

Salesforce Integration-Architect Overview of the Problems Faced in Preparation Exam Questions



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Salesforce Certified Integration Architect Sample Questions (Q39-Q44):

NEW QUESTION # 39

An integration architect has been tasked with integrating Salesforce with an on-premises system. Due to some established policies, this system must remain on-premises.

What should the integration architect use to build a solution for this requirement?

- A. Use Salesforce Connect If the database supports Open Data Protocol (OData).
- B. Use Heroku Connect if the data is hosted in Heroku.
- C. Use Salesforce Connect if the database supports Open Database Connectivity (ODBC).

Answer: A

Explanation:

Use Salesforce Connect if the database supports Open Data Protocol (OData). Salesforce Connect allows you to integrate external data sources with Salesforce without copying the data into Salesforce. OData is a standard protocol for accessing data from different sources. Use Salesforce Connect if the database supports Open Database Connectivity (ODBC) is incorrect because ODBC is not supported by Salesforce Connect.

Use Heroku Connect if the data is hosted in Heroku is incorrect because Heroku Connect is used to synchronize data between Salesforce and a Heroku Postgres database, not an on-premises system.

NEW QUESTION # 40

An integration architect has built a Salesforce application that integrates multiple systems and keeps them synchronized via Platform Events. What is taking place if events are only being published?

- A. The platform events are published after the Apex transaction completes.
- B. The platform events are being published from Apex.
- C. The platform events are published immediately before the Apex transaction completes.

Answer: A

Explanation:

The timing of Platform Event publishing is a critical detail for an Integration Architect, as it affects data consistency and transaction integrity. In Salesforce, the default and most common behavior for publishing Platform Events from Apex is "Publish After Commit." When an architect chooses the "Publish After Commit" setting (defined at the event level), the events are held in a buffer and are only released to the event bus after the Apex transaction completes successfully. This ensures that if the database transaction fails and rolls back, the event—which might trigger external actions— is never sent. This prevents "ghost" events where an external system is told to process data that was never actually saved to the Salesforce database.

The question implies a standard scenario where events are being "published" into the bus. In this state, the events have passed the transaction boundary. If the events were only "being published from Apex" (Option C), it doesn't describe the state of the delivery or the transaction. Option B is technically incorrect for standard event publishing logic, as Salesforce explicitly separates the event bus from the database commit to maintain atomicity.

Understanding this "After Commit" behavior is vital when designing synchronization patterns. If the architect requires the event to be sent regardless of whether the transaction succeeds (e.g., for logging a failure), they would need to configure the event as "Publish Immediately." However, in a standard synchronization use case where events are "only being published," it signifies that the source transaction has finalized, and the messages are now available for subscribers (like middleware or other Salesforce orgs) to consume.

NEW QUESTION # 41

A new Salesforce program has the following high-level abstract requirement: Business processes executed on Salesforce require data updates between their internal systems and Salesforce. Which relevant detail should an integration architect seek to specifically solve for integration architecture needs of the program?

- A. Core functional and non-functional requirements for User Experience design, Encryption needs, Community, and license choices
- B. Timing aspects, real-time/near real-time (synchronous or asynchronous), batch and update frequency
- C. Integration skills, SME availability, and Program Governance details

Answer: B

Explanation:

In the discovery and translation phase of a Salesforce project, an Integration Architect must move beyond high-level business goals to define the technical "DNA" of the data exchange. While organizational readiness and user experience are vital to project success, they do not dictate the architectural patterns required to move data between systems.

The most critical details for designing an integration architecture are the Timing and Volume requirements.

Identifying whether a business process is Synchronous or Asynchronous is the primary decision point. For example, if a Salesforce user requires an immediate validation from an external system before they can save a record, a synchronous "Request-Reply" pattern using an Apex Callout is required. If the data update can happen in the background without blocking the user, an asynchronous "Fire-and-Forget" pattern is preferred to improve system performance and user experience.

Furthermore, understanding the Update Frequency (e.g., real-time, hourly, or nightly) and the Data Volume (e.g., 100 records vs. 1 million records) allows the architect to select the appropriate Salesforce API. High-volume, low-frequency updates are best handled by the Bulk API to minimize API limit consumption, while low-volume, high-frequency updates are better suited for the REST API or Streaming API. By specifically seeking out these timing and frequency aspects, the architect ensures that the chosen solution is scalable, stays within platform governor limits, and meets the business's Service Level Agreements (SLAs). Without these

details, the architect risks designing a solution that is either too slow for the business needs or too taxing on system resources.

NEW QUESTION # 42

An architect recommended using Apex code to make callouts to an external system to process insurance quote. What should the integration architect consider to make sure this is the right option for the integration?

- A. The limit of pending operations in the same transaction.
- B. The maximum callouts in a single Apex transaction.
- C. The limit on long-running requests (total execution time).
- D. The maximum number of parallel Apex callouts in a single continuation.

