

PostgreSQL Health & Performance Pack

Readiness checklist — 20 checks across 5 categories. Nothing proceeds until every box is honestly ticked.

Pack	PostgreSQL Health & Performance Pack
Document	Readiness checklist (20 items)
Use	Gate reviews · phase entry criteria · go/no-go
Date	2026-09

AnovaCloud — Engineering the AI-Native Enterprise. Frisco, Texas. This pack is a working instrument, not a brochure: complete it with your team, score honestly, and bring it to your discovery call. © 2026 AnovaCloud.

BASELINE METRICS CAPTURED

Baseline metrics captured

☐

pg_stat_statements enabled

Extension installed and query stats retained across restarts; top-query list exported.

☐

Cache hit ratio recorded

Buffer cache hit ratio per database over 7 days; <99% on OLTP flagged for investigation.

☐

Bloat estimate run

Bloat estimation query executed on all user tables; top offenders listed with reclaim plan.

☐

Replication lag profiled

p50/p99 lag under peak load recorded for every replica.

CONFIGURATION REVIEW

Configuration review



Memory settings sized

shared_buffers, work_mem, maintenance_work_mem, effective_cache_size justified against RAM and workload.



Connection strategy sane

max_connections + pooler sized; no direct-to-primary connection storms from apps.



Checkpoint & WAL tuned

checkpoint_timeout/max_wal_size set so checkpoints don't spike I/O; WAL volume monitored.



Autovacuum tuned per table

Aggressive tables have per-table autovacuum settings; anti-wraparound monitored.

QUERY & INDEX HEALTH

Query & index health

☐

Top-20 queries reviewed

Each top query has EXPLAIN ANALYZE reviewed; missing indexes or bad plans logged as fixes.

☐

Unused indexes identified

Indexes with zero scans flagged for drop (after a safety window).

☐

Lock contention checked

pg_locks / wait-event sampling shows no chronic contention on hot tables.

☐

Partitioning opportunities listed

Large time-series/append tables evaluated for declarative partitioning.

RESILIENCE VERIFIED

Resilience verified



Backup recency confirmed

Latest base backup + WAL archive verified restorable within the last 30 days.



PITR drill completed

Point-in-time restore executed and timed; RTO/RPO confirmed against targets.



Failover drill completed

Replica promotion tested under load; app reconnection verified.



Runbooks exist for top incidents

Failover, bloat, runaway-query, and disk-full runbooks written and linked from alerts.

SECURITY & HYGIENE

Security & hygiene

☐

Least-privilege roles

Application roles grant only what the app needs; no app connects as superuser.

☐

Secrets vaulted & rotated

All DB credentials in a vault with rotation; none in code or config repos.

☐

TLS enforced

TLS required for all connections; certificates valid and monitored for expiry.

☐

Version & patch plan

Upgrade path to a supported major version scheduled if behind.

SIGN-OFF

Checked means done, not planned

Each category owner initials when every item is complete with evidence attached. Items marked N/A need a written reason — 'not applicable' without justification scores as incomplete.

Baseline metrics captured	Owner _____	Date _____
Configuration review	Owner _____	Date _____
Query & index health	Owner _____	Date _____
Resilience verified	Owner _____	Date _____
Security & hygiene	Owner _____	Date _____