

Benchmarking Postgres

I recently learned about the `pgbench` tool, a simple tool for quickly benchmarking Postgres. Here's how to use it:

- i. Create the database that `pgbench` will use: `createdb -U app-database-user bench-db`
- ii. Initialize the database: `pgbench -U app-database-user -d bench-db -i`
- iii. Run the benchmark: `pgbench -U app-database-user -d bench-db`

Notable extra options for `pgbench`:

- `-T [SECONDS]`: Run the benchmark for a set number of seconds.
- `-c [NUMBER]`: Run the benchmark with a set number of clients.

Here are my reference runs of `pgbench`:

- Desktop (4790k) in Docker: Around 700-800 tps
- Single e2-medium in GKE: Around 300 tps

Note: tps = transactions per second

Don't know how great these numbers are, but they seem more than sufficient for the time being. 300 transactions per second... is not a *ton*, but it's not like our app is super write heavy nor super read heavy. So we should be fine.