Answer: A

NEW QUESTION # 43

An enterprise architect has requested the Salesforce integration architect to review the following (see diagram and description) and provide recommendations after carefully considering all constraints of the enterprise systems and Salesforce Platform limits.

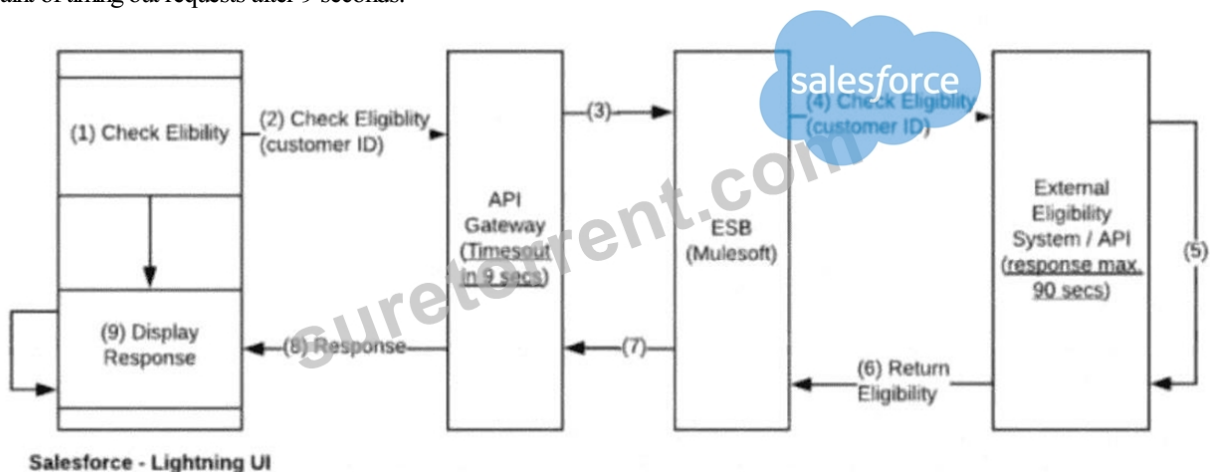
* About 3,000 phone sales agents use a Salesforce Lightning user interface (UI) concurrently to check eligibility of a customer for a qualifying offer.

* There are multiple eligibility systems that provide this service and are hosted externally.

* However, their current response times could take up to 90 seconds to process and return (there are discussions to reduce the response times in the future, but no commitments are made).

* These eligibility systems can be accessed through APIs orchestrated via ESB (MuleSoft).

* All requests from Salesforce will have to traverse through the customer's API Gateway layer, and the API Gateway imposes a constraint of timing out requests after 9 seconds.



Which recommendation should the integration architect make?

- A. Create a platform event in Salesforce via Remote Call-In and use the empAPI in the Lightning UI to serve 3,000 concurrent users when responses are received by Mule.
- B. Use Continuation callouts to make the eligibility check request from Salesforce Lightning UI at page load.
- C. Recommend synchronous Apex callouts from Lightning UI to External Systems via Mule and implement polling on an API Gateway timeout.

Answer: A

Explanation:

The primary architectural challenge in this scenario is the massive discrepancy between the backend response time (up to 90 seconds) and the API Gateway timeout constraint (9 seconds). In any synchronous integration pattern, the connection must remain open across the entire path; if the API Gateway closes the connection at 9 seconds, a standard Salesforce "Request-Reply" callout will fail long before the 90-second eligibility check is complete.

Option A is non-viable because synchronous polling at a high scale (3,000 concurrent users) would likely hit Salesforce concurrent request limits and place an immense, unnecessary load on the API Gateway. Option B, using Continuation, is designed to handle long-running callouts (up to 120 seconds) without blocking Salesforce threads, but it still requires the external connection path to remain open. It does not bypass the 9-second timeout imposed by the customer's API Gateway.

The optimal recommendation is Option C, which implements an Asynchronous Request-Reply pattern using Platform Events and the

empAPI.12

* Request Phase: The Salesforce UI initiates the request. To bypass the 9-second gateway timeout, the ESB (MuleSoft) should be configured to receive the request and immediately return an acknowledgment (e.g., 4 HTTP 202 Accepted). This allows the initial Salesforce callout to complete successfully within the 9-second window.⁵⁶

* Processing Phase: MuleSoft then proceeds with the long-running (up to 90 seconds) call to the external eligibility systems.⁷⁸

* Callback Phase (Remote Call-In)⁹: Once the eligibility result is received, MuleSoft calls back into Salesforce via the REST API to publish a Platform Event containing the result.¹⁰

* UI Update (empAPI1PI): The 3,000 sales agents' browsers, having subscribed to the event channel using the empAPI (Lightning's built-in library for streaming events), receive the notification in real-time. The UI then updates to display the "Display Response" step.

This event-driven architecture effectively "insulates" Salesforce and the API Gateway from the backend's high latency, ensures scalability for 3,000 concurrent users, and provides a seamless, real-time user experience without hitting governor limits or timeout constraints.

NEW QUESTION # 44

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