splendiddata

Splendid Data white paper

PostgresPURE: 100% open source supported PostgreSQL, valuable for any type of organization

PostgresPURE highlights

This white paper is a working document that is subject to review and changes.
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Contents

Introduction 3

About PostgresPURE

PostgresPURE 4

How is it composed?

PostgresPURE components

Benefits of PostgresPURE

Release strategy and timing

PostgresPURE support

Contact 11

Ready to experience the benefits of PostgresPURE?

Introduction

About PostgresPURE

PostgresPURE is cutting-edge software valuable for any type of organization using PostgreSQL (community version) as its core. By adding additional proven open source components to this, it offers you a very secure, highly available and future-proof 100% open source PostgreSQL database environment.

PostgreSQL is a powerful, open-source object-relational database system that has been actively developed for over 30 years and has built an excellent reputation for reliability, robustness, performance, and innovation. In addition, PostgreSQL is increasingly becoming the de facto standard when it comes to sovereignty and AI.

In addition to being a very robust database, there's always a need for standard proven software components in a database environment for administration, backup/recovery, high availability, partition management and more. To make all these tasks effortless, we developed PostgresPURE.

PostgresPURE is 100% open source and contains besides PostgreSQL a set of open source components that makes it possible to set up a database environment that can compete with your Oracle database environments, or be even better. This means no more complicated license and maintenance contracts, no more restrictions regarding deployment and no vendor lock-in. Just 100% freedom.

PostgresPURE is fully equipped and is available on a subscription basis with 24-7 SLA technical support, in combination with a steady and predictable release policy.

MIGROS (Switzerland)

pinkroccade TSS LOCAL GOVERNMENT (Netherland)

vodafone (Germany)

Pebble IT (Oceania partner)

S V B (Dutch Social Security Bank)

epylon (US)

SSC-ICT Ministerie van Binnenlandse Zaken en Koninkrijksrelaties (Dutch Ministry of Internal Affairs)

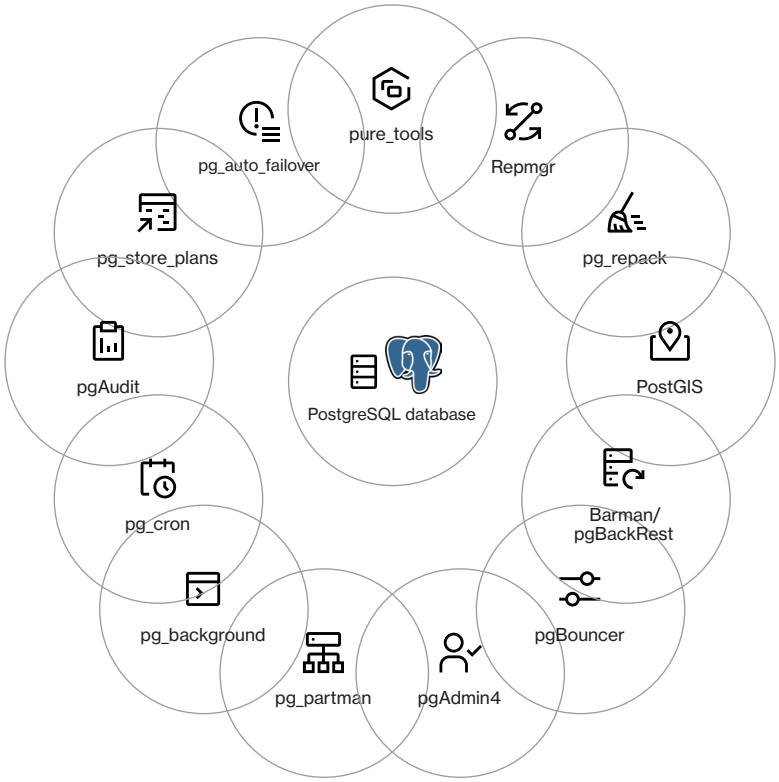
kpn (Dutch Telecom)

Some of our references that are convinced of what we promise and deliver

PostgresPURE

How is it composed?

