Mentés és helyreállítás

WAL archiválás (primary)

```
[postgres@pg01 ~]$ psql -c "ALTER SYSTEM SET archive_command = 'test ! -f
/var/lib/pgsql/18/backups/%f && cp %p /var/lib/pgsql/18/backups/%f'"
ALTER SYSTEM

[postgres@pg01 ~]$ psql -c "ALTER SYSTEM SET archive_mode = 'on'"
ALTER SYSTEM

[root@pg01 ~]# systemctl restart postgresql-18

[postgres@pg01 ~]$ psql -c "SHOW archive_command"
                               archive_command
------------------------------------------------------------------------------
--
 test ! -f /var/lib/pgsql/18/backups/%f && cp %p
/var/lib/pgsql/18/backups/%f
(1 row)

[postgres@pg01 ~]$ psql -c "SHOW archive_mode"
 archive_mode
--------------
 on
(1 row)
```

Hozzunk létre teszt adatokat

```
[postgres@pg01 ~]$ createuser test

[postgres@pg01 ~]$ createdb -O test test

[postgres@pg01 ~]$ psql -U test -d test -c 'CREATE TABLE test (id INT, data
TEXT)'
CREATE TABLE

[postgres@pg01 ~]$ psql -U test -d test -c "INSERT INTO test (id, data)
VALUES (1, 'backup előtt')"
INSERT 0 1

[postgres@pg01 ~]$ pg_basebackup -D /var/lib/pgsql/18/backups/backup_1 -X
stream -P
31412/31412 kB (100%), 1/1 tablespace

[postgres@pg01 ~]$ psql -U test -d test -c "INSERT INTO test (id, data)
VALUES (2, 'backup után')"
INSERT 0 1
```

```
[postgres@pg01 ~]$ psql -U test -d test -c "SELECT now()"
              now
-------------------------------
 2026-04-22 02:57:53.405918+02
(1 row)

[postgres@pg01 ~]$ psql -U test -d test -c "INSERT INTO test (id, data)
VALUES (3, 'törlés előtt')"
INSERT 0 1

[postgres@pg01 ~]$ psql -U test -d test -c "SELECT now()"
              now
-------------------------------
 2026-04-22 02:58:26.462712+02
(1 row)

[postgres@pg01 ~]$ psql -U test -d test -c "DROP TABLE test"
DROP TABLE

[postgres@pg01 18]$ psql -U test -d test -c "SELECT now()"
              now
-------------------------------
 2026-04-22 02:59:25.744184+02
(1 row)

[postgres@pg01 ~]$ psql -c "SELECT * FROM test"
ERROR:  relation "test" does not exist
LINE 1: SELECT * FROM test

[postgres@pg01 ~]$ psql -c "SELECT pg_switch_wal()"
 pg_switch_wal
---------------
 0/1000C300
(1 row)

                     ^
```

