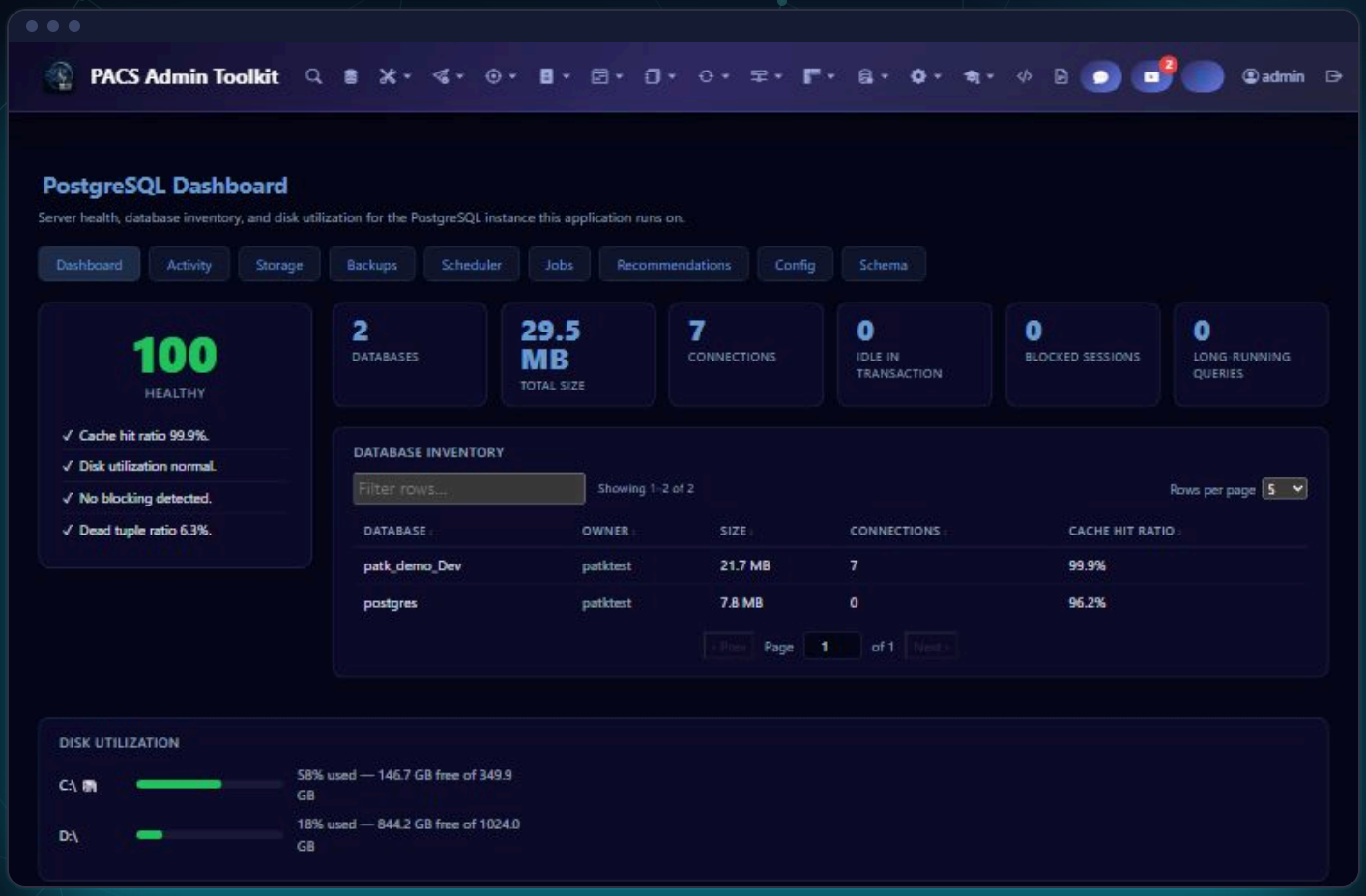
Platform & Integration | Leads with Trust

PostgreSQL Admin

Keep the database behind a 24/7 imaging service healthy, backed up and explainable, without a full-time DBA.



A health dashboard, live activity, storage, backups, scheduled maintenance and plain-English recommendations for the PostgreSQL server PATK runs on. Risky actions ask first, run one at a time in the background and are audited.

2 min
typical daily health check

Every 5 min
disk checks with e-mail alerts on a change

1 at a time
maintenance jobs, queued and audited

Replaces: **Separate database monitoring tool plus contract DBA hours**

License module `DB_ADMIN`

THE CHALLENGE

Why it matters

Routing, worklist, prefetch and reporting all depend on one database that never gets a quiet night. When it slows down, technologists wait at the modality and radiologists wait for priors, and the first question is always "is it the database?" Most imaging teams have nobody who can answer that quickly.

Backups are often a scheduled task that nobody checks until the day it is needed, and a disk that fills at 3 a.m. takes every feed down with it. Bringing in a DBA for routine checks is slow and costly.

IN SHORT

A health dashboard, live activity, storage, backups, scheduled maintenance and plain-English recommendations for the PostgreSQL server PATK runs on. Risky actions ask first, run one at a time in the background and are audited.

