



POSTGRES COMPATIBILITY INDEX

MAYUR/DBE@VEEAM

Craig Kerstiens - Finger lime evan... @craigkers... · Dec 3, 2024

"Postgres compatible"

- No views/triggers/sequences
- No foreign key constraints
- No extensions
- No NOTIFY ("ERROR: Function pg_notify not supported")
- No nested transactions
- No JSONB

What, what IS it compatible with?

e1g 41 minutes ago | unvote | next [-]

Just tried a quick test cluster -

```
Identifies as PG 16.5
No views/triggers/sequences
No foreign key constraints
No extensions
No NOTIFY ("ERROR: Function pg_notify not supported")
No nested transactions
No json(b)
```

45

77

930

150K

WHEN AMAZON UNVEILED
DSQL, SOCIAL MEDIA
BUZZED WITH VIRAL
DISCUSSIONS ABOUT ITS
TOUTED POSTGRESQL
COMPATIBILITY.

ORIGIN STORY

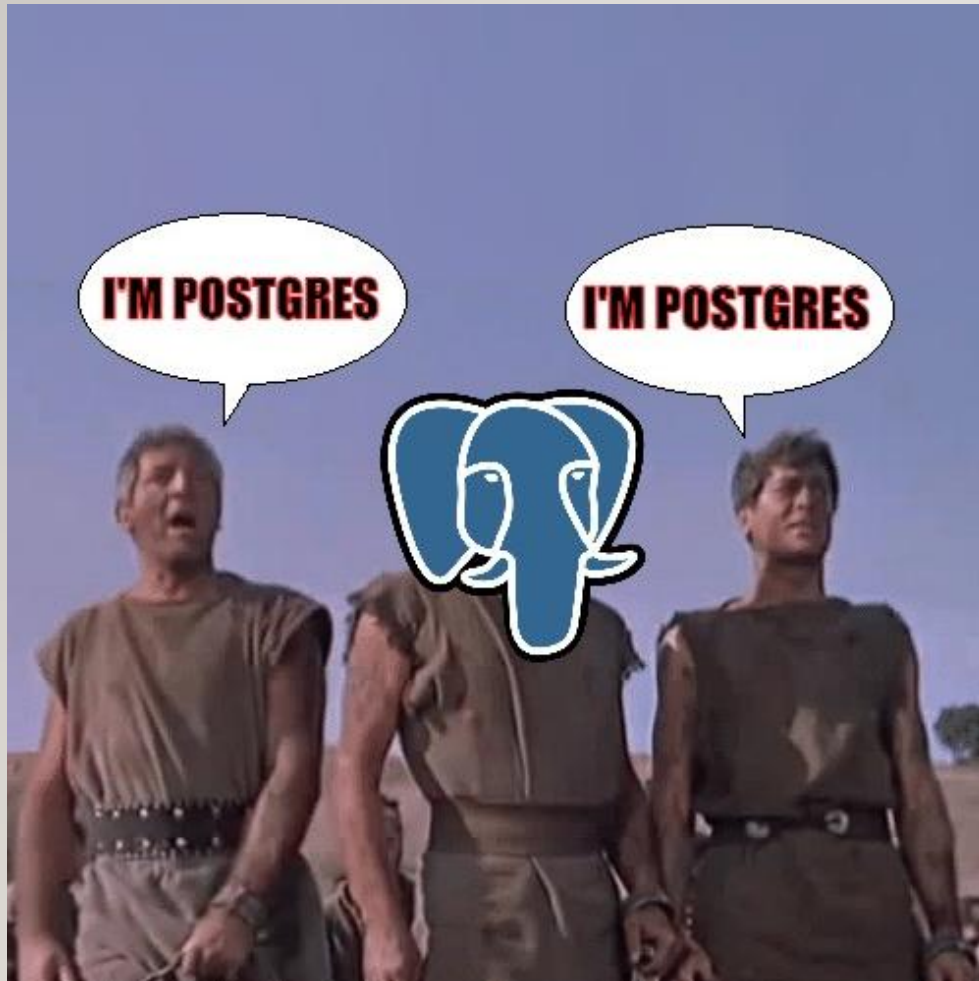


The screenshot shows a social media thread with three posts. The first post is by Gunnar Morling, discussing the need for a TCK. The second post is by Tudor Golubenco, discussing levels of compatibility. The third post is by DBA, linking to a GitHub repository for a PostgreSQL compatibility index.

