aws marketplace

PostgreSQL on Ubuntu

Reviews, tips, and advice from real users






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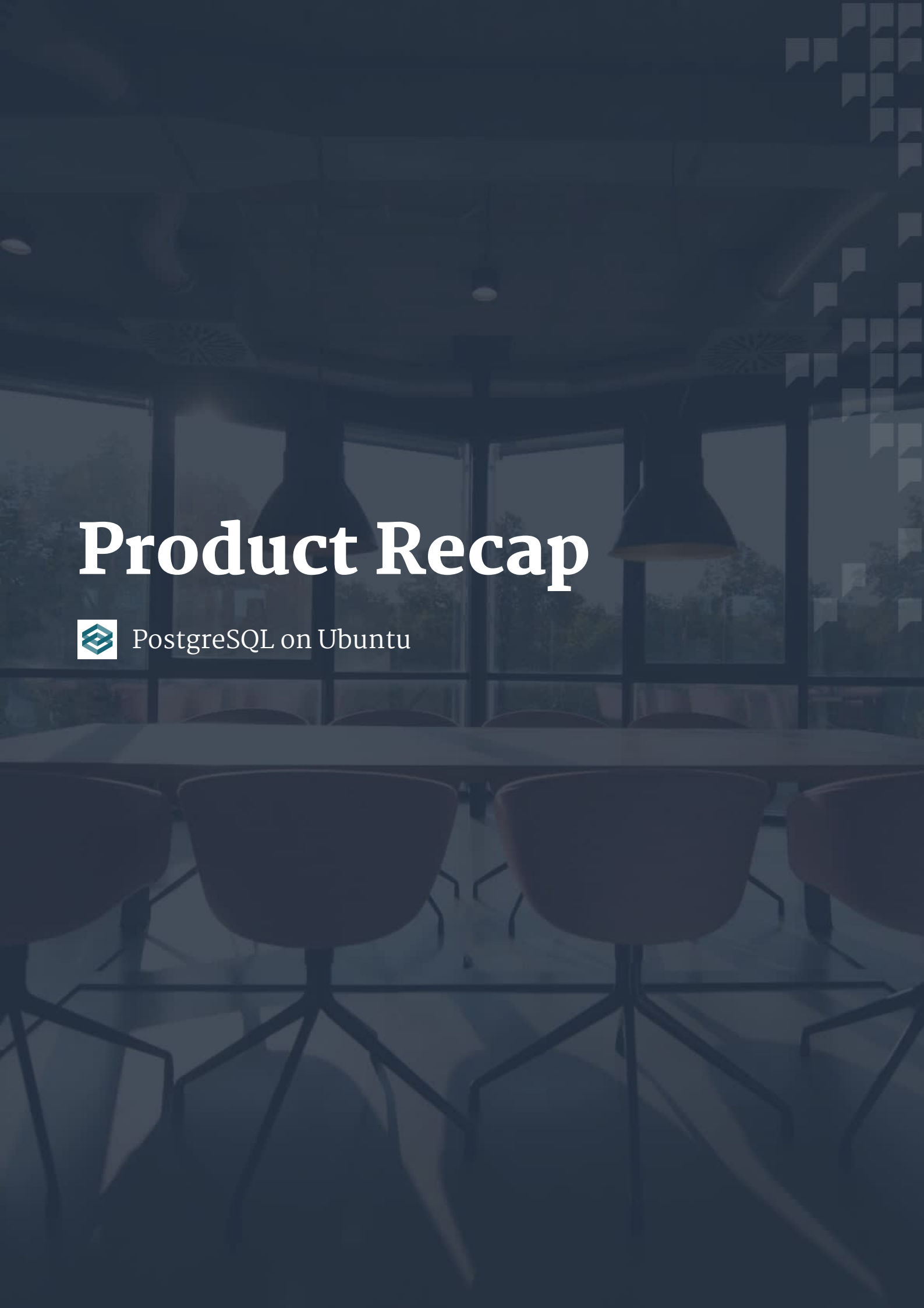

Product Recap

PostgreSQL on Ubuntu

PostgreSQL on Ubuntu Recap

PostgreSQL on Ubuntu is the #20 ranked solution in top Operating Systems for Business. PeerSpot users give PostgreSQL on Ubuntu an average rating of 8.4 out of 10. PostgreSQL on Ubuntu is most commonly compared to Rocky Linux.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

- "PostgreSQL on Ubuntu has positively impacted my organization by being the single most important factor in moving France Farms from a conceptual bio-IT project to a functional sovereign trust machine because it has credibility with international farmers and partners."