CAPABILITIES

What it does

- **A health score at a glance**
  The dashboard scores the server on cache hit ratio, disk fullness, blocked sessions, idle-in-transaction sessions and dead rows, with a 30-day growth chart.
- **Live activity**
  Every session with its program, machine, state and duration; long queries highlighted at 2 and 10 minutes; blocking chains show who holds everyone up, with Cancel and a typed-confirmation Terminate.
- **Storage you can act on**
  Tables by size, indexes and dead rows, with VACUUM, ANALYZE and REINDEX (including CONCURRENTLY) queued from the page.
- **Verified backups**
  pg_dump backups of one, several or all databases, plus logins, optionally zipped; each file is checked after it is written.
- **Backup retention and disk alerts**
  Optional pruning by maximum age and a high-water mark (never below a minimum age), and e-mails when the data or backup drive crosses warn (75%) or critical (90%).
- **Schedules without cron**
  Nightly backups and weekly VACUUM / ANALYZE on daily, weekly or monthly schedules; missed runs are made up within 6 hours.
- **One job at a time**
  A background runner takes the oldest queued job; the Jobs page keeps status, duration and full output of every run.
- **Recommendations in plain English**
  Bloat, autovacuum tuning, unused indexes and stale backups, with preview SQL and one-click apply; unique and constraint-backed indexes are never offered for dropping.

Settings and schema
View and change server settings with reload (never restart), and browse every database's tables and columns.

Guard rails and audit
Every change is audited with the user name, high-risk actions need a typed phrase, and each action can be switched off per role.

WORKFLOW

How it works

1
Read the statistics
Dashboard, Activity, Storage and Recommendations read what PostgreSQL already tracks, live.

2
Queue a job
A button, Backup Now or a schedule adds VACUUM, ANALYZE, REINDEX or a backup to the queue.

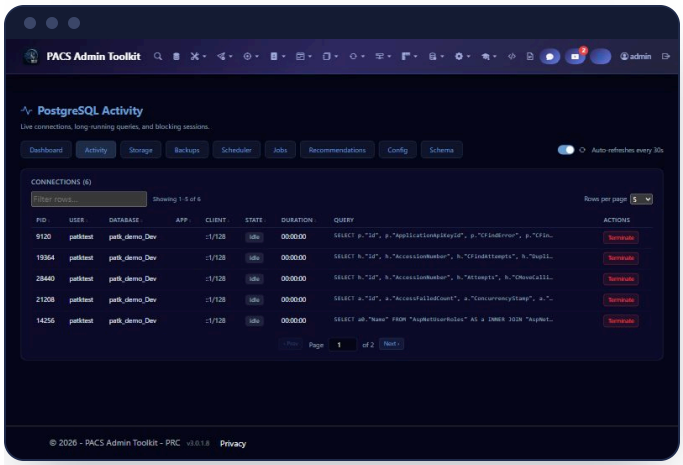
3
Run in the background
The job runner takes one job at a time, oldest first, checking every 5 seconds.

4
Watch the drives
Disk alerts check every 5 minutes; backup retention every 15 minutes, when switched on.

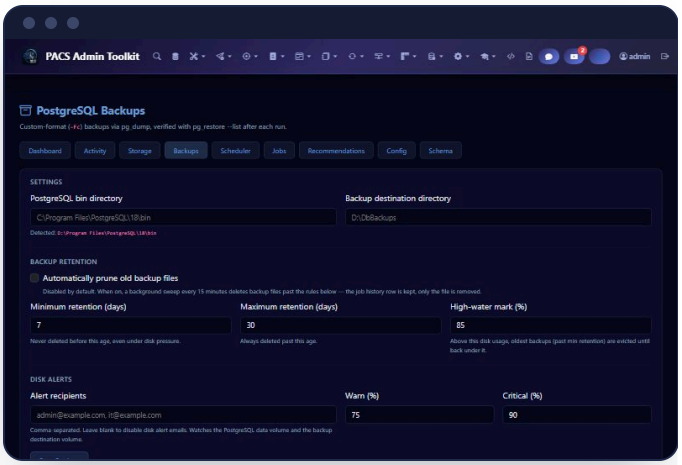
5
Review
The Jobs page and backup history show the outcome and full output of every run.