PostgresPURE has been developed to provide you with as much functionality as possible on the basis of convenience and ease of use. This is then combined with premium support and release management.



PostgresPURE components

PostgresPURE is a subscription-based product. All components are 100% open source (free of charge) and in essence you only pay for the premium support and the release management. This is why the costs are just a fraction of what you are used to with your Oracle databases, where you have to pay one-off license fees and yearly maintenance fees.

Using our subscription model, you have access to our repo (via a certificate) in order to download the desired PostgresPURE release. In addition to the repo, in which the latest versions of PostgresPURE are available, there is also our archive. In this archive all the previous releases of PostgresPURE that we still support, are available to download.

Should you encounter any problems with PostgresPURE, we are available 24-7 through our online Splendid Data Help Center. You create a ticket and one of our experts will contact as soon as possible as defined in your SLA.

Support is a broad concept for us. We put our knowledge of PostgreSQL and all other components that are part of PostgresPURE at your disposal. It's why you also get access to the Splendid Data wiki. In this wiki you can find a lot of information to get the most out of PostgresPURE. Added to this, you can always ask our experts via the online Splendid Data Help Center for support. They are always on hand to answer all your queries.

PostgresPURE components

PostgreSQL database
The world's most advanced open source relational database.

pgAdmin4
A powerful database management tool built for ease of use.

pgBouncer
A leading connection pooler for setting up highly redundant environments.

pgAudit
A detailed session and/or object audit logging via the standard PostgreSQL facility.

Repmgr
A highly trusted replication and failover manager for PostgreSQL server clusters.

Barman/pgBackRest
Robust backup and recovery managers for planning backup and disaster recovery.

PostGIS
Provides spatial objects for storing information about location and mapping.

pg_background
Allows user to run arbitrary command in a background worker.

pg_repack
Removes bloat from tables and indexes to keep your database performing.

pg_partman
Creating and managing both time-based and serial-based table partition sets.

pure_tools
Shell scripts make your PostgreSQL life even easier.

pg_auto_failover
For monitoring and managing automated failover for a PostgreSQL cluster.

pg_cron
A simple job scheduler that enables you to add scheduled jobs to a database and execute SQL commands directly froma job.

pg_store_plans
For tracking execution plan statistics of all SQL statements executed by a server.

Benefits of PostgresPURE

- **Freedom** PostgresPURE is 100% open source to avoid any vendor lock-in. The licenses of all components are checked to prove they all are open source licensed and cannot cause any vendor lock-in.
- **Standardisation** PostgresPURE is setup to make it possible for you to maintain a standard for PostgreSQL and associated components, to prevent sprawling, and to allow you to stay in control.
- **Premium support** With a PostgresPURE subscription we guarantee 24-7 premium SLA-based technical support from our experts via the Splendid Data Help Center.
- **Release Management** Open source software means updates at the speed of innovation. Besides PostgreSQL, PostgresPURE consists of all kinds of components, each with their own release cycle. Splendid Data checks for every major and minor release of PostgreSQL to ensure these components remain in sync with PostgreSQL and the release policy of the PostgreSQL community.
- **Well tested** To provide you with a high quality product, PostgresPURE is thoroughly tested for both Intel x86_64 and IBM Power and for the different Linux versions. Splendid Data has test robots in place to check the configuration, the ability to install, the set-up (PostgreSQL in combination with each tool/component and as a whole) and the functionalities.
- **Simplified installation** Your desired version of PostgresPURE can be downloaded from a central location (repo) via certified access. The scripts that take care of the installation of PostgresPURE create an unambiguous and consistent directory structure. Do you need an older version of PostgresPURE? This is taken care of through our PostgresPURE archive – where previous versions can be found.
- **Access to extensive knowledge** To get the most out of your PostgresPURE subscription you will get access to our extensive knowledge of PostgreSQL and all the components that are included in PostgresPURE. Access to this extensive knowledge is provided via our external wiki, reference documentation and the Splendid Data Help Center.
- **Speed of innovation** PostgreSQL becomes more and more a de-facto standard as a proven open source, object-relational database system. The speed of innovation accelerates within communities closely connected to PostgreSQL community. Very frequently, interesting new components become available that add yet more functionality to PostgreSQL and the ecosystem around PostgreSQL. At Splendid Data, we always keep an eye on these developments to assess if PostgresPURE should be extended to provide you with an even better product.
- **Flexibility** PostgresPURE can be deployed on bare metal or virtualised, and on premise or in the cloud (IaaS). All the flexibility you could need.