David François

Founder & Bio-IT Architect at France Farms

- "PostgreSQL on Ubuntu has positively impacted our organization because, from the initial phase with around 1,000 plus users during user accessibility testing, we defined the tables in such a manner that even with future scalability increases, it would function well, and now it has grown to 10 lakh users, still holding up well with fast data retrieval and good query performance, supported by effective indexing methods."

Pranay Jain

Senior software developer at Simplifyvms

"Overall, PostgreSQL on Ubuntu is very good, and I am genuinely impressed with how reliable and performant it was in our production environment."

Harshwardhan Gullapalli

AI Engineer at a educational organization with 51-200 employees

"The biggest benefit in PostgreSQL on Ubuntu for me is the open-source advantage, as it allows me to look into the code, understand the logic, mold my code according to it, and it will work perfectly rather than proprietary solutions where I am very much dependent on the vendor and have to wait for their next release to fix things."

Rizwan Ghzzaal

Manager Dev Ops at a tech services company with 10,001+ employees

"The good aspect about PostgreSQL on Ubuntu is the huge community support that we have."

Debarshi Banerjee

Specialist Programmer L3 at Infosys

"We have worked with various databases including SQL Server and MySQL, but I found PostgreSQL on Ubuntu to be the most cost-effective and most performance-friendly solution."

HardeepSingh1

Head of IT at Givo Pvt Ltd

"Overall, PostgreSQL on Ubuntu is a powerful and reliable database management system; it is easy to use and good for students who want to move beyond basic and industry-level skills."

Verified user

Student at a university with 501-1,000 employees

What users had to say about valuable features:

"The good aspect about PostgreSQL on Ubuntu is the huge community support that we have. PostgreSQL on Ubuntu is open source software, and different teams have contributed to open source. So it is quite robust in providing a lot of things. If you think about on-the-fly aggregations, it also supports that. Distributed clusters are also supported. It is a tool that is right now very mature and able to handle a lot of use cases. Coming from a SQL background, PostgreSQL on Ubuntu is the standard tool that we use. Most of my use cases are sometimes POCs that I need to deliver. At that point, it is a no-brainer to just use PostgreSQL on Ubuntu because of its simplicity and familiarity.."

Debarshi Banerjee
Specialist Programmer L3 at Infosys

Read full review

"The biggest benefit in PostgreSQL on Ubuntu for me is the open-source advantage. Both the open-source aspect and the very strong community support provide significant value. I can do many multiple things rather than some very tightly-locked features from products that require license purchases and waiting for feature releases. From the out-of-the-box solutions, the community is very helpful and I can get solutions much faster.

"Nowadays, with GenAI and AI tools available, there is a deposit of the entire knowledge base into one model. I get very fast support and help from GenAI as well. The biggest power for PostgreSQL on Ubuntu is the open-source aspect. Any open-source software allows me to look into the code, understand the logic, and mold my code according to it, and it will work perfectly rather than proprietary solutions where I am very much dependent on the vendor and have to wait for their next release to fix things.."

Rizwan Ghzzaal
Manager Dev Ops at a tech services company with 10,001+ employees

Read full review

"From my experience, one of the biggest advantages of PostgreSQL on Ubuntu is that it is an RDBMS that performs well based on stability, and it is quick to set up and accessible, not demanding multiple editors or support tools, making it preferable for small-end website requirements.

The performance for parallel query execution on PostgreSQL on Ubuntu is good in my project, with no troubles yet based on the use cases that we deployed.

My experience with foreign data wrappers in PostgreSQL on Ubuntu is that they can connect queries to external data sources such as databases, files, and web services, which I find convenient. With open source technologies such as Python and Perl, we can write different libraries to quickly avail these features.

I do use ACID transactions in PostgreSQL on Ubuntu, which is RDBMS compliant, and it performs perfectly well with no difficulties encountered.

I find the installation process for PostgreSQL on Ubuntu to be easy, especially when applying it to data warehouse solutions, although I have limited experience with data marts.."

SampathkumarRajasekaran
Director IT at Artizense Hub

Read full review

The best features PostgreSQL on Ubuntu offers in my experience are zero cost, because it is totally free and has no limits from any user. I can easily understand this kind of SQL. Additionally, the maximum database is free and open source, as I mentioned. It has strong performance with large datasets and huge databases, runs smoothly on Ubuntu, and remains stable across all operating systems. It supports advanced features such as JSON and XML, and provides better control.

