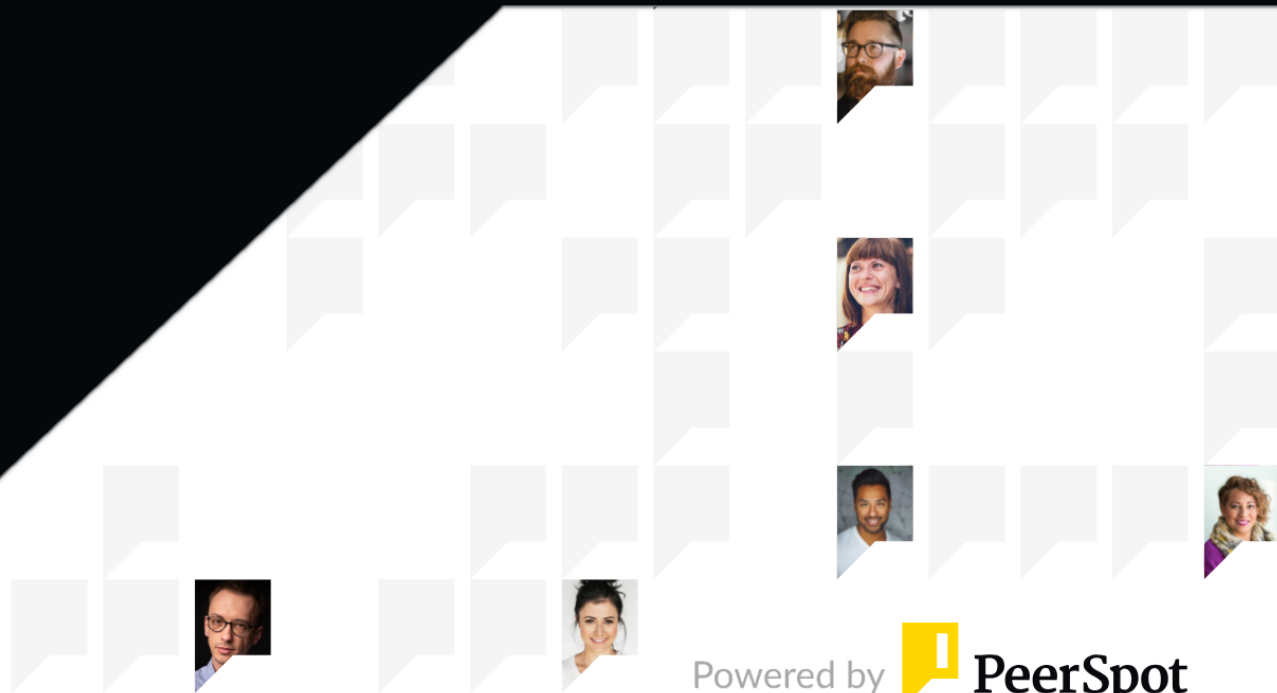




Couchbase Server

Reviews, tips, and advice from real users



Powered by  **PeerSpot**

Contents

Product Recap..... 3 - 4

Valuable Features..... 5 - 11

Other Solutions Considered..... 12 - 13

Use Case..... 14 - 19

Customer Service and Support..... 20 - 21

Other Advice..... 22 - 25

Trends..... 26 - 27

About PeerSpot..... 28 - 29

Product Recap



Couchbase Server

Couchbase Server Recap

Couchbase Server is a robust NoSQL database tailored for high-performance applications, facilitating seamless scalability and flexibility. It supports real-time data processing, ensuring consistent and reliable data management suited to demanding environments.

Known for its advanced capabilities, Couchbase Server is a document-oriented database designed for modern app development. It integrates memory-first architecture, allowing for efficient data storage and retrieval. Its distributed nature ensures horizontal scalability across environments. Couchbase offers an intuitive interface for developers, allowing them to manage data across multiple platforms with ease. It supports various use cases, from offline-first mobile apps to mission-critical enterprise applications.

What are the standout features of Couchbase Server?

- **Memory-First Architecture:** Prioritizes speed and efficiency by using RAM as a primary storage for active data.
- **Cross Datacenter Replication (XDCR):** Ensures data availability and resilience through multi-site replication.
- **Eventing and Analytics:** Provides real-time data processing for analytical and business insights.
- **SQL++ Query Language:** Combines ease of SQL syntax with NoSQL flexibility for complex queries.