Gunnar Morling @gunnarmorling.dev · 18d
I think it's about time we get a TCK which asserts what "Postgres compatible" means. Like, you need to have sequences, foreign key constraints, views, etc. in order to be able to claim that.
1 2 19 ...

Tudor Golubenco @tudor.golubenco.org · 18d
I think we need levels of it. Level 1 is "uses the Postgres wire protocol" and nothing else. Level 5 is actual Postgres with any extensions. And then a few levels in between.
3 2 11 ...

DBA @pgdba.bsky.social · 17d
Something like this? Postgres compatibility index "alpha version"
[github.com/secp256k1-sh...](https://github.com/secp256k1-sha256/postgres-compatibility-index)
postgres-compatibility-index/postgres-compatibility-index at main
· **secp256k1-sha256/postgres-compatibility-index**
Contribute to secp256k1-sha256/postgres-compatibility-index development by creating an account on GitHub.
github.com
4 5 9 ...



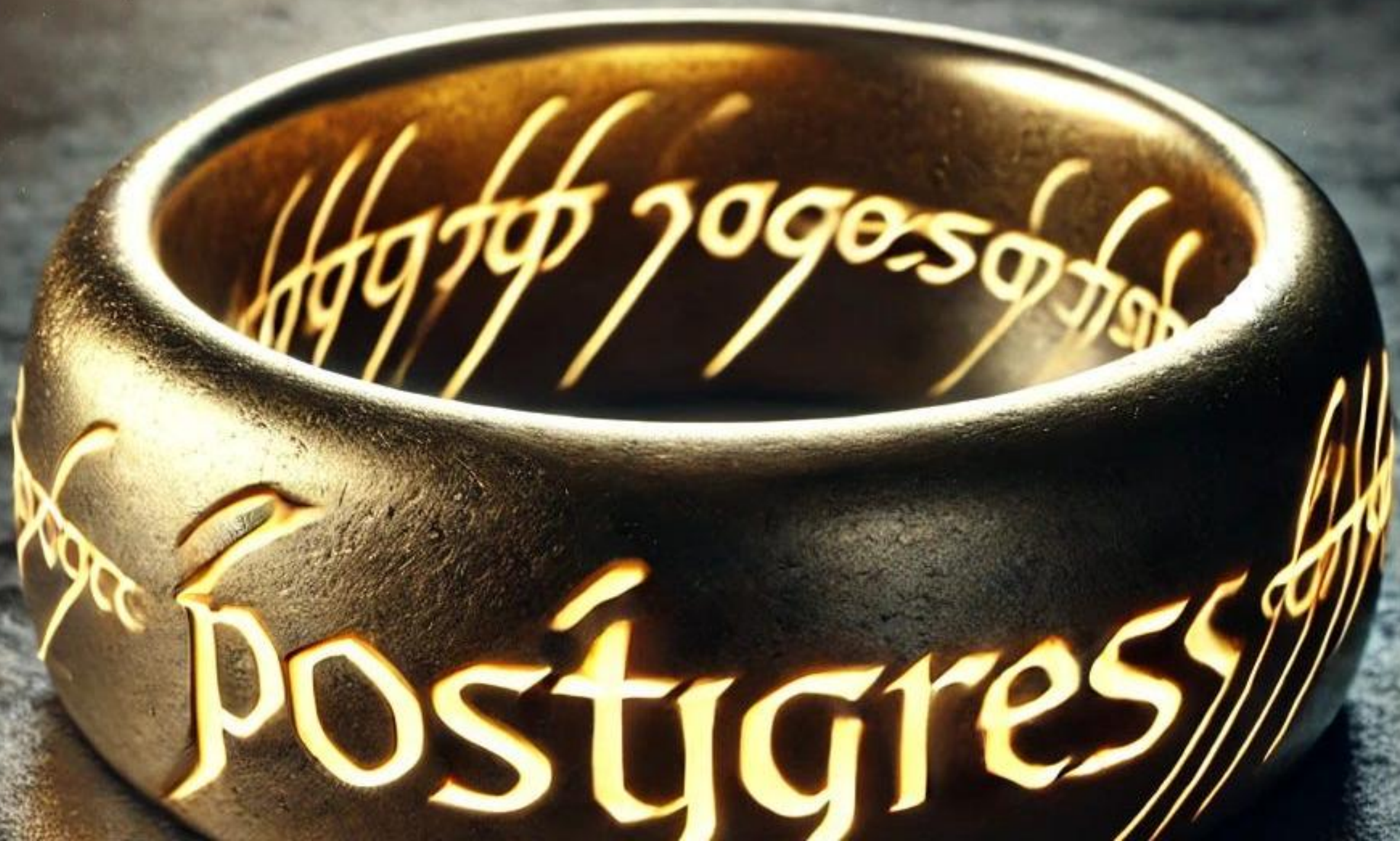
I'M
SPARTACUS



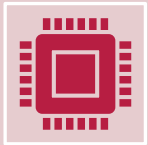
Winning is not enough. All others
must lose.

— *Larry Ellison* —

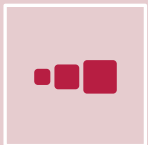
AZ QUOTES



Postgres Compatibility Index (PCI)



PCI runs a battery of tests on the database in question, poking at every feature Postgres has to offer.



Each feature is scored, depending on whether it works, or implodes spectacularly.



