bulk API
- C. REST API
- D. Metadata API

**Answer: C**

## NEW QUESTION # 17
An organization has just developed a Mule application that implements a REST API. The mule application will be deployed to a cluster of customer hosted Mule runtimes.
What additional infrastructure component must the customer provide in order to distribute inbound API requests across the Mule runtimes of the cluster?

- A. An Object Store
- B. An HTTP Load Balancer
- C. A database
- D. A message broker

**Answer: B**

Explanation:
Correct answer is An HTTP Load Balancer.

Key thing to note here is that we are deploying application to customer hosted Mule runtime. This means we will need load balancer to route the requests to different instances of the cluster.
Rest all options are distractors and their requirement depends on project use case.

**NEW QUESTION # 18**
A DevOps team has adequate observability of individual system behavior and performance, but it struggles to track the entire lifecycle of each request across different microservices.
Which additional observability approach should this team consider adopting?

- A. Tracing
- B. Data mining
- C. Analytics
- D. Metrics

**Answer: A**

Explanation:
To track the entire lifecycle of each request across different microservices, the DevOps team should consider adopting tracing. Distributed tracing allows teams to follow a request as it travels through the various microservices, providing visibility into how long each part of the request lifecycle takes and where any bottlenecks or failures occur. Tools like Zipkin, Jaeger, and AWS X-Ray are commonly used for this purpose.
Tracing complements metrics and logging by providing detailed insights into the interactions and dependencies between services.
References:
* Distributed Tracing in Microservices
* What is Distributed Tracing?

**NEW QUESTION # 19**
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