

Multi-Master avec PostgreSQL

Capitole du Libre 2014

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PostgreSQL Expertise, Développement, Support, Formation

Sponsor Platine de PostgreSQL

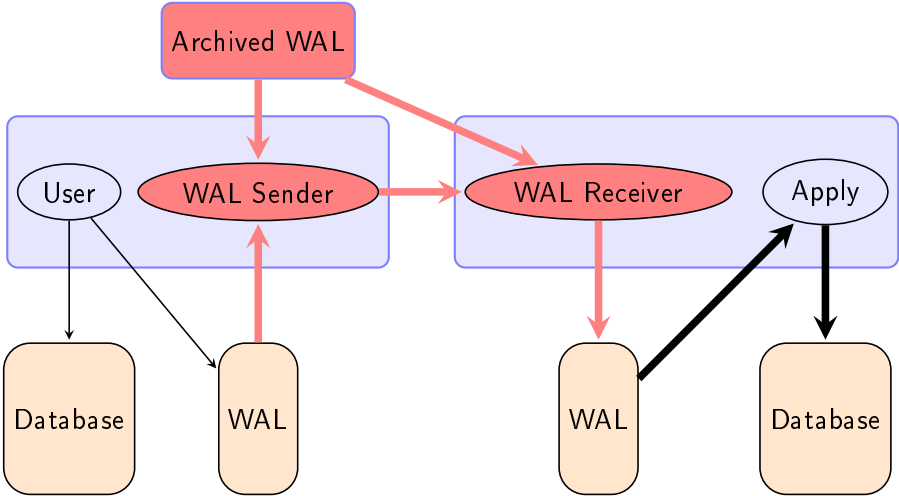
- 8.1, PITR
- 8.2, Warm Standby
- 8.3, pg_standby
- 9.0, Hot Standby
- 9.1, Synchronous Replication
- 9.2, Cascading Replication
- 9.3, Event Triggers, *Refactoring*
- 9.4, Replication Slot / Réplication Logique



Réplication avec PostgreSQL

- Réplication *physique*
- Réplication *logique*
- Réplication *synchrone*
- Réplication *asynchrone*

Réplication Physique



Réplication physique

- Réplication **fichier**
- Réplication **streaming**
- Réplication **physical slot** *nouveauté 9.4*

Réplication Logique Triggers

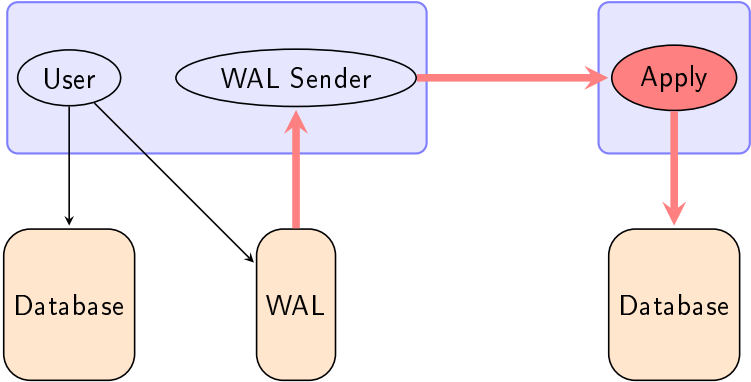
- Slony
- Londiste
- Bucardo

Réplication Logique

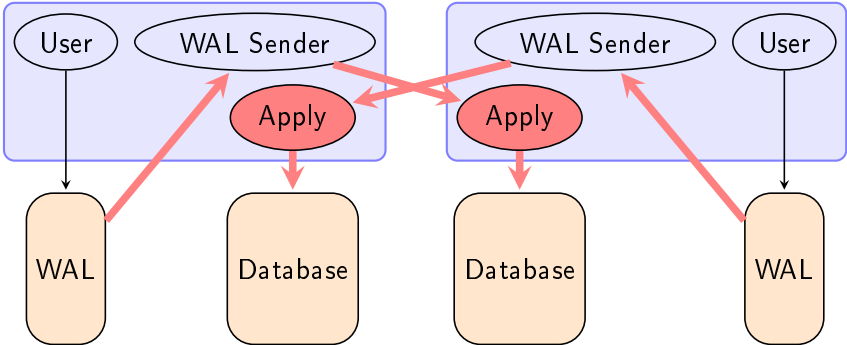
- **Event Triggers** *PostgreSQL 9.3 et suivants*
- Réplication **logical slot** *nouveauté 9.4*
- Extension **Uni-Directional Replication** *2ndQuadrant*
- Extension + Patch **Bi-Directional Replication** *2ndQuadrant*