These features make my work easier and more efficient because some databases do not support JSON. For example, SQL Server 2014 will only support XML datasets, not JSON. Nowadays, we are storing our data or extending our data with JSON files, so PostgreSQL is easy to use for these needs. Furthermore, PostgreSQL is better because it provides backup functionality such as the pg_dump utility, allowing us to easily take backups from the PostgreSQL on Ubuntu database. We can also add extensions and enhance features. Overall, PostgreSQL on Ubuntu is a powerful and reliable database management system; it is easy to use and good for students who want to move beyond basic and industry-level skills.

“PostgreSQL on Ubuntu has positively impacted my organization in terms of saving my time within my college project. It is easy to learn and understand how it is used, with easy installation and ease of use as it is a free and open-source tool, which means there is no need to pay any money or deal with licensing costs. .”

Verified user

Student at a university with 501-1,000 employees

Read full review

"The best features that PostgreSQL on Ubuntu offers for my solution include data integrity via pgcrypto. PostgreSQL on Ubuntu is not just a bucket for data; with the pgcrypto extension, it becomes a security vault. The ability to run SHA-256 cryptographic functions directly within the database engine is critical. It allows me to seal agricultural records at the point of entry, ensuring that the provenance of the produce is immutable from farm to buyer.

The stability of Ubuntu LTS kernel ensures that the system stays stable for years without breaking changes. For an IT project or a bio-IT project in the Caribbean context where hardware resources can be limited, having a lean, high-performance OS that handles PostgreSQL on Ubuntu's resource demands efficiently is a major challenge. Additionally, JSONB allows for flexible farming data. Farming data can be messy; one day I am tracking soil pH, and the next day I am tracking rainfall or GPS coordinates. PostgreSQL on Ubuntu's JSONB support allows me to store semi-structured data from different types of farm sensors without having to constantly redesign the database schema. It gives the trust machine the flexibility of a NoSQL database with the ACID-compliant reliability of a traditional SQL system.

PostgreSQL on Ubuntu has positively impacted my organization by being the single most important factor in moving France Farms from a conceptual bio-IT project to a functional sovereign trust machine because it has credibility with international farmers and partners. Using enterprise standard stacks, I can prove to global buyers that my data integrity is not just a claim; it is backed by the same architecture used by the world's largest tech firms. This has significantly lowered the trust barrier for Caribbean produce. It also enhances resource efficiency; when operating in a developing economy, I have to do more with less, and the lean nature of Ubuntu allows me to run high-performance database operations on modest hardware at the edge, reducing my overhead while maintaining a high percentage uptime for provenance records. Scaling with confidence is also key; knowing that I can seamlessly migrate my local Ubuntu and PostgreSQL on Ubuntu environment to AWS or other cloud providers as I scale is a massive strategic advantage. This allows me to build sovereign solutions locally while remaining cloud-ready for global expansion.."

David Francois
Founder & Bio-IT Architect at France Farms

“The standout features PostgreSQL on Ubuntu offers were three things. First, JSONB support was huge. Since our LLM pipeline generated semi-structured JSON outputs with extracted fields and confidence scores, being able to store and query that JSON directly in PostgreSQL on Ubuntu without needing a separate document store was a massive win. It simplified our entire architecture. Second was reliability and stability on Ubuntu. We ran PostgreSQL on Ubuntu on a Linux server in production and it was rock solid. We never had unexpected crashes or data integrity issues, even under heavy batch processing loads. The backup tooling with pg_dump also integrated seamlessly into our automated workflows, so we had confidence our data was always safe. Third, indexing and query performance was excellent. When the FastAPI backend needed to retrieve specific financial records or filter by account codes for our trial balance mapping system, queries stayed fast and consistent even as the dataset grew. That performance directly translated to a snappier experience for the chartered accountants using the system, which mattered significantly.

The impact of PostgreSQL on Ubuntu was tangible for our organization. On the reliability front, once we had PostgreSQL on Ubuntu as our structured data layer, we eliminated a lot of manual data validation work. Before that, extracted financial data had nowhere consistent to land, so it was error-prone. With PostgreSQL on Ubuntu in place, we had a clean, queryable store that made validation straightforward. On the metrics side, the full automation pipeline, which PostgreSQL on Ubuntu was central to, achieved a 70% reduction in manual data entry effort for our chartered accountant clients. Instead of manually re-entering invoice or trial balance data, the system extracted it, stored it cleanly in PostgreSQL on Ubuntu, and made it immediately available for review and mapping. That was a massive productivity gain. On cost, we also saw benefits from not needing separate document stores or complex caching layers. PostgreSQL on Ubuntu handled both structured data storage and semi-structured JSON in one place, which simplified our infrastructure and reduced operational overhead. The reliability also meant fewer debugging cycles and data recovery incidents, which translated to less engineering time spent on firefighting and more time on feature extraction.