The results are weighted, calculated, and distilled into a single PCI score, a percentage of compatibility perfection.


```
vbrdev@pplinuxdev:~/postgres-compatibility-index/postgres-compatibility-index$ py
Feature Geospatial Types failed in data_types: type "geometry" does not exist
LINE 1: CREATE TABLE test_geo (geom GEOMETRY);
          ^

Feature Vector failed in data_types: type "vector" does not exist
LINE 1: CREATE TABLE test_vector (embedding VECTOR(3));
          ^

PCI Score: 88.57%
PCI testing completed. Report saved as 'pci_report.json'.

PCI Autotest in action, failures were induced on purpose to check sc
```

===== PostgreSQL Compatibility Report =====

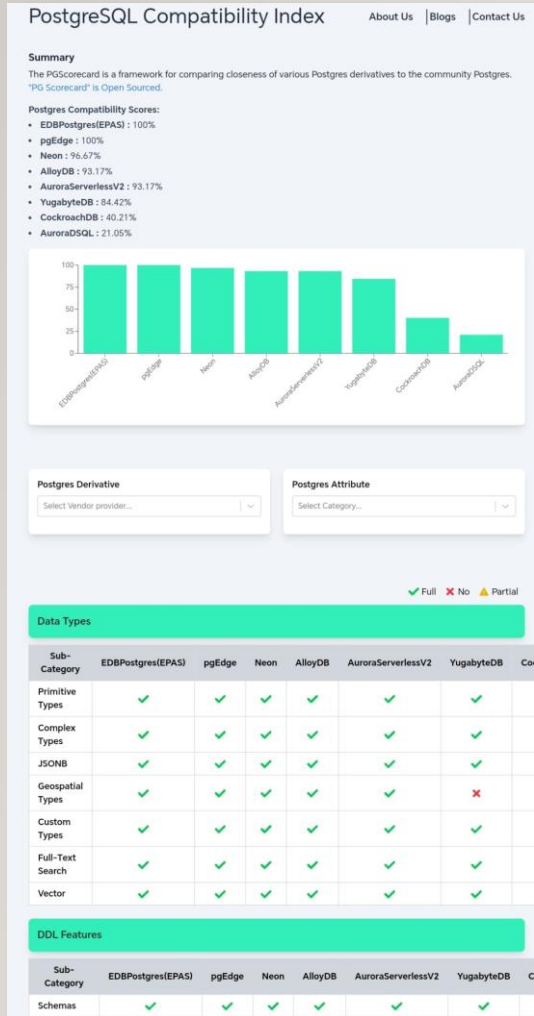
Overall Compatibility Score: 85%

The following features failed:

+-----+-----+	
Category	Feature
+-----+-----+	
data_types	Vector
procedural_features	Triggers
+-----+-----+	

PGSCORECARD

PGSCORECARD.COM



A LEGO Batman figure stands on a red brick ledge against a dark blue night sky with a large, bright full moon. The figure's eyes are glowing white. The text "I'M BATMAN" is at the top, and "NOT A DEVELOPER" is in a black box in the center.

I'M BATMAN

NOT A DEVELOPER



PR for new DB Addition



Open-Source code contribution



Mayuresh B.

Database Specialist @ Veeam
Software | Databases, RDBMS, ...



Database Comedy Blog





THANK
YOU