Réplication Logique

Replication Slot

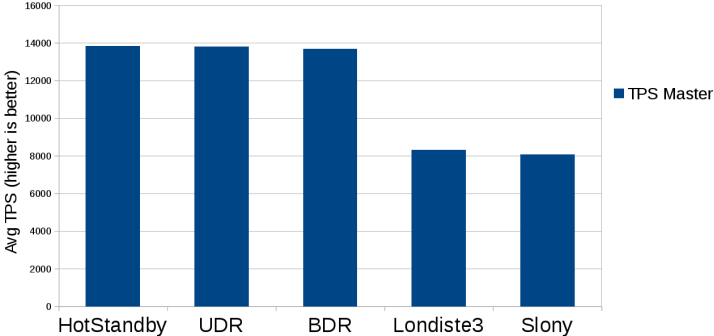


Réplication Bi-Directionnelle



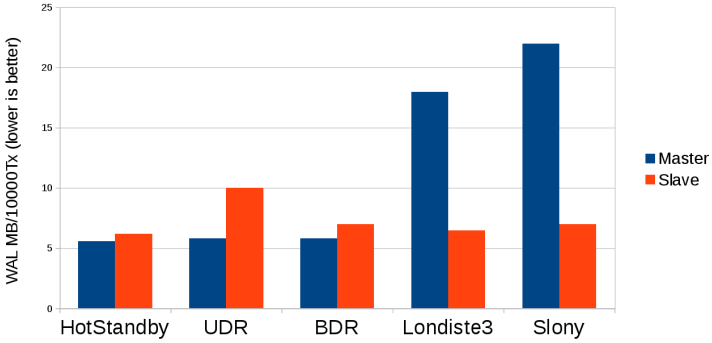
Performances

pgbench scale 50, -c 32 -j 32



Performances

pgbench scale 50, -c 32 -j 32



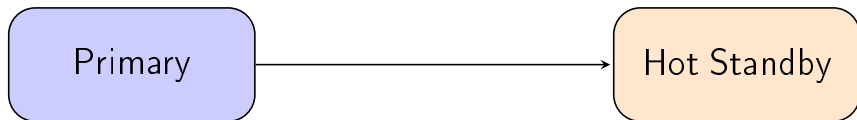
Réplication Simple

Haute-Disponibilité



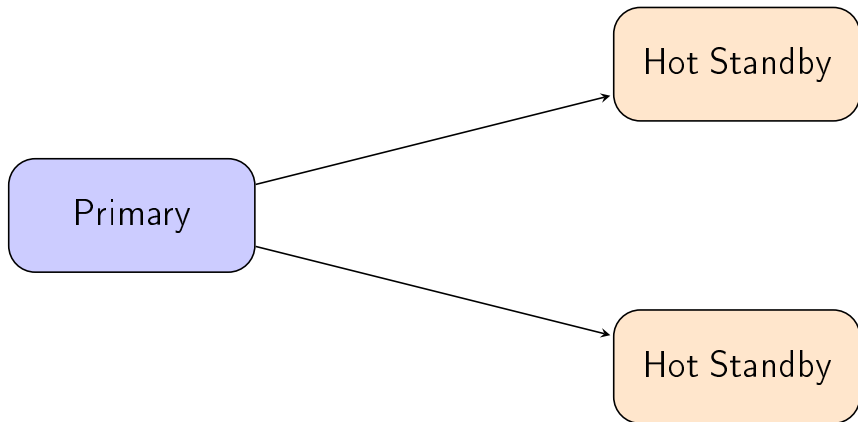
Réplication Hot-Standby

Lecture seule

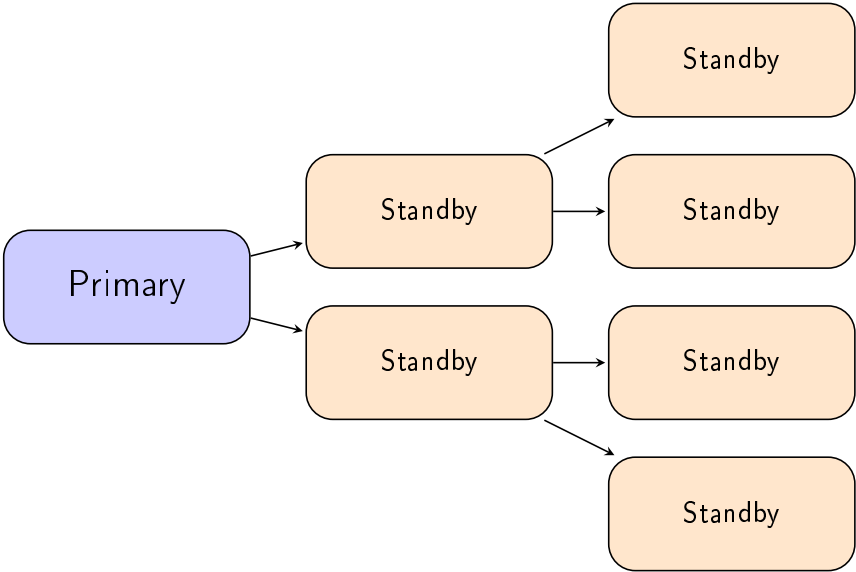


Réplication Hot-Standby