The way I measured that 70% reduction in manual data entry was straightforward. We tracked the time chartered accountants spent manually entering financial data before and after our full automation pipeline went live. We examined a sample of their typical workflows, such as processing and trial balancing or a set of invoices, and compared how long it took them to do that work manually versus using our system end-to-end. The 70% figure came from that comparison. The system handled extraction, classification, and mapping automatically, so they only needed to do light validation rather than full manual data entry. It was not a rigorous academic study with control groups.."

Harshwardhan Gullapalli
AI Engineer at a educational organization with 51-200 employees

Read full review

Other Solutions Considered

Before using PostgreSQL on Ubuntu, I first used MySQL on Ubuntu for a different project. I switched because PostgreSQL was suited for different kinds of projects I was working on.

Verified user
Student at a university with 501-1,000 employees

Read full review

"We used to use Microsoft SQL, but it was costing us too much as the size of the database grew, which is why we switched to PostgreSQL on Ubuntu, where its internal B-tree optimization is quite good, making it sufficient for our application.."

Pranay Jain
Senior software developer at Simplifyvms

Read full review

"Before choosing PostgreSQL on Ubuntu, I evaluated other options; specifically, I compared it with NoSQL, namely MongoDB, for its flexibility with unstructured agricultural sensor data, and SQLite for the edge nodes on the farms due to its zero configuration setup. While SQLite is great for small tasks, it lacks the enterprise security features and powerful pgcrypto extension required.."

David François
Founder & Bio-IT Architect at France Farms

Read full review

"I was just looking at a service called ClickHouse. ClickHouse also has a different type of database. It is a clickstream analysis database. What we are trying to do is instead of Prometheus, we are thinking of using ClickHouse in our project because of how fast it is. Under the hood, it does a different type of operations to do aggregations, sums, and other operations. Since it is a SQL-based query system, the familiarity is there.."

Debarshi Banerjee
Specialist Programmer L3 at Infosys

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"The main differences of PostgreSQL on Ubuntu in comparison to other competitors involve ACID compliance, where non-relational databases have made strides. However, non-relational databases often have sharding available by default, making them more comfortable for dividing information. They also tend to be faster and fit for blob storage, but it's not the best way for storing files, as I prefer dedicated storage solutions such as S3 or Azure Blob Storage.."

Roman Pryimuk
Kotlin Developer at Capgemini Engineering

Read full review

"Before PostgreSQL on Ubuntu, I worked with MySQL and SQL Server.

"We switched from MySQL to PostgreSQL on Ubuntu because PostgreSQL was giving us the features that we needed for free. If you have a paid solution that works well and you have a free solution that also works well, the obvious choice is the free solution because it works very well and it is free.."

HardeepSingh1
Head of IT at Givo Pvt Ltd

Read full review

ROI

Real user quotes about their ROI:

I have seen a return on investment because if someone purchases the functionality, they will find it investable due to the many features it provides and the overall better product. However, as I have not done any purchasing myself, I cannot say it is perfect; I can say it is better based on what I am aware of.

Verified user
Student at a university with 501-1,000 employees

Read full review

"Regarding ROI from PostgreSQL on Ubuntu, I find it manageable, with it being affordable from a cost standpoint, although support may require additional variants depending on solution dependencies.."

SampathkumarRajasekaran
Director IT at Artizense Hub

Read full review

"The return on investment with PostgreSQL on Ubuntu is very good compared to commercial databases such as Oracle or Microsoft SQL due to zero licensing cost and lower infrastructure costs, making it about 40 percent less expensive than licensed enterprise databases, and since there are no upfront licensing fees, the ROI is increased with a scalable system without exponential cost growth.."

Pranay Jain
Senior software developer at Simplifyvms

Read full review

"I have seen a return on investment from using PostgreSQL on Ubuntu with a reduction in infrastructure cost; Ubuntu LTS is relatively free, allowing me to avoid the high monthly managed service fees from proprietary database platforms. This enables me to funnel my limited capital directly into R&D and soil science. There is also 100 percent data integrity with no licensing fees. Fewer employees are needed because this was bootstrapped for one person, so I did not need to hire a large team for a startup such as this.."

David François
Founder & Bio-IT Architect at France Farms

Read full review

"PostgreSQL on Ubuntu is open-source, and I have not spent a single penny other than the infrastructure on which it is hosted. If I look into the market, I have very heavy products, and even MySQL is also open source, but PostgreSQL on Ubuntu gives me a lot of savings in terms if I were to go to any other vendor which has a license. The ROI is significant because I am not paying a single penny for the product itself, but only for the underlying infrastructure.."