Helyreállítás egy másik gépen

```
[root@pg03 ~]# rsync -a --delete root@pg01:/var/lib/pgsql/18/backups/
/var/lib/pgsql/18/backups/
root@pg01's password:

[root@pg03 ~]# systemctl stop postgresql-18

[root@pg03 ~]# rm -rf /var/lib/pgsql/18/data/*

[root@pg03 ~]# cp -a /var/lib/pgsql/18/backups/backup_1/*
/var/lib/pgsql/18/data/
```

```
[root@pg03 ~]# cat /var/lib/pgsql/18/data/postgresql.auto.conf
# Do not edit this file manually!
# It will be overwritten by the ALTER SYSTEM command.
archive_command = 'test ! -f /var/lib/pgsql/18/backups/%f && cp %p
/var/lib/pgsql/18/backups/%f'
archive_mode = 'on'

[root@pg03 ~]# export RECOVERY_TIMESTAMP='2026-04-22 04:09:07.322546+02'

[root@pg03 ~]# cat > /var/lib/pgsql/18/data/postgresql.auto.conf <<EOF
restore_command = 'cp /var/lib/pgsql/18/backups/%f %p'
recovery_target_time = '$RECOVERY_TIMESTAMP'
recovery_target_action = 'promote'
EOF

[root@pg03 ~]# cat /var/lib/pgsql/18/data/postgresql.auto.conf
restore_command = 'cp /var/lib/pgsql/18/backups/%f %p'
recovery_target_time = '2026-04-22 04:09:07.322546+02'
recovery_target_action = 'promote'

[root@pg03 ~]# touch /var/lib/pgsql/18/data/recovery.signal

[root@pg03 ~]# chown -R postgres:postgres /var/lib/pgsql/18/data/

[root@pg03 ~]# rm -rf /var/lib/pgsql/18/data/log/*

[root@pg03 ~]# systemctl restart postgresql-18

[root@pg03 ~]# psql -U test -d test -c "SELECT * FROM test"
 id |     data
----+--------------
  1 | backup előtt
  2 | backup után
  3 | törlés előtt
(3 rows)

[root@pg03 ~]# cat /var/lib/pgsql/18/data/log/postgresql-Wed.log
2026-04-22 04:45:22.243 CEST [1249] LOG:  starting PostgreSQL 18.3 on
x86_64-pc-linux-gnu, compiled by gcc (GCC) 11.5.0 20240719 (Red Hat
11.5.0-11), 64-bit
2026-04-22 04:45:22.243 CEST [1249] LOG:  listening on IPv4 address
"0.0.0.0", port 5432
2026-04-22 04:45:22.243 CEST [1249] LOG:  listening on IPv6 address "::",
port 5432
2026-04-22 04:45:22.243 CEST [1249] LOG:  listening on Unix socket
"/run/postgresql/.s.PGSQL.5432"
2026-04-22 04:45:22.244 CEST [1249] LOG:  listening on Unix socket
"/tmp/.s.PGSQL.5432"
2026-04-22 04:45:22.247 CEST [1256] LOG:  database system was interrupted;
last known up at 2026-04-22 02:56:01 CEST
cp: cannot stat '/var/lib/pgsql/18/backups/00000002.history': No such file
```

```
or directory
2026-04-22 04:45:22.347 CEST [1256] LOG:  starting backup recovery with redo
LSN 0/B000028, checkpoint LSN 0/B0000B8, on timeline ID 1
2026-04-22 04:45:22.355 CEST [1256] LOG:  restored log file
"00000001000000000000000B" from archive
2026-04-22 04:45:22.362 CEST [1256] LOG:  starting point-in-time recovery to
2026-04-22 04:09:07.322546+02
2026-04-22 04:45:22.364 CEST [1256] LOG:  redo starts at 0/B000028
2026-04-22 04:45:22.372 CEST [1256] LOG:  restored log file
"00000001000000000000000C" from archive
2026-04-22 04:45:22.385 CEST [1256] LOG:  restored log file
"00000001000000000000000D" from archive
2026-04-22 04:45:22.397 CEST [1256] LOG:  restored log file
"00000001000000000000000E" from archive
2026-04-22 04:45:22.404 CEST [1256] LOG:  completed backup recovery with
redo LSN 0/B000028 and end LSN 0/B000158
2026-04-22 04:45:22.404 CEST [1256] LOG:  consistent recovery state reached
at 0/B000158
2026-04-22 04:45:22.404 CEST [1249] LOG:  database system is ready to accept
read-only connections
2026-04-22 04:45:22.415 CEST [1256] LOG:  restored log file
"00000001000000000000000F" from archive
2026-04-22 04:45:22.430 CEST [1256] LOG:  restored log file
"000000010000000000000010" from archive
cp: cannot stat '/var/lib/pgsql/18/backups/000000010000000000000011': No
such file or directory
2026-04-22 04:45:22.440 CEST [1256] LOG:  recovery stopping before commit of
transaction 784, time 2026-04-22 04:09:58.572915+02
2026-04-22 04:45:22.440 CEST [1256] LOG:  redo done at 0/1000A220 system
usage: CPU: user: 0.00 s, system: 0.00 s, elapsed: 0.07 s
2026-04-22 04:45:22.440 CEST [1256] LOG:  last completed transaction was at
log time 2026-04-22 04:09:03.049934+02
2026-04-22 04:45:22.446 CEST [1256] LOG:  restored log file
"000000010000000000000010" from archive
cp: cannot stat '/var/lib/pgsql/18/backups/00000002.history': No such file
or directory
2026-04-22 04:45:22.458 CEST [1256] LOG:  selected new timeline ID: 2
cp: cannot stat '/var/lib/pgsql/18/backups/00000001.history': No such file
or directory
2026-04-22 04:45:22.475 CEST [1256] LOG:  archive recovery complete
2026-04-22 04:45:22.476 CEST [1254] LOG:  checkpoint starting: end-of-
recovery immediate wait
2026-04-22 04:45:22.487 CEST [1254] LOG:  checkpoint complete: wrote 36
buffers (0.2%), wrote 3 SLRU buffers; 0 WAL file(s) added, 0 removed, 5
recycled; write=0.003 s, sync=0.004 s, total=0.013 s; sync files=30,
longest=0.001 s, average=0.001 s; distance=81960 kB, estimate=81960 kB;
lsn=0/1000A220, redo lsn=0/1000A220
2026-04-22 04:45:22.490 CEST [1249] LOG:  database system is ready to accept
connections
```

