

# Salesforce

## Exam Questions Integration-Architecture-Designer

Salesforce Certified Integration Architecture Designer (SP19)



#### NEW QUESTION 1

Universal containers(UC) leverages the standard opportunity and opportunity product objects to manage their orders in Salesforce. When a deal is closed, all opportunity information, including products and billing contacts, must be send to their ERP application for order fulfillment. As UC has an "express shipping" guarantee, leadership would like order information sent to ERP as quickly as possible after the deal is closed?  
How should an Architect fulfill this requirement?

- A. Write a nightly batch job to send customer information to ERP.
- B. Write a visualforce page to send order information to ERP.
- C. Write an opportunity trigger to send order information to ERP.
- D. Write an outbound message to send order information to ER

**Answer: C**

#### NEW QUESTION 2

As part of their customer setup process. Universal containers requires that any address put into Salesforce be validated by the US Postal Service. The customer must provide their address while they are on the phone with the Universal Containers representative.  
What two solutions should a Technical Architect recommend to fulfill this requirement? Choose 2 answers

- A. Implement a VisualForce page that validates entered addresses against an API.
- B. Write a trigger with an @future callout that validates addresses against an API.
- C. Build a custom Address object and a trigger that will validate the address against the object.
- D. Leverage an Appexchange application to validate addresses entere

**Answer: AD**

#### NEW QUESTION 3

What are three capabilities of Salesforce Lightning Connect? Choose 3 answers.

- A. Write to OData - Compliant data sources without APEX.
- B. Read from OData - Compliant data sources without APEX.
- C. Associate external object records to Salesforce Account records.
- D. Write triggers and workflows on external objects.
- E. Write SOQL queries on external object.

**Answer: BCE**

#### NEW QUESTION 4

Universal containers utilizes the REST API to update the multiple Salesforce objects in real time based upon changes from their ERP system. They recently started encountering API Limits and have consulted the Integration Architect on possible solutions.  
What two possible strategies should the architect consider? Choose 2 answers

- A. Migrate the integration to the partner WSDL to support 200 DML operations in a single API call.
- B. Migrate the integration to the Bulk API which does not count towards the API limits.
- C. Utilize the REST API batch URI to consolidate 100 DML operations into single API call.
- D. Utilize workflow outbound messaging which does not count towards the API limits.

**Answer: BC**

#### NEW QUESTION 5

Which mechanism should an Integration Architect recommend to make a secure, authenticated connection to a remote system that results in the remote system trusting Salesforce?

- A. Encrypt the Payload with a shared key.
- B. Use a pre-shared key in a query parameter.
- C. Implement two way (or mutual) SSL certificates.
- D. Utilize CA - signed certificates on the hos

**Answer: D**

#### NEW QUESTION 6

Universal Containers would like to display data from an external system inside of Salesforce, and has chosen not to enable lightning Experience. They do not need the data for any other purposes within Salesforce.  
Which approach should an Integration Architect recommend that matches the Salesforce UI? Choose 2 answers

- A. An iFrame embedding a custom .Net application that displays data from the other systems.
- B. A custom visualforce page with a controller thats calls-out to the other systems.
- C. A custom Visualforce page with client- side calls out to the other systems.
- D. A middleware orchestration to continuously persist data from other systems into Salesforc

**Answer: AB**

#### NEW QUESTION 7

When making an Apex callout, what approach should an Integration Architect recommend for securely transporting sensitive data from Salesforce over an unsecure network connection?

- A. Base64 encode the data before performing the call out from Apex.
- B. Encrypt the data with a shared key before performing the Apex callout.
- C. Use platform Encryption to secure the data before transporting.
- D. Salesforce automatically secures all data transmissions to external system

**Answer:** A

#### NEW QUESTION 8

Universal Containers would like to integrate Salesforce to their Accounting system. Salesforce must notify the accounting system for every new account that has been created. The security team will not allow Salesforce to integrate directly to the accounting system due to potential security issues. Which three stages should the Architect consider to reduce the security concerns for this Integration use case?

Choose 3 answers

- A. Terminate the SSL connection at a reverse proxy in the DMZ which establishes trust in the connection using mutual SSL.
- B. Enable WS-security for the web services made between Salesforce and the accounting system.
- C. Whitelist the Salesforce IP range on the firewall to ensure only Salesforce- originated traffic can penetrate the network.
- D. Utilize an Enterprise Service Bus to ensure Accounting system credentials are not stores within Salesforce.
- E. Enable platform encryption in the Salesforce org to ensure network communication to the Accounting system is encrypted.