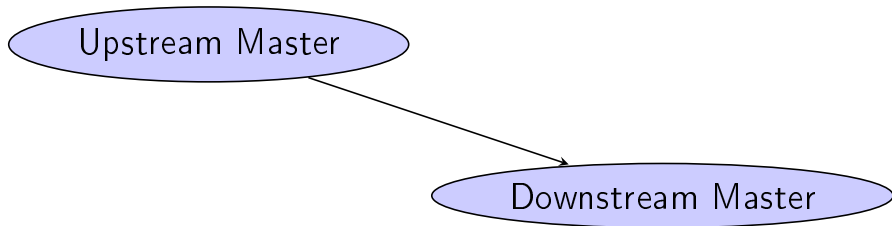
Plusieurs Standby



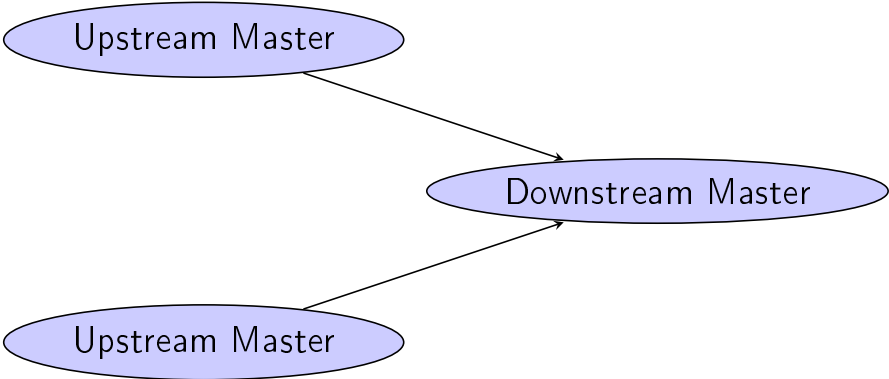
Réplication en Cascade



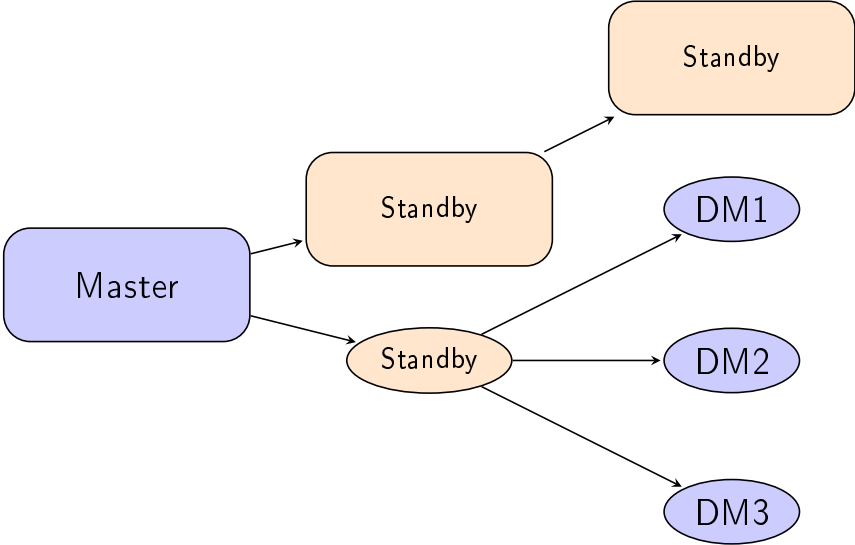
Réplication Uni-Directionnelle



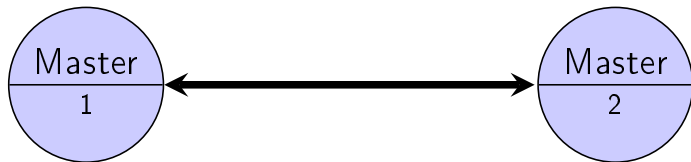
Réplication Uni-directionnelle



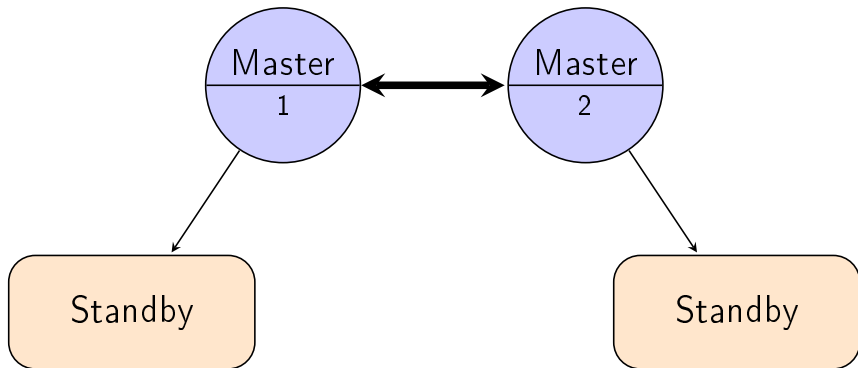
Réplication Uni-directionnelle en Cascade



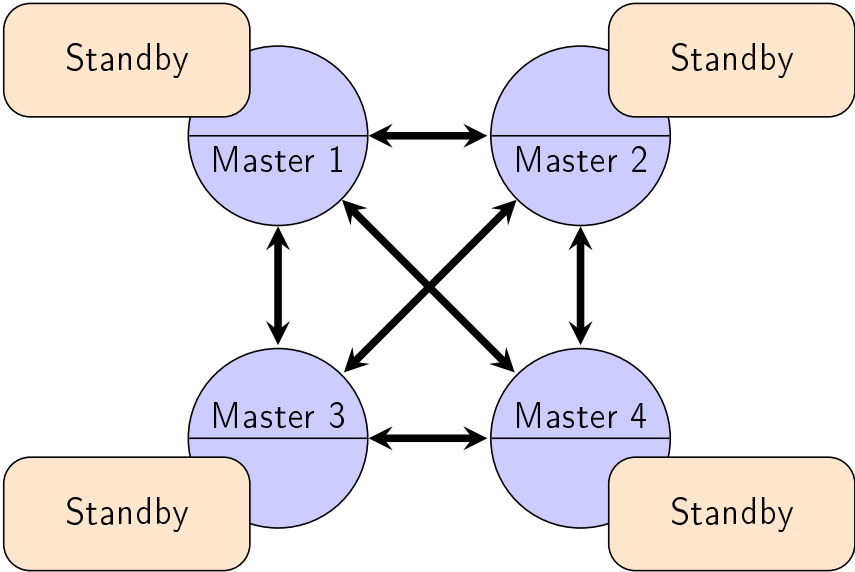
Réplication Bi-directionnelle



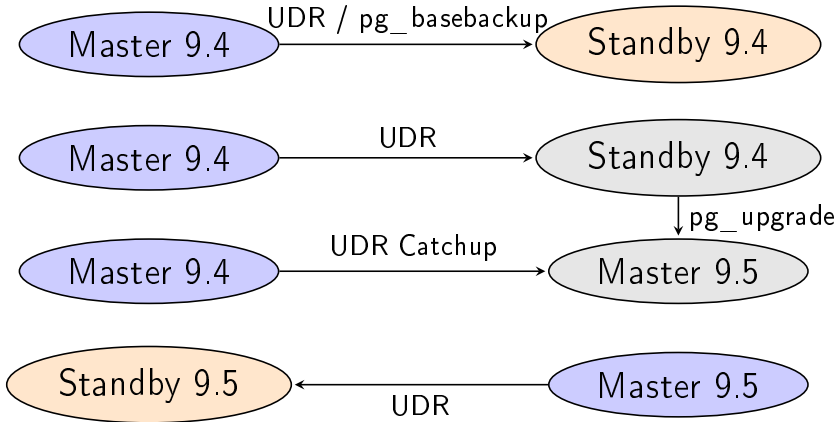
Réplication Bi-directionnelle avec Hot-Standby



Répartition Géographique



Montée de version sans interruption



Développement UDR/BDR

- Maintenu par 2ndQuadrant
- License PostgreSQL
- http://git.postgresql.org/gitweb/?p=2ndquadrant_bdr.git
- https://wiki.postgresql.org/wiki/BDR_Quick_Start
- Questions pour 2ndquadrant : bdr@2ndquadrant.com
- Questions générales (utilisateur) : pgsql-general@postgresql.org



Des questions ?

Maintenant, ou plus tard, n'hésitez pas !