Tipikus helyzetek

- Az archiválás nem tartalmazza a szükséges WAL-t ezért nem tudunk visszaállni egy megadott időpontra. Ilyenkor a forrás oldalon futtatni kell a `psql -c "SELECT pg_switch_wal()"` utasítást és újra áttölteni a helyreállító gépre.
- Ha nem hozzuk létre a '' recovery.signal '' állományt, akkor a pg_basebackup állaporta tér vissza és nem foglalkozik a recovery_target_time értékével.
- A recovery_target_action meghatározza, milyen állapotba kerüljön a postgresql a recovery során.

Ellenőrzés

Ha nincsenek pontos időadatok, akkor a WAL fájlok ellenőrzése lehet a megoldás. Ilyenkor nem a '' recovery_target_time = '' paramétert, hanem a '' recovery_target_lsn = '' paramétert adjuk meg.

A pg_waldump program segít

```
[postgres@pg01 data]$ /usr/pgsql-18/bin/pg_waldump
/var/lib/pgsql/18/backups/000000010000000000000010
rmgr: Standby     len (rec/tot):     50/    50, tx:          0, lsn:
0/10000028, prev 0/0F000158, desc: RUNNING_XACTS nextXid 782
latestCompletedXid 781 oldestRunningXid 782
rmgr: Heap        len (rec/tot):     54/   182, tx:        782, lsn:
0/10000060, prev 0/10000028, desc: INSERT off: 2, flags: 0x00, blkref #0:
rel 1663/16396/16402 blk 0 FPW
rmgr: Transaction len (rec/tot):     34/    34, tx:        782, lsn:
0/10000118, prev 0/10000060, desc: COMMIT 2026-04-22 04:08:32.694902 CEST
rmgr: Standby     len (rec/tot):     50/    50, tx:          0, lsn:
0/10000140, prev 0/10000118, desc: RUNNING_XACTS nextXid 783
latestCompletedXid 782 oldestRunningXid 783
rmgr: Heap        len (rec/tot):     75/    75, tx:        783, lsn:
0/10000178, prev 0/10000140, desc: INSERT off: 3, flags: 0x00, blkref #0:
rel 1663/16396/16402 blk 0
rmgr: Transaction len (rec/tot):     34/    34, tx:        783, lsn:
0/100001C8, prev 0/10000178, desc: COMMIT 2026-04-22 04:09:03.049934 CEST
rmgr: Standby     len (rec/tot):     50/    50, tx:          0, lsn:
0/100001F0, prev 0/100001C8, desc: RUNNING_XACTS nextXid 784
latestCompletedXid 783 oldestRunningXid 784
rmgr: Standby     len (rec/tot):     42/    42, tx:        784, lsn:
0/10000228, prev 0/100001F0, desc: LOCK xid 784 db 16396 rel 16402
rmgr: XLOG        len (rec/tot):     49/  7753, tx:        784, lsn:
0/10000258, prev 0/10000228, desc: FPI_FOR_HINT , blkref #0: rel
1663/16396/2608 blk 12 FPW
rmgr: Standby     len (rec/tot):     42/    42, tx:        784, lsn:
0/100020C0, prev 0/10000258, desc: LOCK xid 784 db 16396 rel 16405
rmgr: Standby     len (rec/tot):     42/    42, tx:        784, lsn:
0/100020F0, prev 0/100020C0, desc: LOCK xid 784 db 16396 rel 16406
rmgr: XLOG        len (rec/tot):     49/  4397, tx:        784, lsn:
0/10002120, prev 0/100020F0, desc: FPI_FOR_HINT , blkref #0: rel
1663/16396/1247 blk 14 FPW
rmgr: XLOG        len (rec/tot):     49/  8221, tx:        784, lsn:
0/10003250, prev 0/10002120, desc: FPI_FOR_HINT , blkref #0: rel
```

```
1663/16396/2610 blk 1 FPW
rmgr: XLOG        len (rec/tot):     49/  2173, tx:        784, lsn:
0/10005288, prev 0/10003250, desc: FPI_FOR_HINT , blkref #0: rel
1663/16396/1249 blk 55 FPW
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10005B08, prev 0/10005288, desc: DELETE xmax: 784, off: 1, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/2610 blk 1
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10005B40, prev 0/10005B08, desc: DELETE xmax: 784, off: 14, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10005B78, prev 0/10005B40, desc: DELETE xmax: 784, off: 15, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     59/  7959, tx:        784, lsn:
0/10005BB0, prev 0/10005B78, desc: DELETE xmax: 784, off: 40, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1259 blk 15 FPW
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007AE0, prev 0/10005BB0, desc: DELETE xmax: 784, off: 126, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/2608 blk 12
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007B18, prev 0/10007AE0, desc: DELETE xmax: 784, off: 127, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/2608 blk 12
rmgr: Standby     len (rec/tot):     66/    66, tx:          0, lsn:
0/10007B50, prev 0/10007B18, desc: LOCK xid 784 db 16396 rel 16402 xid 784
db 16396 rel 16405 xid 784 db 16396 rel 16406
rmgr: Standby     len (rec/tot):     54/    54, tx:          0, lsn:
