



Certification Exam Guide

SALESFORCE CERTIFIED INTEGRATION ARCHITECTURE DESIGNER

Winter '19

CONTENTS

About the Salesforce Certified Integration Architecture Designer Credential	1
Section 1. Purpose of this Exam Guide.....	2
Section 2. Audience Description: Salesforce Certified Integration Architecture Designer.....	3
Section 3. About the Exam.....	4
Section 4. Recommended Training and References	5
Section 5. Exam Outline	6
Section 6. Sample Exam Questions	8
Section 7. Answers to Sample Exam Questions	10
Section 8. Maintaining a Certification.....	11

ABOUT THE SALESFORCE CERTIFIED INTEGRATION ARCHITECTURE DESIGNER CREDENTIAL

The Salesforce Certified Integration Architecture Designer credential is designed for architects, analysts, and application managers who want to design secure, scalable integrations with the Lightning Platform. The certification exam is designed to determine a candidate's fluency in effectively communicating technical solutions to technical stakeholders and providing a project delivery framework that ensures quality and success.

SECTION 1. PURPOSE OF THIS EXAM GUIDE

This exam guide is designed to help you evaluate your readiness to successfully complete the Salesforce Certified Integration Architecture Designer certification exam. This guide provides information about the target audience for the certification exam, recommended training and documentation, and a complete list of exam objectives—all with the intent of helping you achieve a passing score. Salesforce highly recommends a combination of on-the-job experience, course attendance, and self-study to maximize your chances of passing the exam.

SECTION 2. AUDIENCE DESCRIPTION: SALESFORCE CERTIFIED INTEGRATION ARCHITECTURE DESIGNER

A Salesforce Certified Integration Architecture Designer assesses the integration requirements necessary to design secure, scalable solutions integrating the Salesforce platform. The designer has experience designing and implementing complex integration patterns to various platforms, as well as communicating the solution and design trade-offs to business and technical stakeholders alike.

The Salesforce Certified Integration Architecture Designer has the following background:

- B.S. degree in Computer Science or equivalent degree
- Three to four years in the Salesforce Platform
- One to two years of Salesforce Integration experience
- One year of Integration Architecture experience

Typical job roles may include:

- Technical Architect
- Programmer Analyst
- Application Manager
- Integration Architect
- Solution Architect

The Salesforce Certified Integration Architect Designer candidate has the experience, skills, and knowledge to:

- Design high-performing, secure, and reliable integrations with the Lightning Platform and other enterprise applications.
- Analyze existing and future state integration architecture.
- Develop and maintain the Integration Architecture blueprint for the project.
- Integrate with other enterprise applications and other cloud applications.
- Effectively communicate architecture design to various stakeholders at many levels.
- Follow best Domain practices in integration.
- Architect robust, scalable security mechanisms for interfaces.

A candidate for this exam will likely need assistance to:

- Define best-choice Middleware tools in a given scenario (feature/functionality).

A candidate for this exam is not expected to:

- Configure Middleware.

SECTION 3. ABOUT THE EXAM

The Salesforce Certified Integration Architecture Designer exam has the following characteristics:

- Content: 60 multiple-choice/multiple-select questions
- Time allotted to complete the exam: 105 minutes (time allows for unscored questions)
- Passing Score: 67%
- Registration fee: USD 400, plus applicable taxes as required per local law
- Retake fee: USD 200, plus applicable taxes as required per local law
- Delivery options: Proctored exam delivered onsite at a testing center or in an online proctored environment. Click [here](#) for information on scheduling an exam.
- References: No hard-copy or online materials may be referenced during the exam.
- Prerequisite: None

SECTION 4. RECOMMENDED TRAINING AND REFERENCES

As preparation for this exam, Salesforce recommends a combination of: hands-on experience, training course completion, Trailhead trails, and self-study in the areas listed in the Exam Outline section of this exam guide.

To enroll in instructor-led courses and launch online training from your Salesforce application, click the **Help & Training** link in the upper right corner of the screen (requires login) and search for the desired courses. Non-Salesforce customers can register for instructor-led courses [here](#).

To review online Documentation, Tip Sheets, and User Guides – search for the topics listed in the Exam Outline section of the exam guide and study the information related to those topics. Documentation, Tip Sheets, and User Guides can also be accessed through **Help & Training**.

TRAILHEAD TRAILMIX

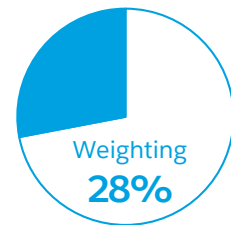
Check out the official [Certification Trailmix](#) for this credential. We have included essential Trailhead learning specifically with you in mind.

SECTION 5. EXAM OUTLINE

The Salesforce Certified Integration Architecture Designer exam measures a candidate’s knowledge and skills related to the following objectives. A candidate should have hands-on experience with Integration Architecture application and demonstrate the knowledge and expertise in each of the areas below.

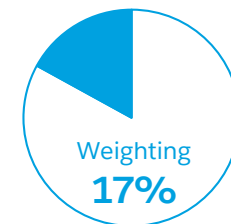
SALESFORCE INTEGRATION CAPABILITIES

- In a given scenario, recommend when to use API-based integrations, such as SOAP, REST, Bulk, Streaming, Canvas, Workflow outbound, APEX (Callouts, @future, etc.) and Lightning Connect to achieve business requirements.
- Compare and contrast the advantages and drawbacks (design trade-offs) of using API-based integrations such as SOAP, REST, Bulk, Streaming, Canvas, Workflow outbound, APEX (Callouts, @future, etc.) and Lightning Connect.