What benefits and ROI should users consider in Couchbase Server reviews?

- **Scalability:** Adaptable capacity handling for growing data volumes without performance loss.
- **Performance Optimization:** Enhancements in speed and processing capabilities lead to reduced latency.
- **Cost Efficiency:** Eliminates need for expensive hardware upgrades by leveraging commodity hardware.
- **Time to Market:** Fast development cycles supported by Couchbase reduce deployment times.

Couchbase Server is widely implemented in industries like retail, finance, and healthcare. Its application in retail analytics enhances customer experience by leveraging real-time insights for personalized recommendations. In finance, it provides secure, scalable solutions for fraud detection and transaction analysis. In healthcare, Couchbase manages patient data, ensuring compliance and efficient access to critical information.

Valuable Features

Excerpts from real customer reviews on PeerSpot:



“Couchbase Server is a high-performance NoSQL document database that we primarily use for caching and generative AI to develop modern applications using rapid data access and offline support for offline mobile applications, along with flexible data modeling.”



Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees



“Couchbase Server's primary benefit is that our data is in JSON form, and it is very fast in comparison to saving and retrieval with low latency.”



Saroj Sahu

Technical Analyst at Coforge Growth Agency



“From knowing how Couchbase Server works and the performance outcome which I saw in real projects during battle testing and during anti-DDoS efforts, during my own project, I still keep using Couchbase Server and I am comfortable with it.”



Anar Jafarov

Software Engineer at Halalfoodle



“I would advise others considering Couchbase Server to note that compared to other tools such as MongoDB, it is easier to use, reliable, and offers high availability while continually adding more features, making it a suitable choice, especially for large data environments.”



Anuj Gupta

Devops Specialist at Amdocs



“Couchbase Server is an absolute powerhouse for high-velocity modern enterprise applications and bridges the gap between flexible schema advantages of NoSQL and the rigid, trusted query capabilities of relational databases beautifully.”



BasilJiji

System engineer at a retailer with 10,001+ employees



“Couchbase Server positively impacts my organization as it serves as a crucial tool for my consulting services, allowing me to offer solutions to my clients' problems.”



Jimd Daugherty

President at JIMD Group



“I primarily use Couchbase Server for cache because this cache is very useful and the performance is excellent.”



Vagner Fcoelho

Software Architect at a financial services firm with 201-500 employees

What users had to say about valuable features:

“The best feature Couchbase Server offers is performance.

“When I say performance, I mean the way Couchbase Server structures and manages data. I specifically appreciate the performance that Couchbase Server provides.

“Couchbase Server has positively impacted my organization, as it is important for the maintenance and security of the flows I have noticed..”

Vagner Fcoelho

Software Architect at a financial services firm with 201-500 employees

[Read full review](#)

“The best feature is the query in Couchbase Server to search configurations using SQL.

“When I need to search for a specific value, I use SQL to find it. SQL is the main feature I use in the company.

“The improvement is more speed. Speed is the main improvement my company has experienced with Couchbase Server..”

Dev_Dev

Software Developer at a tech vendor with 51-200 employees

[Read full review](#) 

“The best feature Couchbase Server offers is the local database on the iPhone or smartphone, enabling me to conduct analysis or targeting without needing a constant connection to the server.

“Using that local database feature allows me to sync data back to the main Couchbase Server very easily. I just need to reconnect to a decent connection and hit a button to run the sync, which confirms whether it has been done, making it a lot easier than SQL server scenarios.

“Couchbase Server positively impacts my organization as it serves as a crucial tool for my consulting services, allowing me to offer solutions to my clients' problems..”

Jimd Daugherty

President at JIMD Group

[Read full review](#) 

“Couchbase Server has definitely improved the workflow in my organization. The UI out-of-the-box does many things. I recently discovered collections and scopes, which I was not aware of, but after discovering them, they saved me many things related to governing indexes and creating special indexes to query. Now I can put data structures in the collections, which I can directly look up. I know that in a specific collection, I will get only specific types of documents, instead of having everything together in one place. That is great. After struggling with custom-based sequences and custom pointer documents that have numeric values pointing to the original document, now with collections and scopes, I can separate data structures, which saves me time. The UI is the best. All of these features have saved me maintenance costs and improved operation performance. I can quickly log into the UI and handle all the necessary operations. I can check logs and see warnings, everything in one place. I do not need extra items to use it.