**Answer:** BDE

#### NEW QUESTION 9

Universal containers built an integration using the Bulk API to load records from a legacy system into Salesforce, Parallel option with batch size 1000 was used However, the batches often fail due to " Max CPU time exceeded" errors which could be resolved with a Similar batch size.

What are two risks involved with batch sizes that are too small? Choose 2 answers

- A. Possibility of hitting the 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 hitting the "Too many concurrent batches" limit

**Answer:** BC

#### NEW QUESTION 10

Universal Containers is using the enterprise WSDL to integrate their financial system to salesforce, while reading y=the release notes for the upcoming salesforce release the architect discovers a new object will be added to the salesforce data model that would be beneficial for the financial system integration.

What two actions should the architect take to ensure the new object will be available to the financial system integration?

Choose 2 answers

- A. Download the latest enterprise WSDL that contains the new object definition to generate Web service stubs for the new Salesforce object.
- B. Download the latest partner WSDL that contains the new object definition to generate web services stubs for the new salesforce object
- C. Migrate to the partner WSDL to generate a generic sObject service stub that can be leveraged for existing and future Salesforce objects
- D. igrate to the metadata API to download the new salesforce sObject definition into the financial system integration.

**Answer:** AD

#### NEW QUESTION 10

What are two considerations to make when performing SOAP callouts from within Apex? Choose 2 answers

- A. SOAP callouts consume API limits.
- B. WSDL2Apex supports RPC-style SOAP callouts.
- C. WSDL2Apex can be used to generate stub code.
- D. SOAP callouts cannot occur after any DML statement

**Answer:** CD

#### NEW QUESTION 15

Universal Containers has two integrations to Salesforce; System A requires read-only access to all Opportunity data while System B requires read-write access to all Accounts.

Which approach ensures compliance with the principal of least privilege?

- A. Utilize a single "Integration User" with the "Modify All data" profile setting enabled so that all integrations always have access to all data.
- B. Utilize separate credentials and profiles for each integration, one having "view All" to ties and the other having "Modify All" to Accounts.
- C. Use a single "Integration User" with profile settings restricted to "view All" for opportunity and "Modify All" for Accounts.
- D. Utilize separate credentials for each system with both credentials having the "modify all data" permission on the profile.

**Answer:** C

#### NEW QUESTION 20

Universal Containers has chosen Salesforce Wave as their Analytics Platform. There is a requirement to join data from multiple systems(including Salesforce) to be displayed in a single Wave Lens. What should the Architect recommend?

- A. Use an ETL tool to load the data into Salesforce, upserts to ensure that the data is properly joined.
- B. Use Data flow to load Salesforce data, and an ETL tool to load other data sets.
- C. Use an ETL tool to join multiple sources and load them into a single data set.
- D. Use data flow to load Salesforce data, and lightning connect to access the other data sets in real time.

**Answer:** C

#### NEW QUESTION 21

What are two scenarios that utilize the chatter REST API? Choose 2 answers

- A. When integrating chatter into custom mobile apps.
- B. When migrating Opportunity data.
- C. When uploading large files.
- D. When posting status updates to social medi

**Answer:** AD

#### NEW QUESTION 22

Universal Containers has a requirement to query all Account records within Salesforce that were updated in the last 24 hours and download those Accounts to their data warehouse on a nightly basis. They expect the volume of records to be between 500-1500 records per day.

What three techniques should an Architect consider ? Choose 3 answers

- A. Leverage a time-based workflow action to trigger an account outbound message notification for all records updated within the last 24 hours.
- B. Leverage the Enterprise WSDL getUpdated() operation to retrieve Account records updated within the last 24 hours.
- C. Leverage the Salesforce Data Replication API getUpdated() operation to retrieve Accounts records updated within the last 24 hours.
- D. Leverage a third party tool ETL with a dynamic changing SOQL to retrieve Accounts updated within the last 24 hours.
- E. Leverage the REST API / sObjects / Account / updated URI to retrieve Accounts records updated within the last 24 hours.

**Answer:** BCD

#### NEW QUESTION 27

Universal Containers wants to ensure Salesforce will only accept secure connections from their ETL tool. How should calls to a custom Apex web service be secured?

- A. VPN
- B. Two-way SSL
- C. Profile Security
- D. IP Whitelisting

**Answer:** B

#### NEW QUESTION 29

In order to avoid slowing down inbound call center sales agents, Universal Containers wants to deduplicate Lead records against their 3rd-party MDM system after that the agent has served the record in Salesforce.

