

PGMQ

Message Queue on Postgres

https://github.com/tembo-io/pgmq

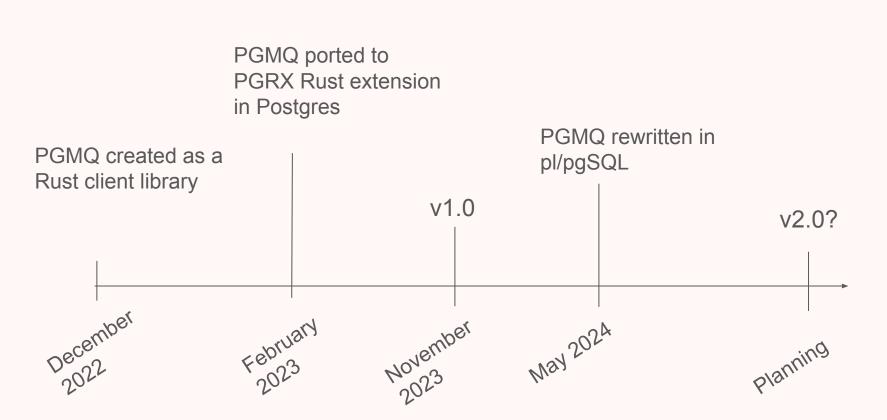


Me - Adam Hendel

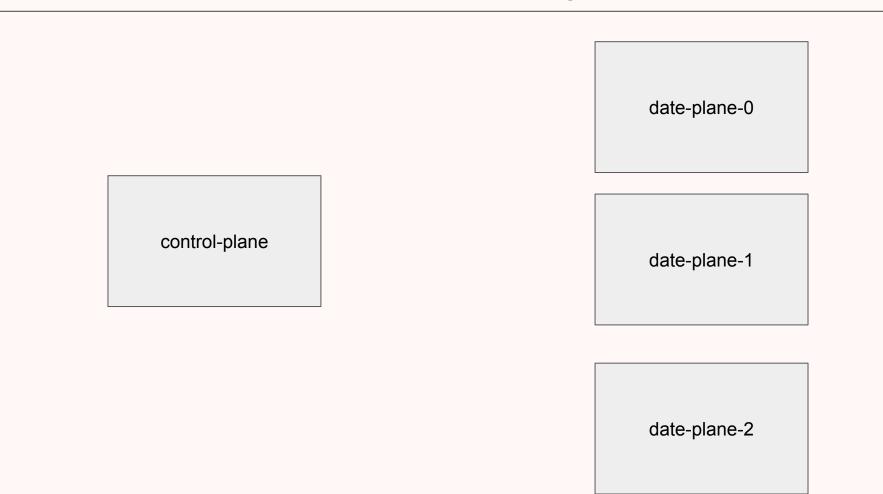
- Founding engineer at Tembo
- Postgres user for 10+ years
- Extensions for 2 yr

About PGMQ

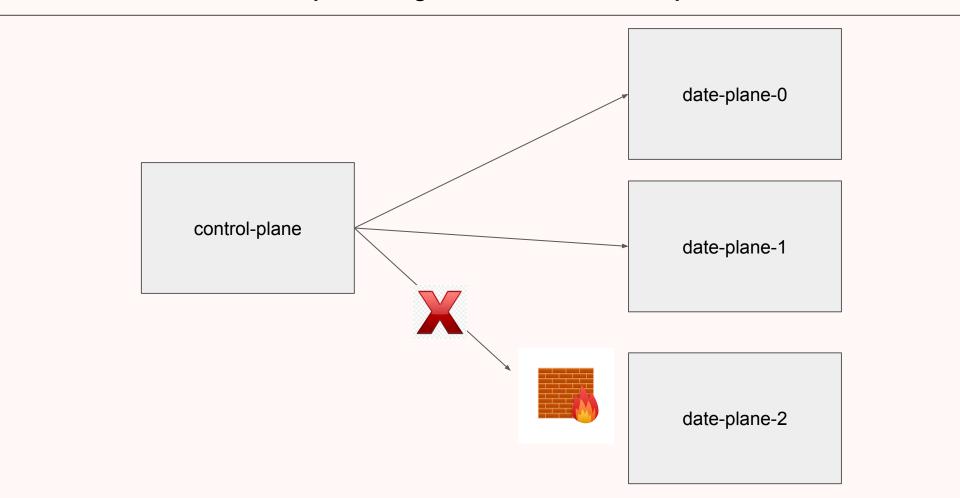
- Message queue built as a Postgres extension
- Pure SQL, stateless no background worker or dependency outside of Postgres
- Delivery semantics like SQS & RSMQ
 - <u>Visibility timeout</u> a period where a message is "in Postgres but unable to be read"
 - <u>Ack</u> messages by deleting (forever) OR archiving (moving message to an archive table)
- Low level API Not a replacement for Celery but there is some ongoing work to make Celery run on top of PGMQ
- API is designed to be <u>SIMPLE</u>