Couchbase Server is very performant. I had a situation where I used it as session storage once in my lifetime, and it was very powerful. It handled DDoS situations when the application was creating 100,000 sessions in a second, and it was very fast..”

Anar Jafarov

Software Engineer at Halalfoodle

[Read full review](#) 

“I have used Couchbase Server for approximately four to five years. We interact with Couchbase Server and extract data every day. We created a tool named JSON Copilot tool, which is used for schema conversion and automated validation. Sometimes documents are not proper when we create a table, so we validate the data using this tool. We can directly take the document from Couchbase Server and validate it in our tool. This is very useful for extracting and querying JSON documents without a rigid schema.

“We have used a vector approach to get data using the RAG model. It also supports offline data, which is very useful for our team for high-performance applications, caching, and generative AI.

“We use Couchbase Server as an eventing service so that the data service can initiate and advance the workflow based on raw data. When we integrated it into the workflow system, Couchbase Server became the center of the data lifecycle. It helps us validate data, and when client applications update a document, Couchbase Server triggers JavaScript-based logic, such as on update and on delete, and instantly forwards that payload to an external orchestrator or message broker. This is very useful for our case.

“Couchbase Server's best feature is that it operates directly with no-code workflow builders for modern AI workflows. We support vector store integration, which means we can use an embedded vector knowledge field that can be used by AI to inject semantic search context into the LLM.”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

[Read full review](#) 

“Couchbase Server offers several valuable features, including the ability to store flexible JSON documents with any structure, and it provides an in-memory architecture with first reading, then writing capabilities. We can apply auto-scaling in Couchbase Server by adding multiple nodes, which automatically distribute the data across nodes while having built-in cache. When Couchbase Server is built, they provide a disk to store and cache together, so if data is in the cache, it will not hit the database directly; instead, it will fetch data from the cache.

“Whenever we use SQL Server, we use queries to fetch data. Similarly, Couchbase Server provides N1QL queries for data retrieval. In terms of security features, Couchbase Server offers role-based access control with automatic encryption and TTL timeout settings for automatic destruction upon reaching the time limit. The security capability includes role-based access control at the bucket level and essentially at the scope level, granting access based on defined roles. It also supports various authentication types, including built-in username and credential systems and LDAP.

“Couchbase Server has positively impacted my organization as every company deals with data, which we are storing in Couchbase Server. When a user interacts with Couchbase Server for the first time, it fetches data from the database and stores it in the cache, so subsequent hits fetch directly from the cache without going to Couchbase Server. We don't need to explicitly set any caching technology such as Redis or Hazelcast since it has its own cache, making Couchbase Server retrieval for data purposes comparable to others..”

Saroj Sahu

Technical Analyst at Coforge Growth Agency

[Read full review](#) 

Other Solutions Considered

“Before choosing Couchbase Server, I evaluated alternatives such as Mongo and other NoSQL databases, but Couchbase Server stood out as the best option, although more developer-focused resources would be beneficial..”

Jimd Daugherty

President at JIMD Group

[Read full review](#) 

“I use many different solutions such as MySQL and MariaDB, but I don't use Microsoft SQL because I have a poor opinion of its value, and I view Oracle as particularly unfavorable..”

Jimd Daugherty

President at JIMD Group

[Read full review](#) 

“We have evaluated MongoDB and Postgres server. We found Couchbase Server very useful for our application since we are supporting NoSQL documents and validating data. Performance-wise, writing queries is very easy and comfortable in Couchbase Server across distributed applications..”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

[Read full review](#) 

“I changed organizations, where Couchbase Server is used because our data is in JSON format and structured accordingly. In my previous role, we utilized a SQL database as our data was interdependent, but now, the JSON format is sufficient for our needs. The choice ultimately depends on the structure of data since relational databases are better suited for data with inherent relationships..”

Saroj Sahu

Technical Analyst at Coforge Growth Agency

[Read full review](#) 

“I previously used MongoDB and ArangoDB before choosing Couchbase Server. All of them are good. From knowing how Couchbase Server works and the performance outcome which I saw in real projects during battle testing and during anti-DDoS efforts, during my own project, I still keep using Couchbase Server and I am comfortable with it. I never think about switching to SQL-based servers. I do not think about switching to MongoDB and others. This is only the case if I am able to control the architecture..”

Anar Jafarov

Software Engineer at Halalfoodle

[Read full review](#) 

Use Case

“My main use case for Couchbase Server is for integration with iPhone apps, as it has Couchbase Lite that goes on the app, making it very easy to connect to the server side of the equation. It also has the ability to store the database on the phone, allowing the use of the phone without being constantly connected to the server, which is the feature I like the best.

