

# Certified Integration Architect Designer Practice Exam (Sample)

## Study Guide



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## **Questions**

- 1. What stages should the Architect consider to reduce security concerns when integrating Salesforce with an accounting system?**
  - A. Terminate SSL at a reverse proxy in the DMZ with mutual SSL**
  - B. Enable WS-security for web services between Salesforce and the accounting system**
  - C. Whitelist the Salesforce IP range on the firewall**
  - D. Utilize an Enterprise Service Bus for credential management**
- 2. What implementation ensures Salesforce users can create, read, update, and delete data sourced from an external data warehouse?**
  - A. Utilize Lightning Connect with custom development**
  - B. Use an embedded third-party JavaScript library**
  - C. Implement a canvas application for external access**
  - D. Employ AppExchange tools for direct data manipulation**
- 3. What tool should an architect recommend for migrating approximately 10 million contact records into a new Salesforce environment?**
  - A. Salesforce Data Loader**
  - B. Data Import Wizard**
  - C. Excel connector**
  - D. Salesforce Workbench**
- 4. What risk may arise from using a batch size that is too small during a Bulk API integration?**
  - A. Possibility of exceeding daily limit for number of batches**
  - B. Possibility of very long bulk job execution times**
  - C. Possibility of failures due to record-locking errors**
  - D. Possibility of exceeding concurrent batches limit**
- 5. What does API stand for in integration architecture?**
  - A. Application Programming Interface**
  - B. Application Performance Indicator**
  - C. Advanced Protocol Integration**
  - D. Applied Process Interfacing**

- 6. What is the likely cause of complaints from users during User Acceptance Testing in a Developer sandbox?**
- A. A. Users should be testing in a Partial Sandbox to replicate production functionality.**
  - B. B. Users should be testing in a Full Sandbox to mimic production performance.**
  - C. C. Users should be testing with data loaded into the Developer sandbox to replicate production scenarios.**
  - D. D. Users should be testing in a Developer Pro sandbox to mirror production functionality.**
- 7. What is a potential challenge when using middleware for integration?**
- A. Increased complexity**
  - B. Real-time data access**
  - C. Reduced system latency**
  - D. Enhanced user experience**
- 8. Which integration strategy is best suited for large-scale enterprise applications?**
- A. Point-to-point integration**
  - B. Batch processing**
  - C. Enterprise Service Bus (ESB)**
  - D. Direct database access**
- 9. Which benefit of Canvas should be considered when exposing external systems from within Salesforce?**
- A. Authorization information via signed Request**
  - B. The canvas SDK can mimic Salesforce UI**
  - C. Data sent asynchronously to an external system**
  - D. Dynamic change of canvas endpoint URLs**
- 10. Which of the following terms describes the process of mapping data from one system to another during integration?**
- A. Data routing**
  - B. Data transformation**
  - C. Data storage**
  - D. Data synchronization**

## **Answers**

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- 1. B**
- 2. C**
- 3. A**
- 4. B**
- 5. A**
- 6. B**
- 7. A**
- 8. C**
- 9. A**
- 10. B**

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## **Explanations**

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**1. What stages should the Architect consider to reduce security concerns when integrating Salesforce with an accounting system?**

**A. Terminate SSL at a reverse proxy in the DMZ with mutual SSL**

**B. Enable WS-security for web services between Salesforce and the accounting system**

**C. Whitelist the Salesforce IP range on the firewall**

**D. Utilize an Enterprise Service Bus for credential management**

Enabling WS-security for web services between Salesforce and the accounting system is a critical measure for securing the data during integration. WS-security provides a robust framework for securing SOAP-based web services by ensuring message-level security through various mechanisms such as message integrity, confidentiality, and authentication. By implementing WS-security, the architect ensures that the data exchanged between Salesforce and the accounting system is protected against tampering and eavesdropping. This is vital in financial contexts, such as accounting systems, where data integrity and confidentiality are paramount. WS-security employs security tokens and can leverage encryption to safeguard sensitive information transmitted in the SOAP messages, thereby enhancing the security posture of the integration. Proper implementation of WS-security not only provides end-to-end security but also aligns with compliance requirements that organizations often have regarding sensitive financial data. This makes it an essential consideration for architects seeking to mitigate security risks in integration scenarios.

**2. What implementation ensures Salesforce users can create, read, update, and delete data sourced from an external data warehouse?**

**A. Utilize Lightning Connect with custom development**

**B. Use an embedded third-party JavaScript library**

**C. Implement a canvas application for external access**

**D. Employ AppExchange tools for direct data manipulation**

The implementation that ensures Salesforce users can create, read, update, and delete data sourced from an external data warehouse is effectively achieved through the use of a canvas application for external access. Canvas applications allow for a seamless integration of external data and functionalities within the Salesforce interface. By embedding a canvas app, organizations can provide users with the ability to interact directly with data residing in an external data warehouse as if it were part of Salesforce itself. This integration allows for full CRUD (Create, Read, Update, Delete) operations on the data, enabling users to work efficiently while utilizing the familiar Salesforce environment. This approach not only enhances user experience but also leverages the robust capabilities of Salesforce in conjunction with external systems, ensuring that users have access to the most current and relevant data from the external source without the need for complex data migrations or duplications. In contrast, the other options may not fully address the requirement for extensive data manipulation directly within the Salesforce ecosystem. For instance, utilizing Lightning Connect can enhance data connectivity but might require additional custom development to achieve full CRUD capabilities. Using a third-party JavaScript library could introduce challenges with interoperability and maintaining secure connections. Employing AppExchange tools may provide solutions for specific tasks, but generally, these tools are not designed for

