



Couchbase

CAPELLA

**Couchbase Associate Architect
Certification With Capella Exam
Study Guide**

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Welcome to Couchbase Associate Architect Certification With Capella!

What to Expect:

- ⇒ Use this Study Guide to prepare for the Couchbase Associate Architect Certification With Capella Exam.

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Couchbase, Inc.
3250 Olcott Street
Santa Clara, CA 95054
United States
1-650-417-7500
couchbase.com

Certification Program and Exam Overview

This Study Guide is designed to help you prepare for the Couchbase Associate Architect Certification With Capella exam. The 40-question certification exam is based on fundamental aspects of Couchbase 7.0+ as accessed with Couchbase Capella and various Couchbase SDKs. As with any certification, the most valuable parts are the learning process which leads to successful concept recognition.

We encourage you to take time to go through the Couchbase Associate Architect Certification With Capella modules which are offered free and online in a self-paced learning environment. These materials are designed to walk you through essential topics, Couchbase database and Couchbase Capella DBaaS features and benefits, as well as how Couchbase 7.0+ knowledge can be applied from the perspective of an Application or Solutions Architect. However, taking the course is not a required prerequisite to taking the Certification Exam.

Items to understand:

- ⇒ Topics in this Study Guide and aligned to the exam and are organized by subject area, where each topic contains a description of what you should make sure you know.
- ⇒ The list of topics can be used as a check-list.
- ⇒ The CB131 course can be used for points of reference and explanation of key concepts covered in the exam.
- ⇒ Everything in the exam is covered somewhere in the course materials.

Possible Preparation Path:

- ⇒ Register for and take the 8 modules of CB131: Couchbase Associate Architect Certification With Capella.
- ⇒ Make notes of key topics and call outs that align with the Study Guide topics listed.
- ⇒ Work through the lab exercises for practice with key concepts. Use labs to experiment with anything you need to spend more time on.
- ⇒ Please keep in mind that you are expected to have good working knowledge of all the topics listed. Most of the preparation questions will be very general; however, you will be asked a few advanced questions.

Certification Exam Logistics

When you are ready to test and validate your product knowledge, please visit learn.couchbase.com/store to purchase an industry-recognized CB131: Couchbase Associate Architect Certification *With Capella* Exam.

- Certification exams may be taken from a location of your choosing, anywhere in the world, provided you meet the basic system and test environment requirements. ***Please read these instructions thoroughly.*** [See here for requirements.](#) *Mac users should pay specific attention here as setting changes may be required.* All users will need to bring a photo ID to the exam.
- For help with your exam purchase, exam registration process, credentials verification, or other questions related to our certification program, process, and procedures, please visit couchbase.com/academy/certification.
- The exam itself is computer-based and must be purchased from Couchbase.
- As of August 1, 2023, this exam will no longer require a proctor.
- You have up to 60 minutes to answer the 40 multiple choice questions. You must answer at least 32 questions correctly (80%) in order to pass the exam.
- Read each question carefully, and provide the best answer. Questions can be skipped and returned to as you have the ability to review all selected answers before submitting the exam.
- One exam attempt is available per purchase.

Certification Exam Pass/Fail Scenarios

If you earn a passing score, you will be granted the Couchbase Certified Associate Architect badge which is granted by Credly, our badging vendor.

- This badge can be socialized on LinkedIn, Twitter, Facebook, WhatsApp, or within your email signature.
- The skills you show with this certification have been validated as appropriate for the Associate-level Architect, and have been attested to by many Subject Matter Experts within Couchbase, Inc.

If you do not earn a passing score, you are encouraged to:

- Review the CB131: Couchbase Associate Architect Certification With Capella Course and Study Guide at no additional cost.
- ***Purchase a new exam on the Couchbase Academy Store.***

Certification Exam Frequently Asked Questions (FAQs)

1. Is there anything in the exam, which was not covered in the modules?

No, everything in the exam is derived from the modules materials and associated lab exercises.

2. Do I have to know class names and method signatures?

No, however we expect you to be familiar with the basic method structure of the APIs in question and to evaluate if the given methods are written correctly or not.

3. Do I have to write, complete or rearrange source code?

No. The only thing you should be able to do is read a snippet of code and understand what it's doing.

4. Who is eligible to take a certification exam?

Our certification exam is available to individuals seeking to attain the Couchbase Associate Architect certification. We offer a corresponding course to help you prepare you for our certification exam. However, you may purchase and sit for a certification exam any time you like.

5. Can I get certified without taking the training course?

Our training course is the best way to gain the knowledge tested in our certification exam. However, course attendance is not a required step in the certification process.

6. How do I purchase a certification exam?

Exams are available for purchase on our [Couchbase Academy Store](#). Locate the exam and add to cart (*CB131: Couchbase Associate Architect Certification With Capella Exam*) where you will be directed to log in if you have not already done so. Once logged in, you will complete the checkout. Once purchase has completed, you can begin your exam in the Couchbase Academy.

7. How long is my exam purchase good for?

Once you have purchased the exam from the Couchbase Academy store, you must take your exam within 90 calendar days or the exam expires. Once this exam has expired, you must purchase another if you wish to continue with the exam. Therefore we encourage you not to wait to take your exam.