Rizwan Ghzzaal
Manager Dev Ops at a tech services company with 10,001+ employees

Read full review

"ACID transactions basically talk about write queries. Basically, if it is a distributed system, it makes sure that transaction consistency is there on each of the transactions that is happening. Think about if you are in a different geographic location and your cluster is hosted in two different geographic locations, maybe one in South Pacific and one in Western Europe. In both cases, if write transactions are happening, this is a good way to basically order the transactions so that the eventual data consistency is there.

"With the basic version, you can very quickly do POCs. That is a very good ROI for that because suppose you have to do a demo in one week and you want to just quickly bootstrap some services and get the solution up. It is a very good service to do that. However, with different use cases, maybe different solutions are better. If you are going for an e-commerce solution where you have multiple filters available and you have to show aggregation, then a different type of query and a different type of database is needed.."

Debarshi Banerjee
Specialist Programmer L3 at Infosys

Read full review

Use Case

"I am working with PostgreSQL on Ubuntu as a consultant. I have been using PostgreSQL on Ubuntu from the open-source perspective. I have not used any license with PostgreSQL.."

Rizwan Ghzzaal
Manager Dev Ops at a tech services company with 10,001+ employees

Read full review

"As a user of PostgreSQL on Ubuntu, I work as a partner deploying the system while we design the particular system and deploy it using PostgreSQL on Ubuntu, which is a good fit in that way. PostgreSQL on Ubuntu is used primarily for a website, and the major case was only one time for small data marts for analytical purposes based on the website requirement. I have compared PostgreSQL on Ubuntu to solutions like SQL Matrix, which has a smaller variant, although I am trying to recall the exact name.."

SampathkumarRajasekaran
Director IT at Artizense Hub

Read full review

"My main use case for PostgreSQL on Ubuntu is as the backbone of an agricultural provenance system called France Farms, with the primary goal of creating a trust machine for smallholder farmers in the Caribbean. I use PostgreSQL on Ubuntu to store critical agricultural data such as soil metrics, harvest origin, and chemical records. To ensure the data is tamper-proof, I implement cryptographic hashing such as SHA-256. This allows me to anchor a digital fingerprint to every physical asset, providing an immutable audit trail that can be verified by international buyers. Ubuntu LTS provides the stable open-source environment required to run these high-integrity database operations reliably at the edge.."

David François
Founder & Bio-IT Architect at France Farms

Read full review

"I am currently working with Prometheus for observability on top of a platform, making Prometheus my main tool. In my past project, I used Contentful as a headless CMS for content delivery.

"I use standard Postgres and Prometheus in my current project, with no other tools of that sort for other use cases. The choice of database depends on the project, but mostly for any POC that I do, I choose Postgres because of its simplicity. In the AI world, it has pgvector, an index store that is good for RAG systems.

"Basically, a transaction DB in our application as well as a vector store for our RAG pipeline is my central use case.."

Debarshi Banerjee
Specialist Programmer L3 at Infosys

Read full review

My main use case for PostgreSQL on Ubuntu is for storing the database, and I'm using Ubuntu because it is open source. Like multiple operating systems, it will support it because one of my friends and teammates has a MacBook. So, we cannot use the normal one.

A specific example of how I use PostgreSQL on Ubuntu in my work is in my project titled a student management and faculty leave student rating management system and faculty leave management system. Here I am working on a project where students are applying, students can give ratings for the faculties, and faculties can apply for leave applications for the admin side or as their upper faculty. I am storing the SQL data, such as creating the tables and this kind of data in PostgreSQL. As I mentioned, my friend's laptop is a MacBook, so we are creating PostgreSQL on Ubuntu. During my internship, I used PostgreSQL to handle structured data and perform operations such as joining, indexing, and data retrieval. I find it very stable and efficient when working with a large database. Additionally, there is no limit for the operating system because it is supported in all operating systems, with maximum database being unlimited RAM and unlimited database size. The license is open source, so it is easy to use. Installation is straightforward, and I can access the database easily. We can also create our own user and database. We can easily manage the database, and we can use NoSQL data as well. .”

Verified user

Student at a university with 501-1,000 employees

Read full review

"The primary use case for PostgreSQL on Ubuntu is storing and managing structured financial data extracted from scanned documents through our AI pipeline. When we processed an invoice or a trial balance through our OCR and LLM system, PostgreSQL on Ubuntu became the persistent layer where all that extracted data lived, including account codes, amounts, dates, and confidence scores from all the models. The FastAPI backend would query PostgreSQL to retrieve those records, and chartered accountants would use them in the system to validate and map those extracted line items. If someone needed to trace where a particular account entry came from, PostgreSQL had the complete audit trail and raw extracted data ready to query.