**3. What tool should an architect recommend for migrating approximately 10 million contact records into a new Salesforce environment?**

**A. Salesforce Data Loader**

**B. Data Import Wizard**

**C. Excel connector**

**D. Salesforce Workbench**

The recommended tool for migrating approximately 10 million contact records into a new Salesforce environment is Salesforce Data Loader. This application is particularly suited for handling large volumes of data, making it an optimal choice for migrating extensive datasets like contact records. Data Loader is capable of processing thousands of records in batch, which is essential when dealing with such a significant number of entries. Moreover, it supports various operations such as Insert, Update, Upsert, and Delete, providing flexibility in how data is managed during migration. The tool can also handle complex data transformations and allows for the loading of both standard and custom objects, which is crucial in a diverse data environment. In contrast, while the Data Import Wizard can handle smaller data imports and is user-friendly, it is more limited in the number of records it can process at a time compared to Data Loader. The Excel connector, while useful for real-time data manipulation, is not designed specifically for bulk data migration and would struggle with the volume in question. Salesforce Workbench is a powerful tool for interacting with Salesforce data through API calls, but it requires a deeper understanding of how to structure queries and manage data load limits effectively, making it less straightforward for mass data migration tasks.

**4. What risk may arise from using a batch size that is too small during a Bulk API integration?**

**A. Possibility of exceeding daily limit for number of batches**

**B. Possibility of very long bulk job execution times**

**C. Possibility of failures due to record-locking errors**

**D. Possibility of exceeding concurrent batches limit**

Using a batch size that is too small during a Bulk API integration can lead to very long bulk job execution times. This is primarily because each batch has its own overhead in terms of communication and processing. When the batch size is reduced excessively, the system ends up making multiple calls to process a relatively small amount of data, which accumulates significant total execution time. As each batch requires its own transaction processing and can involve setup and teardown overhead, a smaller batch size translates to more transactions that need to be managed. This increased number of calls can therefore lead to latency and inefficiencies, making the overall execution of the bulk job take much longer than if larger batches were used. A balancing act is essential when determining batch size. While too large a batch size can risk hitting system limits, too small a size primarily results in inefficiencies and prolonged processing times.

## 5. What does API stand for in integration architecture?

**A. Application Programming Interface**

**B. Application Performance Indicator**

**C. Advanced Protocol Integration**

**D. Applied Process Interfacing**

API stands for Application Programming Interface in the context of integration architecture. This term refers to a set of rules and protocols for building and interacting with software applications. APIs are essential in integration scenarios as they enable different software systems to communicate with each other, exchange data, and invoke services. In integration architecture, using APIs allows for seamless interconnectivity between various applications and services, facilitating the implementation of complex workflows and data exchanges. APIs define how requests for information or action are made, as well as how responses are returned, which is crucial for interoperability in today's diverse ecosystem of applications and services. The other options do not accurately represent what API stands for in this context. Application Performance Indicator refers to metrics that help assess the performance of an application, Advanced Protocol Integration and Applied Process Interfacing are not widely recognized terms in the field, and they do not capture the essence of what an API is or its functional role in integration architecture. Understanding this foundational concept of APIs is key for anyone looking to succeed in integration architecture.

## 6. What is the likely cause of complaints from users during User Acceptance Testing in a Developer sandbox?

**A. A. Users should be testing in a Partial Sandbox to replicate production functionality.**

**B. B. Users should be testing in a Full Sandbox to mimic production performance.**

**C. C. Users should be testing with data loaded into the Developer sandbox to replicate production scenarios.**

**D. D. Users should be testing in a Developer Pro sandbox to mirror production functionality.**

User Acceptance Testing (UAT) is a critical phase where end-users validate the functionality of the system against their requirements and established criteria. In the context of this question, the correct choice focuses on the importance of matching the testing environment to the production environment as closely as possible. In User Acceptance Testing, users expect to evaluate the system under conditions that are as similar as possible to those they will experience when the system goes live. A Full Sandbox is designed to replicate the production environment accurately—this includes all configurations, data, and performance characteristics. By using a Full Sandbox, users can effectively test the system's functionality in a scenario that closely mirrors the actual conditions, ensuring that any issues are caught before deployment. This alignment helps identify any gaps in the system's performance or functionality that could affect end-user experience. Testing in a Full Sandbox helps reduce the likelihood of complaints arising from discrepancy in data, functionality, or performance because the environment is as comprehensive as possible. This is essential for validating complex integrations, data flows, and ensuring that the overall user experience aligns with expectations from a live environment. In contrast, the other sandbox types, such as Partial Sandboxes or Developer Sandboxes, do not provide the same level of fidelity to production. These environments may

