Downtimeless PG upgrading

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About me



- Working at Xenit since 2011
- Big archiving use cases
- Strong interest in PostgreSQL



Outline



- Use case
- Physical Replication?
- Logical replication?
- PostgreSQL and logical replication
- Demo



Use case

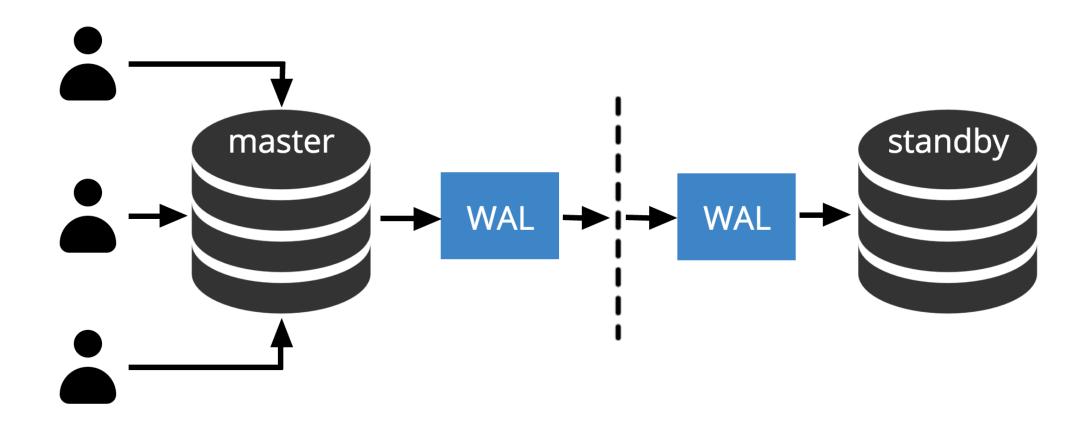


- Upgrading large DB's can take a long time
- System needs to be always on and writable
- Cloud applications
- Multinationals
- DBA's who like to sleep at night



Physical Replication?

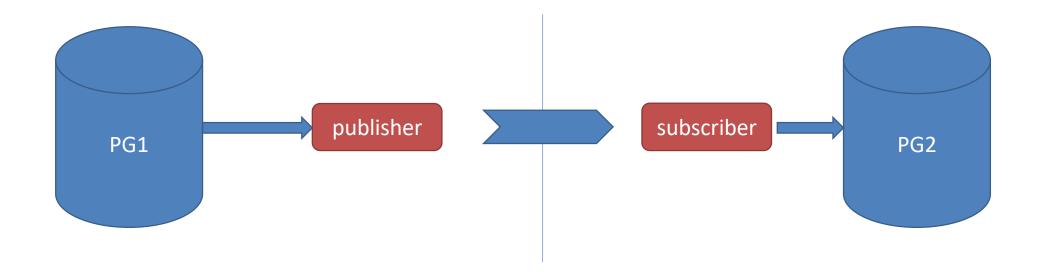






Logical replication?







History

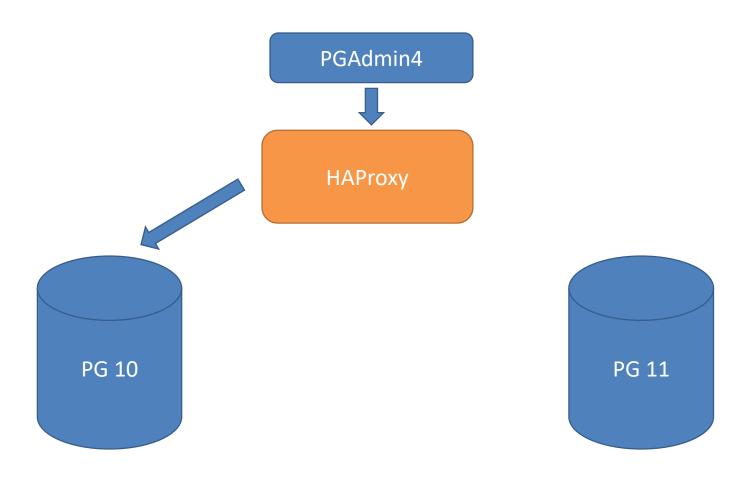


- Trigger based solutions
 - Slony
 - Londiste
- Pglogical extension
 - > PG 9.4
- Built in logical replication
 - Introduced in PG 10



Demo

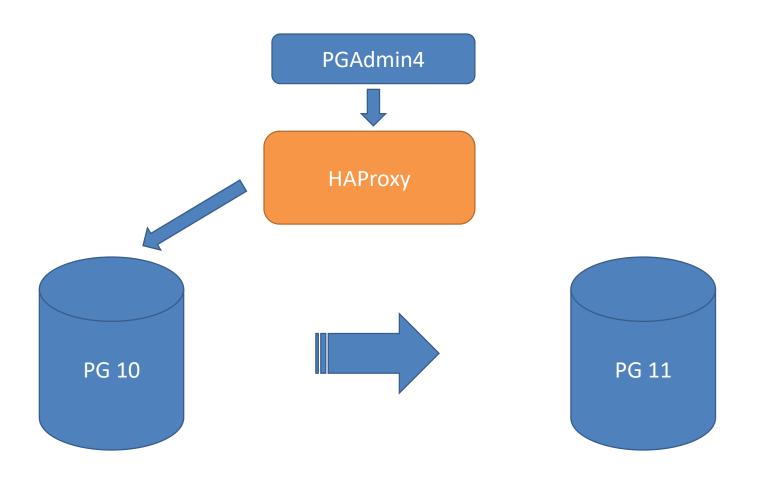






Demo

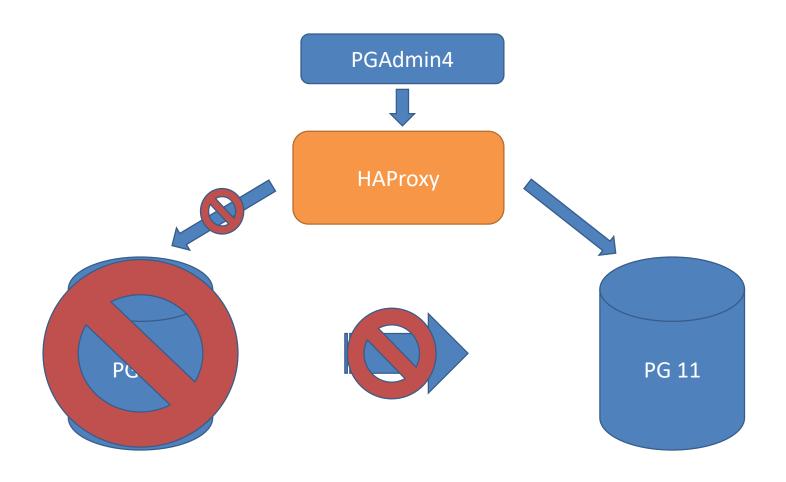






Demo







Do try this at home



https://github.com/thijslemmens/pg-logical-replication-presentation