PostgreSQL on Ubuntu integrated seamlessly with the rest of our stack. We used it alongside n8n automation workflows running on Docker, and those n8n instances would write processed data directly into PostgreSQL tables. The database became their central hub where financial data flowed through multiple stages of the pipeline, from initial extraction through LLM classification, through trial balance mapping, all the way to final storage. We also leveraged PostgreSQL on Ubuntu's JSONB columns quite extensively since our LLM outputs were semi-structured JSON. Being able to store those flexible JSON objects directly in the database without needing a separate document store was invaluable. It simplified our architecture and made querying and data retrieval much more straightforward when we needed to filter or aggregate results for reporting.

PostgreSQL on Ubuntu is deployed on-premises on Hostinger in our organization.."

Harshwardhan Gullapalli
AI Engineer at a educational organization with 51-200 employees

Read full review

Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

The initial setup is quite easy to install, with the documentation being very well-organized. We do it ourselves without needing external technical assistance.

Naresh Modhwadia Read full review

Software Engineer at Government of India

"I find the installation process for PostgreSQL on Ubuntu to be easy, especially when applying it to data warehouse solutions, although I have limited experience with data marts.."

SampathkumarRajasekaran Read full review

Director IT at Artizense Hub

“Regarding pricing and setup costs for PostgreSQL on Ubuntu, I do not have much information about pricing, but the initial setup was very easy, with the more tedious aspects appearing later during scaling; licensing is simple since it is open-source..”

Pranay Jain

Senior software developer at Simplifyvms

Read full review

“In the very beginning of my learning path, I faced some difficulties in setting up PostgreSQL on Ubuntu, but now it's clear how it works. I know all the steps to make it work: creating databases, making users, providing rules, and creating tables..”

Roman Pryimuk

Kotlin Developer at Capgemini Engineering

Read full review

"The installation and deployment process of PostgreSQL on Ubuntu is very straightforward. I have automated it and I know that it is not about MySQL, but both of them have a very similar installation process. The main difference is the commands on how you manage MySQL and how you manage PostgreSQL on Ubuntu.."

Rizwan Ghzzaal

Read full review

Manager Dev Ops at a tech services company with 10,001+ employees

"I found the process of setting up PostgreSQL on Ubuntu, along with the pgcrypto extension, to be straightforward, but it required a subtle understanding of the Linux command line interface. Using APT to manage the installation and updates is seamless. The repository system makes it easy to get stable, tested versions of PostgreSQL on Ubuntu that I need for a production environment. The challenge, or the real learning curve, was in the permissions and configuration. Managing the pg_hba.conf file to secure remote access while ensuring the PostgreSQL on Ubuntu user has the right ownership of the data was a hurdle. Understanding how Ubuntu handles systemd services for PostgreSQL on Ubuntu was key. Once I understood how to use systemctl to manage the database lifecycle properly, the setup became very reliable. I also received some help from artificial intelligence, which was very helpful for me.."

David François

Read full review

Founder & Bio-IT Architect at France Farms

Customer Service and Support

"The customer support for PostgreSQL on Ubuntu is quite responsive. When I needed help with my vector search, I contacted them, and they provided substantial assistance.."

Harshwardhan Gullapalli
AI Engineer at a educational organization with 51-200 employees

Read full review

"Regarding technical support for PostgreSQL on Ubuntu, there is a need for quick support services when the solution is not built well, and community support is usually helpful in addressing queries and finding solutions to various scenarios.."

SampathkumarRajasekaran
Director IT at Artizense Hub

Read full review

"I have not needed customer support for PostgreSQL on Ubuntu yet, but because I use Ubuntu LTS, I still have access to the Ubuntu Advantage knowledge base and the Ask Ubuntu community. If a security patch is needed for the OS, it is pushed automatically. PostgreSQL on Ubuntu also has some of the most detailed technical documentation in existence.."

David François
Founder & Bio-IT Architect at France Farms

Read full review

Other Advice

I would add that compared to other tools, PostgreSQL is perfect. It is open source and free, has strong performance, and good stability. It has advantages for JSON, XML, indexing, and is better for stored procedures and triggers while being good for real-world applications in large datasets and backend development.

My advice for others looking into using PostgreSQL on Ubuntu is that if you need to store structured and non-structured data while utilizing modern features, you can use PostgreSQL because it is perfect for storing databases, especially when handling JSON and XML files. It is simply the best. I would rate my overall experience with PostgreSQL on Ubuntu as an 8 out of 10. ."

Verified user
Student at a university with 501-1,000 employees

Read full review

"There is nothing related to extensions, security, or integration that I would like to mention.