What integration strategy should an Architect recommend?

- A. Outbound message to MDM with a callback to Salesforce to mark duplicate Leads.
- B. Sync the MDM system to a custom object in Salesforce and execute a Lookup validation rule against the object.
- C. Batch APEX process to de-duplicate all records first in Salesforce then against MDM, deleting the newest MDM record.
- D. Use Out-of-the-Box Lead De-duplication Rules to checkagainst MD

**Answer:** A

#### NEW QUESTION 31

Universal containers is building an integration from their employee portal to salesforce Chatter.They would like their employee portal to read and write to the Chatter API on behalf of the employee using the portal.

What is the correct way to authenticate to the chatter API to meet this requirement?

- A. Use oAuth to authorize the portal to access the chatter API on behalf of the user.
- B. Use oAuth Which will pass their portal credentials to the chatter API.
- C. Use a chatter API integration user which authenticates to salesforce using oAuth.
- D. Use a chatter API integration user which authenticatesto Salesforce using Enterprise WSDL login().

**Answer:** C

#### NEW QUESTION 35

What are three capabilities of Salesforce outbound messaging? Choose 3 answers

- A. Provide a session ID as part of the outbound message.
- B. Repeatedly send a SOAP notification for up to 24 hours until an acknowledgement is received.
- C. Build integration components without the Use of APEX.
- D. Define a WSDL based upon 2 objects related via Master-Detaikls relationship.
- E. Define a custom WSDL based upon an Apex Interface class definitio

**Answer:** ABC

#### NEW QUESTION 39

Universal containers has an integration that runs nightly to update the product(product2) object in Salesforce with updated product availability for over 500,000 products. Occasionally(less than 1 time per month) a product record fails to update due to a data validation issue that cannot be predicted in advance.

How should universal Containers monitor this nightly batch import of data into Salesforce so that any error can be corrected promptly?

- A. Configure an Enterprise Server Monitoring tool to process ETL success and failure logs.
- B. Configure Salesforce to email an administrator when Bulk API batches fail.
- C. Monitor the Bulk Data Load Jobs page daily for failed batches
- D. Configure the ETL middleware to notify an administrator via email when a record update fail

**Answer: C**

#### NEW QUESTION 44

Which protocol should an Integration Architect utilize to create a secure channel between Salesforce and other system?

- A. SMTP
- B. TLS
- C. SSH
- D. SFTP

**Answer: B**

#### NEW QUESTION 48

What are three capabilities of Salesforce to Salesforce(S2S)? Choose 3 answers

- A. Share reports and dashboards between Salesforce orgs.
- B. Automatically publish data from the publisher org.
- C. Manually consume data into the consumer org.
- D. Integrate data between Salesforce orgs via pre-built web service adapters.
- E. Publish data from the publisher's Account object to the consumer's Customer c objec

**Answer: BCE**

#### NEW QUESTION 53

What are two benefits of named credentials? Choose 2 answers

- A. They simplify utilizing oAuth for Apex callouts.
- B. They Secure integrations to Salesforce from other systems.
- C. They enforce secure communication to external systems
- D. They securely store credentials in a maintainable wa

**Answer: AD**

#### NEW QUESTION 57

Universal Containers is building a mobile application that connects to Salesforce for reading and updating data  
What is the appropriate authentication solution?

- A. Create a mobile Integration user ID whose credentials are stored within the mobile application code.
- B. Prompt for the mobile user's username and Password; utilize the oAuth Username-Password flow to obtain an oAuth token.
- C. Redirect to Salesforce via the User-agent oAuth flow to obtain an access token and refresh token.
- D. Prompt for the mobile user's username and password; utilize the Enterprise WSDL login() operation to obtain a session ID.

**Answer: C**

#### NEW QUESTION 60

Universal Containers is replacing a home-grown CRM system. Currently, a .Net application runs a batch process to query the CRM system nightly and create a CSV file that is picked up via SFTP and loaded to a SQL database.  
What technology should an architect use to minimize custom development when replacing the CRM system with Salesforce?

- A. Outbound messaging
- B. APEX Batch
- C. APEX Callout
- D. Middleware

**Answer: D**

#### NEW QUESTION 62

Universal Containers (UC) sends Order data to an external ERP system via ESB. UC sends an outbound message on update or Order to ESB. Once ESB completes creating the Order in the backend ERP, it send back the Order with the Order Number from the ERP. During development, UC is experiencing an issue. When the Order is updated by ESB, it again fires a workflow rule that sends the outbound message again.  
Which two recommended steps can be done to prevent this looping issue?