**7. What is a potential challenge when using middleware for integration?**

- A. Increased complexity**
- B. Real-time data access**
- C. Reduced system latency**
- D. Enhanced user experience**

Using middleware for integration does indeed introduce the potential challenge of increased complexity. Middleware serves as a bridge between different systems or applications, allowing for communication and data exchange. However, this additional layer can complicate system architecture and make it more difficult to manage. With middleware, you may encounter various intricacies such as increased configuration requirements, dependency management, and the need for specialized knowledge to troubleshoot issues that arise within the middleware framework. As the number of integrated systems increases, so does the complexity of ensuring effective communication and data consistency across all platforms. In some cases, integrating multiple systems through middleware can lead to a labyrinth of connections and protocols that can be challenging to maintain. Organizations may need to invest more time and resources into monitoring and managing these integrations, which can potentially lead to higher operational costs and a longer time to resolve issues. While the other options present various benefits or characteristics associated with integration, they do not reflect the inherent challenges posed by middleware. For example, real-time data access, reduced system latency, and enhanced user experience are positive outcomes that organizations seek from integration solutions, but they do not address the complexity that middleware can introduce into the overall system architecture.

**8. Which integration strategy is best suited for large-scale enterprise applications?**

- A. Point-to-point integration**
- B. Batch processing**
- C. Enterprise Service Bus (ESB)**
- D. Direct database access**

The integration strategy best suited for large-scale enterprise applications is the Enterprise Service Bus (ESB). This approach provides a central framework for integrating various applications and services within an organization's IT environment. An ESB enables communication between different systems in a decoupled manner, allowing for flexible and scalable interactions. Using an ESB, enterprises can effectively manage complex integration scenarios by promoting reusability of services and components. This ease of connectivity and ability to handle a variety of data formats, protocols, and service patterns make it an optimal choice for large-scale systems. Additionally, the ESB architecture supports real-time data exchange and orchestration of complex workflows, which are often required in larger enterprises with diverse software solutions. The ability of an ESB to facilitate asynchronous communication patterns and maintain a message routing and transformation functionality further enhances its suitability for large-scale integrations. This not only reduces the dependency on point-to-point connections, which can become unwieldy and difficult to manage as the number of applications grows, but also increases resilience and promotes a more agile and responsive enterprise architecture. In contrast, point-to-point integration can lead to a tangled web of direct connections that are challenging to maintain and scale; batch processing, while useful for managing large amounts of data at specific intervals

**9. Which benefit of Canvas should be considered when exposing external systems from within Salesforce?**

**A. Authorization information via signed Request**

**B. The canvas SDK can mimic Salesforce UI**

**C. Data sent asynchronously to an external system**

**D. Dynamic change of canvas endpoint URLs**

The choice emphasizing authorization information via signed Request highlights a crucial aspect of security when interacting with external systems from Salesforce. When the Canvas app is utilized to expose external systems, it ensures that any requests transmitted from Salesforce are accompanied by a signed request that validates the identity of the user and the integrity of the request. This feature is essential for maintaining security and trust, as it prevents unauthorized access and ensures that only legitimate requests are processed by the external system. This benefit aligns well with the nature of data exchange between Salesforce and third-party applications, as it ensures that sensitive user authorization data is handled securely. In contexts where sensitive customer or organizational data is at stake, having robust authorization measures is of paramount importance to protect against data breaches and to safeguard the integrity of user sessions. The other options, while they reference useful capabilities of the Canvas framework, do not emphasize the security aspect to the same extent. The capability to mimic Salesforce UI provides a consistent user experience, but it does not inherently address security concerns. The ability to send data asynchronously and the dynamic change of canvas endpoint URLs are features that enhance functionality but still hinge on having secure authorization processes in place. Thus, the focus on authorization via signed requests is critical when exposing external systems in Salesforce.

**10. Which of the following terms describes the process of mapping data from one system to another during integration?**

**A. Data routing**

**B. Data transformation**

**C. Data storage**

**D. Data synchronization**

The process of mapping data from one system to another during integration is best described as data transformation. Data transformation involves converting data into a format that is understandable and usable by the destination system. This process may include changing data types, applying formats, or performing calculations to ensure that the data aligns correctly with the requirements of the target system. Effective data transformation is crucial in integration scenarios, as it ensures that the data retains its meaning and context while being transferred from one application to another. This means that even though the source system and target system may have different data structures or formats, the integral information can still be effectively utilized in the new environment. Other options like data routing, data storage, and data synchronization relate to different aspects of data management. Data routing refers to directing data to the appropriate destination, data storage deals with saving data in a database or storage system, and data synchronization is about ensuring that multiple systems are up-to-date with consistent information. None of these processes inherently focus on the actual change in data format or structure that occurs during integration, which is why data transformation is the correct term for this scenario.