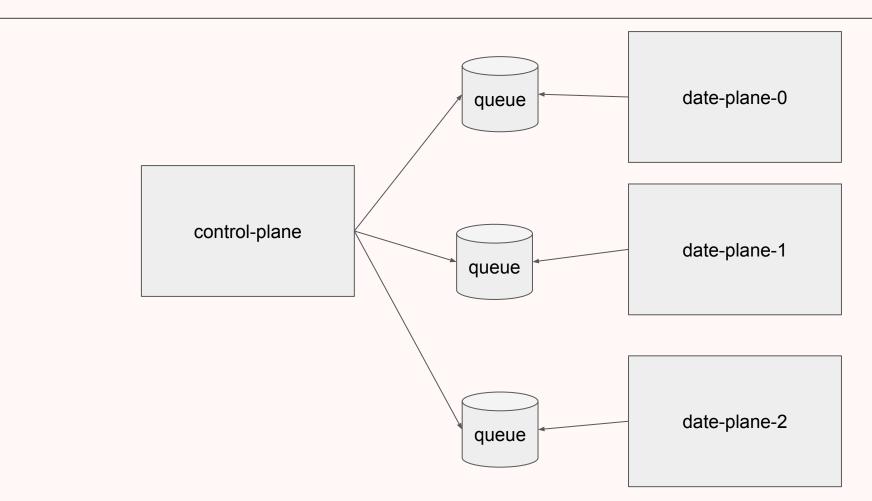


Tembo Needed a message queue

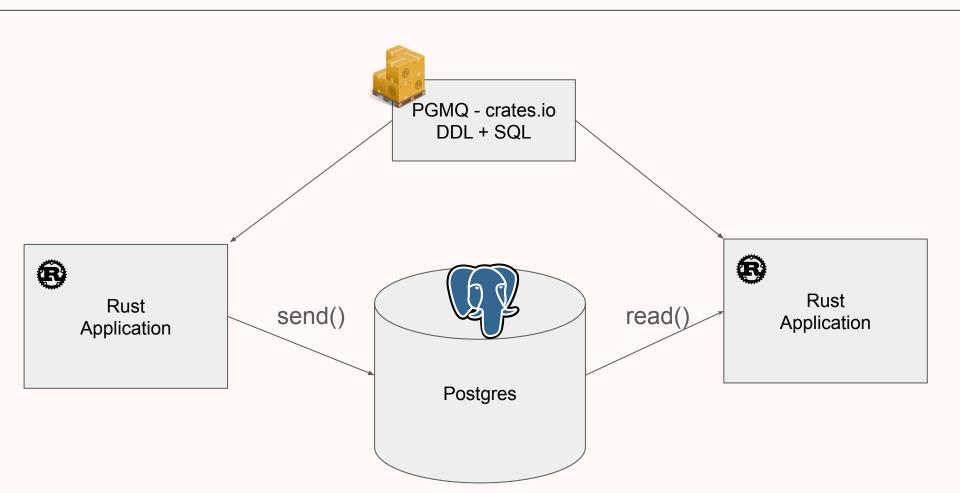


Control-plane not guaranteed to reach data-plane

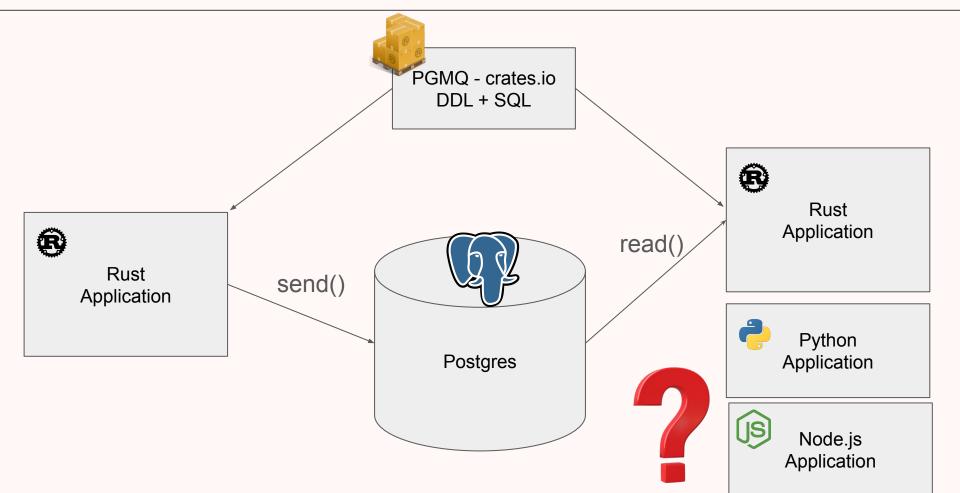




Rust crates work well with...Rust apps



But what if you aren't using Rust?