IN THE PRODUCT

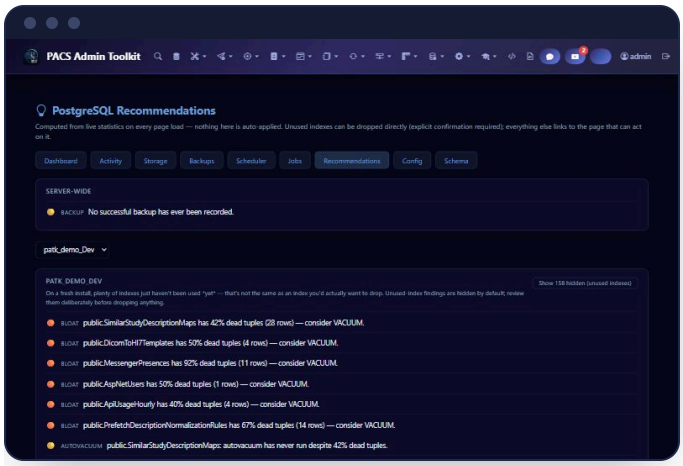
See it in action



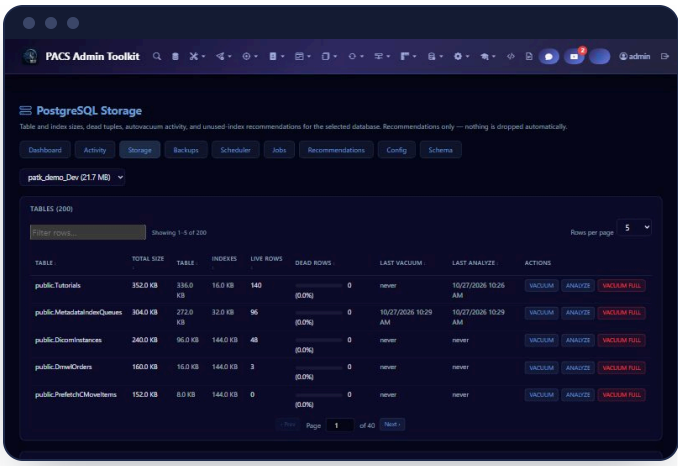
Live sessions, long-running queries and blocking chains



Backups with verification, retention and disk alerts



Recommendations explain bloat, autovacuum and index findings



Tables by size and dead rows, with VACUUM and REINDEX buttons

USE CASES

Where it pays off

"Is it the database?" during a slowdown

CHALLENGE	Saves hang across the department at 10 a.m. and the PACS team cannot tell whether the database is involved.
WITH PATK	Activity shows one session idle in transaction for 20 minutes blocking a chain of others, named by program and machine; the admin cancels it and the blocked count returns to zero.
OUTCOME	**A clear answer in minutes, and evidence for the owner of the stuck program to fix the cause.**

Backups that are proven, not assumed

CHALLENGE	The imaging database was backed up by a scheduled task nobody had checked in months.
WITH PATK	A nightly schedule backs up every database plus logins into one zip, verifies each file, prunes after 30 days and e-mails when the backup drive passes 75%.
OUTCOME	**A morning check that takes two minutes, and a monthly test restore into a scratch database that turns a hope into a backup.**

Planning disk before it fills

CHALLENGE	Leadership asks how long the database drive will last after a new facility goes live.
WITH PATK	The 30-day growth chart and Storage show the slope and the biggest tables, and separate real growth from bloat a VACUUM can reclaim.
OUTCOME	**A capacity estimate in weeks of headroom, raised well before the 75% warning.**

3T

Trust · Truth · Transform

Trust

Verified backups, disk alerts and safe defaults protect a database that clinical feeds depend on; dangerous actions ask first, need typed confirmation and are audited.

Truth

A health score, live sessions, blocking chains, sizes and growth show the real state of the server, so "is it the database?" has an answer.

Transform

Routine DBA work becomes schedules and a two-minute daily check that a PACS administrator can own.

VALUE MODEL

What it can be worth

An example single-server PATK install where routine database care was done by a contract DBA.

Routine database checks without PATK (monitoring, backups, maintenance, growth)	4 hours a week
Share of that time the pages and schedules take over	60% (about 125 hours a year)
Contract DBA rate	$110 per hour
Disk-full or stuck-session incidents caught early per year	2
Staff and downtime cost of one such incident, avoided	$4,000

$21,750

Estimated yearly value

Illustrative example. Your volumes, staffing and costs will differ; we will build this model with your own numbers.

DIFFERENTIATORS

Why it stands out

- **Built for the people on call**
  Plain-English terms, healthy-versus-worrying thresholds and task guides, where general database tools assume a DBA.
- **Inside the product it protects**
  No separate monitoring server, agent or license; the same login, roles and audit trail as the rest of PATK.
- **Safe by construction**
  One job at a time, reload never restart, unique indexes never offered for dropping, and per-role switches for every risky action.
- **Backups with proof**
  Verification, retention rules and disk alerts in one place, instead of a scheduled task nobody watches.

SPECIFICATIONS

At a glance

Database	PostgreSQL server used by PATK (all its databases are shown)
Pages	Dashboard, Activity, Storage, Backups, Scheduler, Jobs, Recommendations, Config, Schema
Maintenance	VACUUM, ANALYZE, REINDEX (CONCURRENTLY), VACUUM FULL, autovacuum tuning per table
Backups	pg_dump per database, roles and users dump, zip sets, verification, retention by age and high-water mark
Alerts	Data and backup drive warn / critical e-mails (default 75% / 90%)
Controls	Typed confirmation for high-risk actions, per-role permissions, audit log for every change

See PostgreSQL Admin with your own data

Ask for a guided demo or a trial license. PACS Admin Toolkit installs on your own Windows server in under an hour, and every module comes with step-by-step guides and in-app guided tours.

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