"My advice to others considering PostgreSQL on Ubuntu is to spend time learning how to tune the application to fit your performance and scalability needs; the earlier you do this, the easier it will be.

"I would rate this product an 8 overall.."

Francisco Javier Vergara
SecOps Engineer at IriusRisk

Read full review

"Regarding BRIN indexes in PostgreSQL on Ubuntu, I have not used them for large data sets.

I have purchased solutions from AWS Marketplace depending on various customers, and I may have bought one or two solutions specifically related to PostgreSQL on Ubuntu in the past, though I do not clearly remember.

In fast development scenarios, we often use application lab models where we try out various combinations, helping us understand the scaling needs for PostgreSQL on Ubuntu and other deployments.."

SampathkumarRajasekaran
Director IT at Artizense Hub

Read full review

"On the integration side, PostgreSQL on Ubuntu played well with our broader tech stack. The async driver we used, asyncpg, integrated smoothly with FastAPI, so our backend could handle concurrent requests efficiently without blocking on database calls. That was important when we were processing multiple documents in parallel. On extensions, we did not lean heavily into custom PostgreSQL on Ubuntu extensions, but the fact that they are available and well-maintained is reassuring for future use cases. On security, the role-based access control and pg_hba.conf gave us fine-grained control over who could access what, which was critical when handling sensitive financial data for chartered accountants. We could lock down access per application user and audit everything. PostgreSQL on Ubuntu's strong ACID compliance meant we could trust data consistency, which is non-negotiable when dealing with financial records where accuracy is essential.

I give PostgreSQL on Ubuntu a rating of 8 out of 10. I chose this rating because there are improvements needed, such as native vector similarity search and smoother monitoring and observability experience on Ubuntu, particularly for developers who are not dedicated database administrators.

My advice to others looking into using PostgreSQL on Ubuntu would focus on connection pooling documentation and tooling, which is quite good. If you are building an AI or LLM-based application that produces structured or semi-structured data, which is increasingly common, PostgreSQL on Ubuntu is a genuinely strong choice. It is production-grade, battle-tested, and it handled our financial document processing workloads extremely well. My advice would be to use JSONB columns early if your outputs are schema-flexible, set up connection pooling with pgBouncer from day one, and if you need semantic search, combine PostgreSQL on Ubuntu with a vector database such as Pinecone rather than trying to consolidate everything into one system.

Also, automate your backups with pg_dump as part of your CI/CD setup from the start. Overall, PostgreSQL on Ubuntu is very good, and I am genuinely impressed with how reliable and performant it was in our production environment. It scaled well for our use case. As our document volume grew over time, PostgreSQL on Ubuntu handled increased load without requiring major architectural changes. Proper indexing and query optimization kept performance consistent, and the fact that it runs efficiently on Ubuntu meant we could scale vertically by adjusting server resources without changing much in our application layer. For teams expecting data growth, which is almost inevitable in AI-driven document processing, PostgreSQL on Ubuntu is an excellent choice.."

Harshwardhan Gullapalli
AI Engineer at a educational organization with 51-200 employees

Read full review

"PostgreSQL on Ubuntu can be used for holding the data from the apps, helping with the logic, and retrieving the data, serving the data of clients, customers, and the user base. That is the main reason. PostgreSQL is a relational database. However, if there is something which is a non-relational database, a non-structured one, it goes to NoSQL options like MongoDB or DynamoDB in AWS.

"The best advantage in PostgreSQL on Ubuntu is its flexibility for the users, for the developers actually. They are very much comfortable in designing the schemas. For me, it is very much flexible for maintaining the backups, the clusters, and running smooth operations. PostgreSQL on Ubuntu is very much flexible.

"From the developer side, they are the ones that are using these features from PostgreSQL on Ubuntu. I am using it from the operational point of view: backup, security, and hosting it on a server or on the cloud. That is what my job is.

"The performance for PostgreSQL on Ubuntu is very good and it is optimized. It gives me leverage of handling more queries at a time and speeds up the process.

"There are features from the developer side regarding foreign data wrappers in integrating disparate data sources.

"Since I am using PostgreSQL on Ubuntu in a very specific niche like maintenance, management, and backups, there is a very less chance I will find something negative about it because so far what I have used in the projects, I needed a thing and I needed a solution and it was there already. Everything was there already and it was smooth. However, more or less developers are the right person that can say this is a must-have feature that they miss in PostgreSQL on Ubuntu.

"I have deployed a solution on AWS cloud with PostgreSQL on Ubuntu. I would rate this review as highly positive based on my extensive experience and satisfaction with PostgreSQL on Ubuntu.."