Release strategy and timing

The PostgreSQL community releases a major version of PostgreSQL once a year, usually at the end of September or beginning of October. Splendid Data starts preparing PostgresPURE as soon the first release of a new major (“x.0”) is available.

Around 6 weeks after a new major release, the first minor release (“x.1”) becomes available and also the new minor releases of the previous releases supported by the PostgreSQL community. Around 2 weeks after the first minor release of PostgreSQL we’ll have the new major release of PostgresPURE available. The new major release of PostgresPURE contains the first minor release of PostgreSQL. In a timeframe of around 6-8 weeks a new minor version of PostgresPURE is published with all additional components updated to the latest applicable version.

As you can see, PostgresPURE is in-sync with the regular release cycle of the PostgreSQL community. Every quarter we have the new minor versions of PostgresPURE available and if needed, new additional components.

Components	V9.23	V10.18	V11.14	V12.10	V13.4
PostgreSQL	14.24	15.19	16.15	17.11	18.6
Barman	3.19.1	3.19.1	3.19.1	3.19.1	3.19.1
Repmgr	5.5.0	5.5.0	5.5.0	5.5.0	5.5.0
pgBouncer	1.25.2	1.25.2	1.25.2	1.25.2	1.25.2
pgAudit	1.6.3	1.7.1	16.1	17.1	18.0
PostGIS	3.6.4	3.6.4	3.6.4	3.6.4	3.6.4
pgAdmin4	9.16	9.16	9.16	9.16	9.16
pgBackrest	2.59.0	2.59.0	2.59.0	2.59.0	2.59.0
pg_background	2.0.2	2.0.2	2.0.2	2.0.2	2.0.2
pg_repack	1.5.3	1.5.3	1.5.3	1.5.3	1.5.3
pg_partman	5.5.0	5.5.0	5.5.0	5.5.0	5.5.0
pure_tools	2.13	2.13	2.13	2.13	2.13
pg_store_plans	1.6.1	1.7.0	1.8.0	1.9.0	1.10.0
pg_auto_failover	2.2.0	2.2.0	2.2.0	2.2.0	-
pg_cron	1.6.7	1.6.7	1.6.7	1.6.7	1.6.7

PostgresPURE versions

Operating System	Architectures	v9	v10	v11	v12	v13
Red Hat - RHEL 8	X86_64 and ppc64le	√	√	√	√	√
Red Hat - RHEL 9	X86_64 and ppc64le	√	√	√	√	√
Red Hat - RHEL 10	X86_64	√	√	√	√	√
Red Hat - RHEL 10	ppc64le	X	X	X	X	X
SUSE - SLES 15	X86_64 and ppc64le	√	√	√	√	√
SUSE - SLES 16	X86_64	√	√	√	√	√
Rocky Linux 8	X86_64	√	√	√	√	√
Rocky Linux 8	ppc64le	X	X	X	X	X
Rocky Linux 9	X86_64	√	√	√	√	√
Rocky Linux 9	ppc64le	X	X	X	X	X
Rocky Linux 10	X86_64	√	√	√	√	√
Rocky Linux 10	ppc64le	X	X	X	X	X

Other Linux flavours: on request.

Rocky 9 ppc64le releases are planned in the future.
Red Hat 10 and Rocky 10 ppc64le releases are planned in the future.

