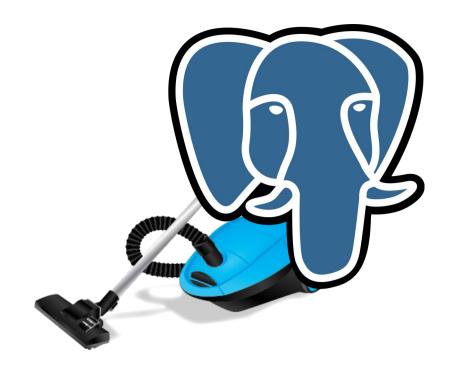


2025





VACUUM STATISTICS

Authors: Alena Rybakina Lepikhov Andrei Zubkov Andrey





What Is Vacuum In PostgreSQL?

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



The Challenge

- ! Cause excessive CPU and I/O load
- ! Degrade query performance



Key Words

#vacuum
#monitoring
#perfomance
#vacuum_statistics



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
- Total time: user, system, delay
- Wraparound failsafe count



Vacuum Statistics Are Helpful



Provides insights to analyse vacuum workload

Helps adjust vacuum parameters



Examples

SELECT * FROM pg_stat_vacuum_tables;
SELECT * FROM pg_stat_vacuum_indexes;