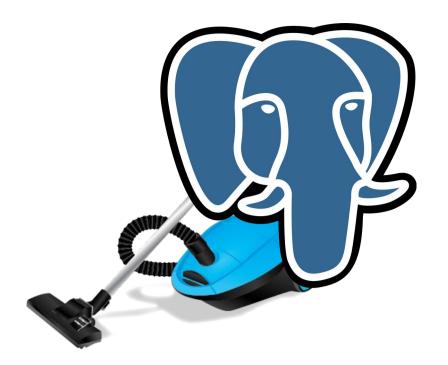


2025





VACUUM STATISTICS

Authors: Alena Rybakina Lepikhov Andrei Zubkov Andrey



#vacuum #monitoring
#vacuum_statistics



What Is Vacuum In PostgreSQL?

- √ Reclaims storage by cleaning up dead tuples
- √ Prevents bloats
- √ Maintains the visibility map
- √ Avoids transaction wraparound



- ! Provides insights to analyse vacuum workload
- Helps adjust vacuum parameters



Proposed Solution

Collects Vacuum statistics in the Cumulative Statistics System on a per-relation basis

- Buffer Statistics: hit, read dirties
- | I\O Time: blk read time, blk write time
- Tuples count: dead tuples, removed tuples
- VM marks: removed all-visible and frozen
- (1) Total time: user, system, delay
- (!) Wraparound failsafe count



Examples

SELECT * FROM pg_stat_vacuum_tables; SELECT * FROM pg_stat_vacuum_indexes; SELECT * FROM pg_stat_vacuum_database;