

Dedectie en referentiepunten



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Trage queries?

- casus: databank beheerder
- middel: pg_stat_statements
- Bewerk postgresql.conf om deze module beschikbaar te maken
 - produktspecifiek

```
# postgresql.conf
```

```
shared_preload_libraries = 'pg_stat_statements'
```

```
pg_stat_statements.max = 10000
```

```
pg_stat_statements.track = all
```

Create Extension

- In elke databank waar je dit wil gebruiken:
 - `CREATE EXTENSION pg_stat_statements;`
- `SELECT *`
`FROM pg_stat_statements;`

Gebruik?

userid	37919	shared_blks_hit	0
dbid	12413	shared_blks_read	0
queryid	2401821812	shared_blks_dirtied	0
query	SELECT version()	shared_blks_written	0
calls	1	local_blks_hit	0
total_time	0.021	local_blks_read	0
min_time	0.021	local_blks_dirtied	0
max_time	0.021	local_blks_written	0
mean_time	0.021	temp_blks_read	0
stddev_time	0	temp_blks_written	0
rows	1	blk_read_time	0
		blk_write_time	0

Referentiepunten

- Middel: pgbench
- Voorbeeld localhost:
- `$ pgbench -i probeer`
- `$ pgbench -T 120 probeer`
- ..heeft meerdere opties

Resultaten

starting vacuum...end.

transaction type: TPC-B (sort of)

scaling factor: 1

query mode: simple

number of clients: 1

number of threads: 1

duration: 120 s

number of transactions actually processed: 42594

latency average: 2.817 ms

tps = 354.944850 (including connections establishing)

tps = 354.961873 (excluding connections establishing)

Bruikbaarheid

- Simulaties vs Realiteit
- Opvolging!
- Een redelijk vertrekpunt
- Notas:
 - De *initialization scale factor* (-s) zou minstens zo groot moeten zijn als het hoogste aantal klanten (*clients*) dat je wil testen (-c)
 - Autovacuum en belasting(load)

Referenties

- <https://www.postgresql.org/docs/current/static/pgstatstatements.html>
- <https://www.postgresql.org/docs/current/static/pgbench.html>

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