PostgresPURE platforms

Current version	1st Release	Supported till
v9	December 2021	November 2026
v10	December 2022	November 2027
v11	December 2023	November 2028
v12	December 2024	November 2029
v13	January 2026	November 2030

PostgresPURE release support policy

Support

Our Support Services consist of the following elements:

- **Installation support** Splendid Data provides you with the necessary information for installation of PostgresPURE.
- **Support documentation** Splendid Data provides you with the support documentation for PostgresPURE.
- **Splendid Data Help Center (SDHC)** Splendid Data makes its SDHC available to you and provides you with the necessary information on how to use it.
- **Incident management** In case of an incident with respect to PostgresPURE, you report the incident to Splendid Data, using the SDHC. You'll need to determine the incident level using SDHC in accordance with the following criteria:

Blocker levels

Blocker (level 1)

An incident that directly affects the continuation of work in a production environment, such as loss of production data and the non-functioning of the production environment. You cannot work with the application any longer due to the malfunctioning of the PostgreSQL database and/or one or more of the other components of PostgresPURE.

Critical (level 2)

An incident with the environment in which the operation of the PostgreSQL database and/or one or more of the other components of PostgresPURE in production environment is reduced severely and which has a large impact on (parts of) your business processes.

Major (level 3)

In the production environment: an incident that has no critical impact on your work in a production environment. You can continue working with the PostgreSQL database and the other components of PostgresPURE.

In the development environment: an incident that prevents you from working in your development environment any longer or migrating a tested PostgreSQL database into a production environment.

Minor (level 4)

In the production environment: error messages or warnings with no or negligible functional impact on your work in a production environment.

In the development environment: an incident that has no critical impact on your work in your development environment. You can continue working with the PostgreSQL database and the other components of PostgresPURE.

Trivial (level 5)

Reporting a documentation error or in textual description shown in the command line interface of the PostgreSQL database or any other components of PostgresPURE.

Service Levels

Splendid Data reacts and responds to any incident reported during the following service hours and within the following reaction and response times:

Service hours	Monday to Sunday, including public holidays in the country where End User is located, from 0.00 through 23.59	
Reaction and response times	**Initial response within:**	**Ongoing response within:**
Blocking (level 1)	1 hour, via SDHC	1 hour via SDHC or as otherwise agreed in writing
Critical (level 2)	2 hours, via SDHC	4 hours via SDHC or as otherwise agreed in writing
Major (level 3)	2 hours during Business Hours, via SDHC	4 hours during Business Hours via SDHC or as otherwise agreed in writing
Minor (level 4)	4 hours during Business Hours, via SDHC	8 hours during Business Hours via SDHC or as otherwise agreed in writing
Trivial (level 5)	4 hours during Business Hours, via SDHC	8 hours during Business Hours via SDHC or as otherwise agreed in writing

Splendid Data Service Levels

Generic questions

In case of a generic question to PostgresPURE, just send a request to us using the SDHC.

Request a change

In case of a change request (e.g. new functionality or adding a new component to PostgresPURE) with respect to PostgresPURE, use the SDHC to let us know.

Support Services for Development Purposes

Splendid Data provides you with advice on architecture, design, development and prototyping.

Contact

Ready to experience the benefits of PostgresPURE?

Reading about the benefits of PostgresPURE is useful, but there's nothing like a face-to-face meeting where we can explain everything in person and answer all your questions.

Please get in touch using the details below to arrange an initial meeting.

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About Splendid Data

Splendid Data was founded in 2013 and since then our focus has been purely on PostgreSQL and to pass on its benefits to our clients and partners.

Our specialist team that has many years of in-depth knowledge of Oracle databases and PostgreSQL, enabling us to build **PostgresPURE** – our 100% open source subscription-based software that makes the most of PostgreSQL. At the same time, we developed **Cortex**, our unique solution for the automated migration of Oracle databases (DDL and DML) to native PostgreSQL. And to give organisations a full overview of their Oracle database environments and its suitability for migration, we created **Migration Scoping**, a clever piece of software that takes out all the guess work of a potential migration to PostgreSQL.

We're proud to assist companies of all shapes and sizes to find their way to digital liberty, agility and the power of PostgreSQL. Get in touch today to start your journey to a world without Oracle databases.

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