- A. Write an Apex trigger to send an outbound message to ESB.
- B. Update workflow rule conditions to exclude the ERP Order Number field update.
- C. Update workflow rule conditions to exclude the Integration User.
- D. Update the outbound message to exclude the Integration User.
- E. Update workflow rule conditions to exclude the ERP Order Number field updat

**Answer: C**



**NEW QUESTION 65**

UC leverages customer MDM as a source of truth. The requirement is to dedupe and store any account or contact created in MDM before the same is created in Salesforce. This ensures data is clean and not duplicated in Salesforce. During peak season, users experience a "Concurrent Request Limit Exceeded" error. What is the recommended solution?

- A. Invoke a continuation callout to MDM from a VF Page controller.
- B. Invoke a continuation callout to MDM from a before insert trigger.
- C. Invoke a continuation callout to MDM from a VF Page JavaScript.
- D. Invoke a continuation callout to MDM from a VF Page @future cal

**Answer:** A

**NEW QUESTION 67**

Universal Containers (UC) is planning to roll out a new Force.com app to a regional business unit. UC has partial copy and a full sandbox available for deployment. UC's Architect has been asked to design an environment strategy for integration testing and performance testing, as well as user acceptance testing. What is the recommended use of available sandbox types that an Architect should consider?

- A. Use the partial copy for performance testing and full sandbox for integration and user acceptance testing.
- B. Use the full sandbox for performance and user acceptance testing and the partial copy for integration testing.
- C. Use the full sandbox for integration testing and the partial copy for user acceptance and performance testing.
- D. Use the full sandbox for user acceptance testing and use the partial copy for integration and performance testing.

**Answer:** B

**NEW QUESTION 69**

Universal Containers (UC) would like to provide near real-time updates on their customer-facing external portal when a Sales Manager approves a new feature that is recommended by a customer.

UC has no middleware, and the portal exposes a REST API therefore, UC is considering a custom-built system process to handle the integration.

What is the recommended approach for the custom-built system process to retrieve updates in near real-time?

- A. Leverage a related push topic that pushed information to the portal client.
- B. Leverage a Streaming API client to subscribe to the related push topic.
- C. Leverage Canvas to send information to the portal whenever an idea is voted on.
- D. Leverage an outbound message to the portal whenever an idea is voted on the saved.

**Answer:** B

**NEW QUESTION 70**

Universal Containers (UC) has an existing web-based application that a group of employees use on a regular basis. These employees often have Salesforce and the web-based application open and find themselves manually moving the data between both. UC would like the two systems to be integrated so that the employees will see all the data in one screen without the need for manually updating the data.

What integration pattern can help accomplish this requirement?

- A. Use the Force.com canvas framework to embed the external application into Salesforce.
- B. Use Steaming API to create a push topic to send the message to the external system asynchronously.
- C. Use Rest API to pull data from Salesforce and update the external applicatio

**Answer:** A

**NEW QUESTION 74**

Developers at Universal Containers have created a custom command-line tool to help with their application lifecycle management by allowing them to deploy metadata changes such as page layouts, custom labels, and list views to their org using the Metadata API.

What integration pattern does this tool utilize?

- A. Request and Reply
- B. Fire and Forget
- C. Remote Call-In
- D. UI Update Based on Data Changes

**Answer:** A

**NEW QUESTION 78**

What is the recommended approach to implement a login authentication call for an inbound integration call to Salesforce?

- A. Perform the login call only when the session/access token has expired or no longer works.
- B. Perform the login authentication call before each integration call to Salesforce every time.
- C. Only perform a single login call forever and store the session/access token permanently.
- D. Perform the login authentication call before a single transaction of multiple calls to Salesforc

**Answer:** A

**NEW QUESTION 81**

When an opportunity is closed in Salesforce, an order should be created in the back-office SAP system. At the end of the day, Universal Containers allows customers to call back and cancel an order within 24 hours. To cancel an order, the Sales Rep has to set the opportunity status to Open from Closed. The Sales Manager wants all opportunities that changed from Closed to Open to be sent over to the SAP system for order cancellation on nightly basis. Salesforce has a total of 20M opportunities. What is the recommended way to achieve this?