Rizwan Ghzzaal
Manager Dev Ops at a tech services company with 10,001+ employees

Read full review

"The decision to use cryptographic hashing in my system was driven by a lack of transparency in traditional agricultural supply chains. In the Caribbean, smallholder farmers often struggle to prove the origin and quality of their produce to international buyers. The particular challenge was creating an immutable audit

trail without requiring expensive, high-bandwidth blockchain infrastructure at the farm level. By using SHA-256 hashing within PostgreSQL on Ubuntu, I can generate a unique digital fingerprint for every harvest record at the point of entry. This ensures that if a middleman or a rogue actor tries to tamper with the data, such as changing the organic status or the harvest date, the hash will no longer match. It turns a standard database into a trust machine, giving local farmers the sovereign proof they need to compete in global markets.

The primary feature I wish existed for PostgreSQL on Ubuntu is a native provenance layer for blockchain-light anchoring. This would be an Ubuntu service that can automatically anchor PostgreSQL on Ubuntu hash stamps to a public or private ledger. AI-driven integrity audits are also necessary; a built-in Ubuntu tool that utilizes machine learning to scan PostgreSQL on Ubuntu records for anomalies or inconsistent patterns in my agricultural data would serve as an automated digital inspector for stakeholder farmers, catching errors or fraud before the produce leaves the farm. Additionally, a hardware-level root of trust, such as binding the database master key to a physical hardware chip on an edge device, would guarantee that the data remains sovereign and cannot be moved or decrypted if the hardware is stolen from a rural farm site.

The most important thing for me is the synergy between the Linux kernel and PostgreSQL on Ubuntu. In a bio-IT context, especially when dealing with physical assets such as soil and harvest, the database cannot be a black box. Because I am running PostgreSQL on Ubuntu, I have total visibility into how the system handles hardware via Udev, how it manages file systems, and how it secures the data at rest. This full-stack transparency is what makes a sovereign trust machine possible. It allows a developer in a developing country or a developing economy to build enterprise-grade security that can be verified globally. If someone wants to build for the edge, where trust is the primary currency, PostgreSQL on Ubuntu is the only choice.

My advice for anyone looking to deploy PostgreSQL on Ubuntu for high-integrity projects is to first master the command line interface; this means not relying on GUI wrappers. Understanding how to manage PostgreSQL on Ubuntu via the

Ubuntu terminal and focusing specifically on systemd for service management and file permissions for data directories grants true sovereign control. Lean into the extensions; do not treat PostgreSQL on Ubuntu as a basic SQL bucket. Explore extensions such as pgcrypto for cryptographic hashing and JSONB for semi-structured data; these features will enable building complex trust machines without needing additional expensive middleware. Prioritize security at the edge; if building for the real world such as agricultural IT, focusing on the synergy between the Ubuntu kernel and the database is crucial. Understanding how the OS handles hardware triggers will help automate data entry and secure the root of trust at the physical layer. Lastly, build for the cloud, but stay sovereign; start development on a local Ubuntu LTS instance to learn the configuration deeply. Once the local environment has been mastered, migrating to AWS RDS becomes a seamless strategic move rather than a technical hurdle. I would rate my overall experience with PostgreSQL on Ubuntu at a nine out of ten..”

David François
Founder & Bio-IT Architect at France Farms

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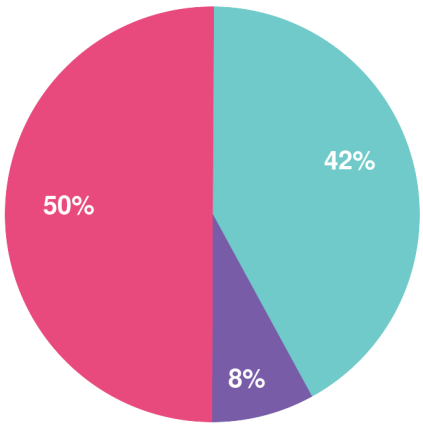

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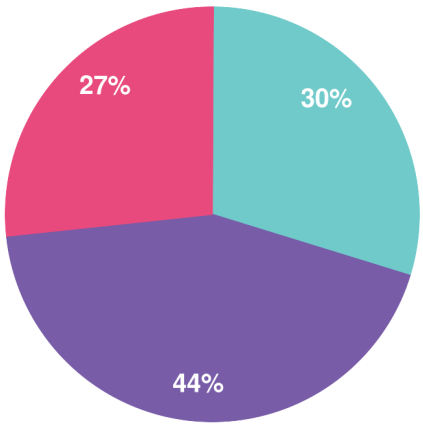

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