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Halting and Resuming Replication In PostgreSQL



ZOHAIB RIAZ (Cloud DBA)

Oracle DBA | MySQL DBA | PostgreSQL DBA | SQL DBA
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Sometimes we want WAL records should flow from primary to standby, and WAL records should be flushed to disk on standby but should not replay, which means WAL records should be stored on remote WAL segments but should not be restored on standby.

Physical streaming replication is working on mac4 and mac5

Primary Server = 10.20.30.74 (mac4)

Standby Server = 10.20.30.75 (mac5)

On standby server

```
select pg_is_wal_replay_paused();
```

```
select pg_wal_replay_pause();
```

```

zohaib=# select pg_is_wal_replay_paused();
-[ RECORD 1 ]-----+--
pg_is_wal_replay_paused | f

zohaib=# SELECT pg_wal_replay_pause();
-[ RECORD 1 ]-----+--
pg_wal_replay_pause | 

zohaib=# select pg_is_wal_replay_paused();
-[ RECORD 1 ]-----+--
pg_is_wal_replay_paused | t
  
```

Standby Server mac5 10.20.30.75

On Primary Server

Insert a row in cars table of 'zohaib' database

select * from pg_stat_replication; and have a look at write_lag, flush_lag, replay_lag

```

zohaib=# insert into cars values (963258741,'replication hald testing');
INSERT 0 1
zohaib=# select * from pg_stat_replication;
-[ RECORD 1 ]-----+-----
pid                | 27777
usesysid           | 17119
username           | replica_user
application_name    | walreceiver
client_addr        | 10.20.30.75
client_hostname     |
client_port        | 55434
backend_start       | 2023-07-06 10:04:56.2335+05
backend_xmin        |
state              | streaming
sent_lsn            | 0/2D72E990
write_lsn           | 0/2D72E990
flush_lsn           | 0/2D72E990
replay_lsn          | 0/2D72C5F8
write_lag           | 00:00:00.003226
flush_lag           | 00:00:00.005708
replay_lag          | 00:00:00.005708
sync_priority       | 0
sync_state          | async
reply_time          | 2023-07-06 12:48:40.771308+05

```

On standby server

select pg_wal_replay_resume();

```

zohaib=#
zohaib=# select pg_wal_replay_resume();
-[ RECORD 1 ]-----+-----
pg_wal_replay_resume |

```

On Primary Server

select * from pg_stat_replication; and have a look at write_lag, flush_lag, replay_lag


```

zohaib=# select * from pg_stat_replication;
-[ RECORD 1 ]-----+-----
pid                | 27777
usesysid           | 17119
username           | replica_user
application_name    | walreceiver
client_addr        | 10.20.30.75
client_hostname     |
client_port        | 55434
backend_start       | 2023-07-06 10:04:56.2335+05
backend_xmin        |
state              | streaming
sent_lsn            | 0/2D72EAB0
write_lsn           | 0/2D72EAB0
flush_lsn           | 0/2D72EAB0
replay_lsn          | 0/2D72EAB0
write_lag           |
flush_lag           |
replay_lag          |
sync_priority       | 0
sync_state          | async
reply_time          | 2023-07-06 12:53:06.190772+05

```

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