8. What happens if I pass the exam?

Within 72 hours of passing the exam, you will receive a notice to claim your digital badge through Credly. Once you accept your badge, you can share via LinkedIn, Twitter, and/or place in your email signature.

9. What happens if I do not pass the exam?

ONE exam purchase offers you **ONE opportunity** to take the exam, whether you pass or fail. If you need another opportunity to take the exam, you may purchase again from our store. We encourage you to refresh your knowledge with the material in the associated course before re-attempting the exam.

10. Do I have to create an account to take the exam or get the badge?

In order to accept your badge, you ARE required to create an account with Credly.

Couchbase Overview

1. What is SQL and what are its features and benefits?
2. What is NoSQL and what are its features and benefits?
3. How do Relational (SQL) databases compare to NoSQL database benefits?
4. Compare and contrast Vertical and Horizontal scaling.
5. What are the services Couchbase provides and what are the benefits of each?
6. How do different document types impact database storage plans?
7. Describe the important considerations when selecting Keys for Documents in a Key/Value Store.
8. Define JSON, the essentials of JSON syntax, and the capabilities of JSON documents.
9. How do JSON documents work with Key/Value pairs?

Getting and Setting Up Couchbase Capella

10. How can you download Couchbase and what are the benefits of downloading on a local machine, using Docker, and using a Public Cloud options?
11. What type of Database/Cluster would a user create for prototyping and application? How might that approach change when creating a production-ready application?
12. What are the key considerations when allocating Memory upon initial set-up in Couchbase?
13. How do Couchbase Database/Clusters, Buckets, Collections, and Scopes compare to similar concepts in Relational databases? For example, a Couchbase Database/Cluster is similar to _____ in a Relational database.
14. When and how are Bucket replicas created in Couchbase?
15. What are Scopes, Collections, Default Scopes, and Default Collections, and how do they function in Couchbase?
16. What is a Flush setting and when might it be enabled?
17. Given data amounts and restrictions, be able to allocate memory correctly for a Couchbase Bucket.
18. What are the steps a user would follow to create a new Couchbase Database/Cluster?
19. What are the steps a user would follow to connect Couchbase to data?
20. Define Couchbase Capella, including features and benefits.

How to Store and Access Data Using the Couchbase SDKs

21. Be prepared to evaluate Database/Cluster, Bucket, Scope, and Collection code for accuracy in order to complete pertinent operations.
22. Explain how the storage of data and its format can contribute to getting the most out of Couchbase.
23. List the different exceptions or errors that can be thrown and what each exception or error means.
24. What are the basic Key/Value operations and what does each achieve?
25. Explain what a Scope and Collection are and how they impact data storage.
26. How would a user connect to Couchbase using Java, Node.js, or .NET SDKs?
27. What permissions should a new user have in order to access a Couchbase Database/Cluster?

How Document Design Impacts Application Behavior

28. What is the difference between a natural key and surrogate key?
29. According to this training course, what are the interconnected factors that impact data modeling?
30. According to this training course, what are the phases of data modeling, and how can each phase impact application performance?
31. What are common Domain Object patterns used? What are the pros and cons of each pattern?
32. What are the document storage requirements for Couchbase Collections?
33. Describe how data denormalization could be beneficial or detrimental to data storage, resources, and data access speed.
34. How can the composition of a document key impact your data model?
35. How can including Object Arrays in documents impact your data model?

How to Query Using Couchbase's SQL++/N1QL in Capella

- 36. Define SQL++/N1QL, its capabilities, and its key syntax elements.
- 37. What are the key elements and drop-down menus in the Capella Query Workbench and what do they show?
- 38. Define and describe the following indexes: Primary, Secondary, Composite, Partial, Partial Composite Indexes.
- 39. Be prepared to identify valid SQL++/N1QL query statements and SQL++/N1QL best practices.
- 40. Which values are returned by the META function in SQL++/N1QL?
- 41. What does the use of a back tick (`) indicate in SQL++/N1QL?
- 42. How does case sensitivity impact SQL++/N1QL?
- 43. Which Data Manipulation Language operations are available in SQL++/N1QL?

How to Utilize Couchbase Full-Text Search (FTS) in Capella

- 44. What does an inverted index allow an Architect to see?
- 45. What are the steps a text analyzer takes when evaluating search data?
- 46. What principles are used to create a fuzzy search in Couchbase FTS?
- 47. How are different query types (e.g. Boolean Field Query, Match Phrase Query, Wildcard Query, and RegEx Query) treated in Couchbase Full-Text Search?
- 48. In what search conditions might an Architect elect to query using SQL++/N1QL over FTS and FTS over SQL++/N1QL?
- 49. What are the fuzziness capabilities within FTS and what does each setting mean?
- 50. On which SDK objects are FTS call made in Couchbase?
- 51. How does ETL impact data accuracy in relation to Search?



Next Steps

Now that you have completed this Study Guide, we hope you feel prepared to take the Couchbase Associate Architect Certification With Capella exam.

Exam

The exam must be purchased at the Couchbase Academy Store and take your exam. It will contain 40 questions. You will be given 60 minutes to complete the exam, and no feedback will be provided at the question level. Once you have completed the exam, you will be given your score.

Questions? Concerns?

Please send all inquiries to training@couchbase.com.