“The local storage feature helps my users day-to-day by allowing them to perform necessary database functions, such as invoicing, in situations where they may not have a good connection, as they can preload the database they need in advance.

“I usually prototype my setups fairly cheaply so that my clients can use it without worrying about accumulating significant costs..”

Jimd Daugherty

President at JIMD Group

[Read full review](#) 

“I used Couchbase Server at ViajaNet five years ago, and I am currently using it at Vertiv for cache specification.

“I primarily use Couchbase Server for cache because this cache is very useful and the performance is excellent. I need ultra-performance for risk analysis. In my order flow, I need to obtain more information about the participant and the count of the order that exists, and I require precise information with ultra-performance.

“In the order flow, if a participant makes three orders in two seconds, one second, or one minute, it is accounted for, and I have rules for specific times when this participant makes orders.

“Couchbase Server is important for performing in several flows that I have in my company..”

Vagner Fcoelho

Software Architect at a financial services firm with 201-500 employees

[Read full review](#) 

“I use Couchbase Server as a main database to store information as key and value objects for geolocation-based lookups for place data. I use it for many purposes, depending on the use case. I use its indexing feature, its search feature, its querying feature, and everything depending on the type of project and complexity. Halalfoodle is a location information catalog for restaurants. I also have another use case for an ORTB system to keep analytical counters, not all the analytical data, but counters and configurations, because it is easy to set up and easy to manage with its beautiful UI, which saves me from needing extra UI tools. It saves me time.

I use Couchbase Server because it allows me to use it as flexible data storage. If I want, I can use it as key-value storage. If I want, I can use the SQL feature to query it. If I want, I can use its analytical views feature to create necessary views to query. I think its primary and greatest feature is the UI, which simplifies many things. With another database, you have to have a separate client utility from the terminal. This one gives you a UI which is beautiful and easy to use. It really saves time. The XDCR feature is the best. I simply set it up, define the IP address, and it automatically distributes the data between the data center instances, which is a very helpful feature. There is no headache, everything is out-of-the-box, and all of it is great..”

Anar Jafarov

Software Engineer at Halalfoodle

[Read full review](#) 

“Couchbase Server is used primarily for caching to store values, which provides the software with increased speed and helps find and certify that values are correct on the server.

“In the software, we have employers and sellers. I use Couchbase Server for the configuration of sellers, including money and POS, which is a small terminal. The seller is certified to draw. We have between 5,000 and 10,000 sellers in the database. Couchbase Server is used to cache the configuration values for any seller in the software.

“Couchbase Server provides us with more flexibility and a great cache. It provides speed for the software and is the main component for speed.

“When our sellers are certified in the streets, the terminal does not get information from the relational database. Instead, it finds the configurations in Couchbase Server for more speed in the operation..”

Dev_Dev

Software Developer at a tech vendor with 51-200 employees

[Read full review](#) 

“We are using RAG here, and Couchbase Server is supported as a vector store, providing a high-performance solution for managing and retrieving vector data. This integration helps us to create a no-code AI workflow with flexible vector storage. Flowise is an open-source tool that allows us to create and manage workflows with a visual no-code interface. We install Flowise using NPM and then use Docker to deploy our project for running it in a container. We upsert into Couchbase Server and run queries using a Couchbase Server retriever. We process and generate data using ChatGPT 4O and handle multi-retrieval using multi-interaction to ensure accurate and context-specific responses.

“We have used Couchbase Server in our applications, including a sales plus application. In that application, we moved card validation from the Xamarin code and created a tool to validate all card validations. We directly interact with the document and check each document in Couchbase Server to ensure it is correct. Sometimes we pull data from Couchbase Server, but some attributes are not present. We created a tool to validate the data, and when orders are placed, payment is processed and then shipped, with Couchbase Server storing the state of the active workflow as a JSON document. In our project, we use the same approach. We run a distributed workflow, and if it fails, we can directly fetch the data from Couchbase Server to see how it is handling the data between our microservices without forcing them to communicate directly..”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

[Read full review](#) 

“Couchbase Server's main use case for our organization is storing data in JSON format where we have the document ID we need to store. If data is in JSON form, we can use Couchbase Server, and it will provide a cache layer before storing the data. We are primarily using Couchbase Server to store JSON data itself, but there are many more usages. It is a NoSQL distributed database built on low latency and high throughput. We can store various data such as user sessions, preferences, and profiles.