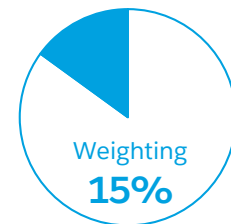
SALESFORCE INTEGRATION PATTERNS

- Provided an integration scenario, describe requirements and issues that the Architect must consider to select the right pattern (Layer, Timing, Direction, and Volume).
- In a customer scenario containing business requirements, summarize which implementation pattern will achieve those goals.
- Compare and contrast the advantages and drawbacks (design trade-offs) of using various patterns, such as: Remote Process Invocation–Request and Reply, Remote Process Invocation–Fire and Forget, Batch Data Synchronization, Remote Call-In, and UI Update Based on Data Changes.



ENTERPRISE INTEGRATION ARCHITECTURE CONCEPTS

- Given a customer scenario containing business requirements for integrating Salesforce with other enterprise back-office systems, recommend the appropriate integration architecture.
- Analyze and determine when and where to use data cleaning, standardization, deduplication, and data transformation as part of data integration.
- Analyze and determine the various considerations while performing data migration (including but not limited to: platform handle bulk data load vs SOAP data load, monitoring the data loads, and error handling).



SALESFORCE INTEGRATION TESTING

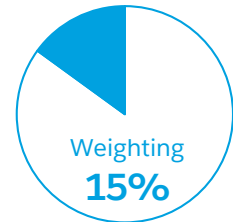
- Given a software development lifecycle scenario, determine the timing, type, and sequence of testing activities that are needed for successful implementation.



- Given an integration scenario, determine the appropriate platform capability needed to meet the testing requirements.

INTEGRATING WITH SALESFORCE: SECURITY

- Given a scenario, determine the appropriate security strategy to meet the customer requirements.



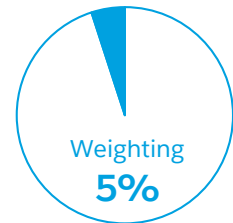
TOOLS

- Given a scenario, determine the appropriate tools to meet the customer requirements.
- Given a scenario, analyze and recommend the appropriate tools by comparing the pros and cons to meet the business requirements.



MONITORING

- Given a scenario, identify, isolate, and recommend approaches for integration challenges.



SECTION 6. SAMPLE EXAM QUESTIONS

The following questions are representative of those on the Salesforce Certified Integration Architecture Designer exam. These questions are *not* designed to test your readiness to successfully complete the certification exam, but should be used to become familiar with the types of questions on the exam. The actual exam questions may be more or less difficult than this set of questions.

1. Universal Containers implemented email-to-case to allow customers to email their support requests. They found that cases were getting created correctly, but the email attachments weren't attached directly to the cases. Instead, they were attached to the emails under the Open activities related list.

Which two options should be considered to make sure the attachments get attached directly to the cases?

Choose two answers

- A. Choose the option **Save attachments** under Cases in email-to-case setup options.
 - B. Write a trigger on the Case to copy/move attachments from email activity to case.
 - C. Use the Email handler service to extract attachments and create under Cases.
 - D. Set up web-to-case to automatically create attachments under Cases.
2. 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?

Choose one answer

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

3. The Integration Team at Universal Containers is frustrated because the developers keep changing the data model and trigger behaviors during development, resulting in frequent rework and unexpected bugs late in the development process.

Which two recommendations should a Technical Architect make to resolve this issue?

Choose two answers

- A. Implement a Regression Testing policy to catch issues earlier in the development process.
 - B. Encourage code developers and integration developers to work in separate sandboxes.
 - C. Implement a Continuous Integration process to identify issues earlier in the development process.
 - D. Use a requirements traceability matrix to track data model changes back to the requirement that prompted them.
4. What mechanism should an Integration Architect recommend to make a secure, authenticated connection to a remote system that results in the remote system trusting Salesforce?

Choose one answer

- A. Use a pre-shared key in a query parameter.
 - B. Implement two-way (or mutual) SSL certificates.
 - C. Utilize CA-signed certificates on the host.
 - D. Encrypt the payload with a shared key.
5. Which two things should an Integration Architect consider when building a Visualforce page that makes client-side callouts to multiple domains that may violate the browser's same-origin policy?

Choose two answers

- A. Utilize the Canvas SDK to perform the callouts.
- B. Set up CORS to whitelist all domains that the client scripts communicate with.
- C. Ensure each JavaScript resource communicates only with its origin.
- D. Set up Remote Site Settings for all domains that the client scripts communicate with.

SECTION 7. ANSWERS TO SAMPLE EXAM QUESTIONS

1. B, C
2. A
3. A, C
4. B
5. B, C

SECTION 8. MAINTAINING A CERTIFICATION

One of the benefits of holding a Salesforce credential is always being up to date on new product releases. Our release exams are designed to ensure you have the latest information you need to be a successful Salesforce Certified expert.

Bookmark these useful resources for maintaining your credentials:

- [Maintenance Exam Due Dates](#)
- [Verify Your Certification Status](#)
- [Overall Maintenance Requirements](#)

Don't let your hard-earned credential expire! Once you earn the credential, if you do not complete all maintenance requirements by the due date, your credential will expire, or in some cases, become suspended. For more information, click [here](#).

ABOUT TRAILHEAD

Trailhead is your path into the Salesforce economy. It's the fun way to learn the skills you need to transform your company, earn credentials that grow your career, and connect with a global movement of Trailblazers to continue learning together.

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Learn at your own pace, from our experts, and your peers.

EARN

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