

The limitless potential of an **open source database**

A scalable, reliable and secure database like Postgres plays an integral role in digital transformation



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EDB

Organizations in pursuit of digital transformation have long found that open source technology is the best answer. Ever-expanding volumes of data are a key driver of that transformation, and to succeed, the government needs database solutions that are easily adaptable and highly compatible — central features of open source technology.

One of the greatest strengths of open source databases is the community that builds them. It is made up of experts and enthusiasts worldwide who are always working to improve the solution. In particular, government agencies that want to modernize and/or migrate their database management system should consider Postgres, the world's fastest growing and most popular open source database.

The Postgres relational database has been in active development for 35 years. It offers a massive leap forward in terms of flexibility and performance, and it provides significant differentiators that drive innovation. For example, it supports

more enterprise applications than any other open source database and easily integrates with a wide variety of tools to ensure workflow continuity. Furthermore, the high level of flexibility that Postgres boasts is essential for making the most of government data.

Proper planning and due diligence

One of the most important elements of any database migration is ensuring that proper planning and due diligence have been performed to ensure a smooth and successful deployment. In addition, there are some key considerations agencies should keep in mind when moving to open source databases.

It is essential to start with a clear understanding of the business case and objectives for adopting an open source approach. Agencies also need to decide how the database should function and what it should do to support their digital transformation. Then they must choose the optimal method to deploy the database. The

process involves exploring a variety of options to determine what works best for that particular agency.

Finally, agencies will need to assemble a team of in-house and possibly third-party experts to help with the transition and develop a strategy for dealing with downtime and business continuity while data is being transferred from the old system to the new one.

A vibrant and fast-growing community

Securing any database, whether it is on premises or in the cloud, requires ongoing vigilance and adherence to protocol. Developing a backup and recovery plan is also critical, along with ensuring complete visibility into where data resides and who is accessing that data.

Open source databases do not interfere with agencies' ability to achieve their security tenets, and when agencies choose enterprise open source solutions, they benefit from enhanced security. For example,

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EDB Postgres is built on top of the open source Postgres, and our solution offers additional testing and support for critical maintenance while also adhering to applicable federal information security standards.

EDB is proud to be one of the leading contributors to the vibrant and fast-growing Postgres community. We deliver Postgres products, services and support on-premises, in containers

and in the cloud so that anyone — from database administrators and developers to DevOps managers — can use those tools to create and manage a wide range of applications. Our solutions help agencies minimize the costs associated with migrating from legacy databases, replatform to cloud environments and containers more efficiently, and develop more scalable, secure applications.

Our enterprise-class software and services enable government agencies to harness the full potential of Postgres to drive digital transformation and innovation. ■

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With transformative tech like Postgres, the possibilities are limitless for Government.

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