“Couchbase Server is particularly useful for user sessions and preferences. A session is commonly used to store temporary data for login purposes. Whenever a user enters their credentials, we first validate them. If validation is successful, we generally store the session information in the backend. The data that the user provides is in JSON form, where we can set the user ID, username, login time, and all related information. We store the data using a key prefix, which is session colon session ID, with the session ID generated in the Java backend. We set a timeout, and if we set any timeout, such as 50 minutes, the session will expire after that time, requiring the user to send the data again. We are also using an index to store query information.

“In my current project, I have been working in the airline domain, so if a user is changing or rescheduling any ticket information, we need to send all modification information to our timers. Currently, we are using Couchbase Server as the primary database, where we need to store settings to perform operations in our project. We store settings in a way that identifies the records with a document ID provided by Couchbase Server. Couchbase Server's primary benefit is that our data is in JSON form, and it is very fast in comparison to saving and retrieval with low latency. We don't need to write extensive queries to fetch data; we write any Couchbase Server repository, and if we add that find by ID or something similar, it will fetch everything in less time..”

Saroj Sahu

Technical Analyst at Coforge Growth Agency

[Read full review](#) 

Customer Service and Support

“Most of my support comes from my own knowledge, as I rarely contact customer support, relying instead on the comprehensive resources available on the website and forums..”

Jimd Daugherty

President at JIMD Group

[Read full review](#) 

“I have not contacted customer support for Couchbase Server because I use the community version. I am on my own and do my own project. For some other components, I always use community-based versions. That is why I have not used support..”

Anar Jafarov

Software Engineer at Halalfoodle

[Read full review](#) 

“We have a support team in our project, and they are very helpful. Whenever we encounter an issue, they immediately work to have a solution ready within 30 minutes based on severity if it is a P1 or P2 issue. We have not faced many issues with the Couchbase Server support team. We open ticket escalations, they review them, and then they fix the issue..”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

[Read full review](#) 

Other Advice

“I feel there is nothing I should improve, and I do not think about improving anything. I did not purchase Couchbase Server through the [AWS Marketplace](#). I do not have advice for others looking into using Couchbase Server. I would rate this product a 10..”

Vagner Fcoelho

Software Architect at a financial services firm with 201-500 employees

[Read full review](#) 

“The advice is that you will gain software speed. Use Couchbase Server to make your software more scalable. The interview is very good, with questions that are very direct about the product, Couchbase Server.

“I would rate Couchbase Server a ten. I have been using Couchbase Server for ten years, and it is comfortable to use. I gave this review a rating of ten..”

Dev_Dev

Software Developer at a tech vendor with 51-200 employees

[Read full review](#) 

“It is very opinionated because every other database is competing with each other and adding extra new features to be successful. That is why it is a bit hard to give some concrete opinion. My vision for this is if you are experienced enough and you need something flexible where you can enable and disable some features, by keeping key-value storage only or adding SQL++ feature, or adding views, or adding search features, or indexing, Couchbase Server is giving all flexibilities. You can always correctly define how to use memory and how to distribute computer servers' powers. I would give this product a rating of 8..”

Anar Jafarov

Software Engineer at Halalfoodle

[Read full review](#) 

“Regarding Couchbase Server's AI capabilities, I feel a bit nervous about its governance and security, particularly because some of my clients are in the military, where I prefer to have direct control over programming rather than letting AI operate independently.

“Regarding Couchbase Server's AI capabilities, I find its accuracy and reliability of output to be fine, as I haven't had any problems with it.

“My advice for others looking into using Couchbase Server is to set up a local server for better performance, especially if a fast network connection isn't available, as this improves development speed and reliability.

“I have no additional thoughts about Couchbase Server before we wrap up, other than it makes me want to visit the website to see what new updates might be available, as it's a good software that requires finding the right use case. I would rate this product an 8 out of 10..”

Jimd Daugherty

President at JIMD Group

[Read full review](#) 

“Whenever we are dealing with a dashboard, we can use time annotations to calculate performance metrics. Currently, we are using [GCP](#) as a cloud service. We can add time rotation, so if we want to check performance or method outputs, we can utilize system.current time to measure the start and end time for the query operation, which depends on the complexity of the method. Optimized methods yield results in milliseconds, while more complex queries might take longer. I cannot provide an exact estimate, as it all depends on the data complexity. Using an index for frequently accessed data can be helpful since fetching from cache is faster compared to other methods.