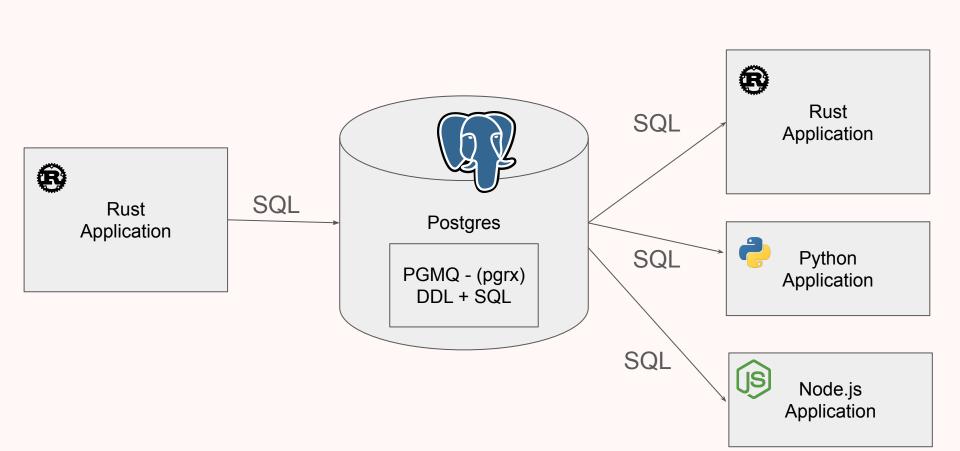


PGRX was an incredibly convenient way to turn the Rust crate into a Postgres extension

https://github.com/pgcentralfoundation/pgrx

Give them a +!

Works with any language when its an extension



Rust was not enough

- 1. It was difficult to install, compile times were slow. Rust toolchain is large...
- Batch read operations were slow due to unnecessary deserialization in the SPI impl.

So.....

The community rewrote it in PL/pgSQL

Any interest in a pgrx-ectomy? #199



olirice opened this issue on Mar 5 · 6 comments



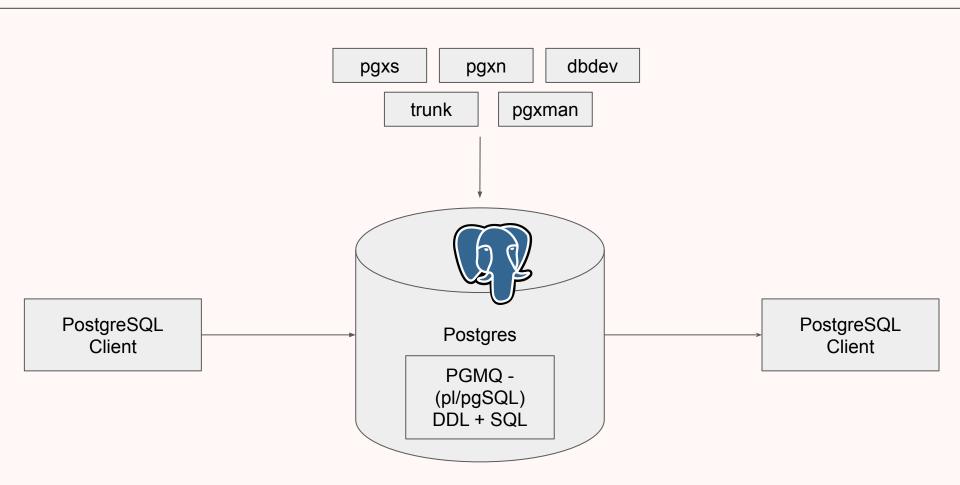


Implement all API functions in PL/pgSQL #212



v0idpwn merged 28 commits into main from rewrite-sql ☐ on May 17

easier to install



Demo!?





Contributing

- 1. Documentation, Benchmarking, Application Examples
- 2. Work on a Github Issue some bugs, some need design help
- 3. Se Client libraries

Questions?

Give it a
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