- A. An ETL job to leverage Bulk API to extract modified opportunities.
- B. An ETL job to leverage REST API to extract all opportunities.
- C. An ETL job to leverage SOAP API to extract modified opportunities.
- D. An ETL job to leverage SOAP API to extract all opportunitie

**Answer:** C

#### NEW QUESTION 82

Universal Containers (UC) wants to connect their on-premise ERP system to view Order data in Salesforce. UC is considering a solution to integrate the on-premise system using Salesforce Connect via OData.

Which three considerations should an Architect keep in mind when recommending use of Salesforce Connect?

- A. Customer wants the ability to query external data using Global Search and reports.
- B. Customer does not want real-time access to the ERP data and is willing to wait for hourly refreshes.
- C. Customer wants to create a master-detail relationship between Opportunity and the external object.
- D. Customer needs to query small amounts of data at any time and display using a related list.
- E. Customer has a large amount of data that they do not want to load into Salesforc

**Answer:** ADE

#### NEW QUESTION 85

Universal Containers (UC) maintains the Customer Master outside of Salesforce and would like to sync the Customer records with Salesforce on a daily basis. UC has complex logic in the Account trigger and will have to test it for bulk inserts and updates. UC has been given a csv file with test data.

What is the recommended way to use this data in a test class?

- A. Load the customer-provided csv file as a static resource and refer to it in the test classes.
- B. Load the customer-provided csv file as a Chatter file and refer to it in the test classes.
- C. Load the customer-provided csv file under Documents and refer to it in the test classes.
- D. Load the customer-provided csv file to a custom object for testing and delete the test records after testing.

**Answer:** A

#### NEW QUESTION 90

Customer Support Reps at Universal Containers (UC) work on a Case record in Salesforce while talking to a customer on the phone about a piece of machinery they have purchased from UC. This machine is a connected device and sends data packets to UC as the customer presses buttons on the machine.

What integration pattern will allow the support Rep to watch their screen and diagnose problems customer is having in near real-time?

- A. UI Update Based on Data Changes
- B. Remote Process Invocation-Request and Reply
- C. Remote Process Invocation-Fire and Forget
- D. Remote Call-In

**Answer:** A

#### NEW QUESTION 92

When a Sales Rep closes an opportunity in Salesforce, an Order should be created in Universal Containers' SAP system and the Sales Rep should be notified with an order number as soon as possible.

What is the recommended solution?

- A. Apex @ future callout from an update trigger with an opportunity page refresh using Streaming API.
- B. Workflow Outbound message with an email notification on callback from SAP
- C. Apex callout from an update trigger with an opportunity page refresh using Streaming API.
- D. Workflow Outbound message with an email notification on acknowledgement from SAP

**Answer:** B

#### NEW QUESTION 97

Universal Containers has a requirement to update the Salesforce Account object any time the corresponding account is updated within their financial system.

Which three Salesforce capabilities should the Architect consider?

- A. Partner WSDL because of a requirement to utilize SOAP-based web services.
- B. Partner WSDL because of a requirement to dynamically inspect field names during runtime.
- C. Streaming API because of a requirement to dynamically inspect field names during runtime.
- D. Enterprise WSDL because of a requirement to utilize SOAP-based services
- E. Partner WSDL because of a requirement to utilize REST-based web services

**Answer:** ABD

#### NEW QUESTION 99

Universal Containers (UC) has many existing applications, including Salesforce, that their users access. UC would like to integrate these applications with Salesforce so that users can accomplish all of their tasks in one user interface.

What is the recommended solution for integrating these applications into Salesforce?

- A. Set up the external applications as Connected apps into the Salesforce user interface.
- B. Use streaming API to integrate these applications into the Salesforce user interface.
- C. Set up the external applications as Canvas apps into the Salesforce user interface.
- D. Connect the external applications into the Salesforce user interface using Salesforce Connec

**Answer:** C

**NEW QUESTION 103**

Universal Containers would like to use a hard-coded username/password/security token of a user with a System Administrator profile to integrate its back-end system to Salesforce for inbound API calls.

Which two security issues are associated with this approach.

- A. All back-end systems get uncontrolled access to any data within the Salesforce environment.
- B. Unintended password resets will cause the integration to stop working and disrupt business processes.
- C. Apex web services can execute with system privileges with such Salesforce credentials.
- D. Unsecure storage of the credentials may result in hackers gaining unauthorized access to Salesforce.

**Answer:** AD

**NEW QUESTION 107**

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