“I have not used Couchbase Server's AI capabilities yet. Currently, we are focused on storing and retrieving data faster with Couchbase Server, but I haven't had the chance to explore AI features.

“I haven't utilized the AI capabilities of Couchbase Server, so I'm uncertain about its accuracy or reliability in output. However, Couchbase Server can handle billions of records, fetching them within milliseconds, but without firsthand experience in AI, I cannot provide thoughts on that aspect.

“My advice for others considering Couchbase Server is to determine if the data is structured in JSON format, as it offers significantly improved facilities compared to others. I would rate this product an eight out of ten..”

Saroj Sahu

Technical Analyst at Coforge Growth Agency

[Read full review](#) 

“Couchbase Server supports distributed transactions, which ensures data integrity by supporting distributed transactions across the database. It has a decentralized architecture, which prevents single points of failure and enables seamless scaling and disaster recovery.

“If you want to adopt Couchbase Server, we should take full advantage of Couchbase Server query language, which allows developers to use familiar SQL

syntax to query unstructured and semi-structured JSON data. Leveraging JSON flexibility by designing documents into nested arrays and flattening data together can minimize multi-document joins. This is very useful for using SQL schemas with tables as collections and complex foreign keys. Couchbase Server also has a memory-first architecture that reads data directly from RAM before committing data to disk. It tunes for the active data set. I would recommend every developer to use it. It uses an autonomous operator and tests rebalancing on load. If you want to adopt Capella, there is a team that will fully manage the Capella database as a service to eliminate operational overhead. I would recommend everyone to use this.

“Couchbase Server is a high-performance NoSQL document database. We primarily use it for caching and generative AI to develop modern applications using rapid data access and offline support for offline mobile applications, along with flexible data modeling. We have used it for dynamic product catalogs, user profiles, and web applications.

“When we started using Couchbase Server, it achieved very good critical business and operational results. The major outcome is consistent microsecond to sub-millisecond response times from read and write operations during periods of concurrent requests. Couchbase Server uses a memory-first architecture, which is very easy for integrating the caching layer. Data is read from and returned to RAM before being persisted to disk.

“Couchbase Server has a security architecture that enforces strict data governance and regulatory compliance across distributed edge topology. There is TTL governance that automatically expires sensitive records natively at the document level.

“Couchbase Server version 8.8.0 has achieved a balanced combination of operational throughput and data precision up to 93% accuracy while maintaining performance.

“Couchbase Server is deployed as a database as a service in a hybrid cloud environment. I would rate this review an 8..”

Sanjukta Parida

Lead Software Engineer at a tech vendor with 10,001+ employees

[Read full review](#) 

Top Industries

by visitors reading reviews



About this buyer's guide

Thanks for downloading this PeerSpot report.

The summaries, overviews and recaps in this report are all based on real user feedback and reviews collected by PeerSpot's team. Every reviewer on PeerSpot has been authenticated with our triple authentication process. This is done to ensure that every review provided is an unbiased review from a real user.

Get a custom version of this report... Personalized for you!

Please note that this is a generic report based on reviews and opinions from the collective PeerSpot community. We offer a [customized report](#) of solutions recommended for you based on:

- Your industry
- Company size
- Which solutions you're already considering

The customized report will include recommendations for you based on what other people like you are using and researching.

Answer a few questions in our short wizard to get your customized report.

[Get your personalized report here](#)

About PeerSpot

PeerSpot is the leading review site for cloud, AI, and business software. We created PeerSpot to provide a trusted platform to share information about software, applications, and services. Since 2012, over 22 million people have used PeerSpot to choose the right software for their business.

PeerSpot helps tech professionals by providing:

- A list of products recommended by real users
- In-depth reviews, including pros and cons
- Specific information to help you choose the best vendor for your needs

Use PeerSpot to:

- Read and post reviews of products
- Access over 30,000 buyer's guides and comparison reports
- Request or share information about functionality, quality, and pricing

Join PeerSpot to connect with peers to help you:

- Get immediate answers to questions
- Validate vendor claims
- Exchange tips for getting the best deals with vendor

Visit PeerSpot: www.peerspot.com

PeerSpot

244 5th Avenue, Suite R-230 • New York, NY 10001

reports@peerspot.com

+1 646.328.1944