0/10007B98, prev 0/10007B50, desc: RUNNING_XACTS nextXid 785
latestCompletedXid 783 oldestRunningXid 784; 1 xacts: 784
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007BD0, prev 0/10007B98, desc: DELETE xmax: 784, off: 13, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007C08, prev 0/10007BD0, desc: DELETE xmax: 784, off: 12, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007C40, prev 0/10007C08, desc: DELETE xmax: 784, off: 11, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007C78, prev 0/10007C40, desc: DELETE xmax: 784, off: 10, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007CB0, prev 0/10007C78, desc: DELETE xmax: 784, off: 9, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007CE8, prev 0/10007CB0, desc: DELETE xmax: 784, off: 8, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007D20, prev 0/10007CE8, desc: DELETE xmax: 784, off: 5, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007D58, prev 0/10007D20, desc: DELETE xmax: 784, off: 6, infobits:
```

```
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007D90, prev 0/10007D58, desc: DELETE xmax: 784, off: 7, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007DC8, prev 0/10007D90, desc: DELETE xmax: 784, off: 39, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1259 blk 15
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007E00, prev 0/10007DC8, desc: DELETE xmax: 784, off: 128, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/2608 blk 12
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007E38, prev 0/10007E00, desc: DELETE xmax: 784, off: 23, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1247 blk 14
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007E70, prev 0/10007E38, desc: DELETE xmax: 784, off: 124, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/2608 blk 12
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007EA8, prev 0/10007E70, desc: DELETE xmax: 784, off: 22, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1247 blk 14
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007EE0, prev 0/10007EA8, desc: DELETE xmax: 784, off: 123, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/2608 blk 12
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007F18, prev 0/10007EE0, desc: DELETE xmax: 784, off: 4, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007F50, prev 0/10007F18, desc: DELETE xmax: 784, off: 3, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007F88, prev 0/10007F50, desc: DELETE xmax: 784, off: 2, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10007FC0, prev 0/10007F88, desc: DELETE xmax: 784, off: 1, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 55
rmgr: XLOG        len (rec/tot):     49/  7921, tx:        784, lsn:
0/10007FF8, prev 0/10007FC0, desc: FPI_FOR_HINT , blkref #0: rel
1663/16396/1249 blk 54 FPW
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10009F08, prev 0/10007FF8, desc: DELETE xmax: 784, off: 58, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 54
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10009F40, prev 0/10009F08, desc: DELETE xmax: 784, off: 57, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 54
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10009F78, prev 0/10009F40, desc: DELETE xmax: 784, off: 55, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 54
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10009FB0, prev 0/10009F78, desc: DELETE xmax: 784, off: 56, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1249 blk 54
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/10009FE8, prev 0/10009FB0, desc: DELETE xmax: 784, off: 41, infobits:
```

```
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/1259 blk 15
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/1000A038, prev 0/10009FE8, desc: DELETE xmax: 784, off: 125, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1663/16396/2608 blk 12
rmgr: XLOG        len (rec/tot):     49/   373, tx:        784, lsn:
0/1000A070, prev 0/1000A038, desc: FPI_FOR_HINT , blkref #0: rel 1664/0/1214
blk 0 FPW
rmgr: Heap        len (rec/tot):     54/    54, tx:        784, lsn:
0/1000A1E8, prev 0/1000A070, desc: DELETE xmax: 784, off: 5, infobits:
[KEYS_UPDATED], flags: 0x00, blkref #0: rel 1664/0/1214 blk 0
rmgr: Transaction len (rec/tot):   1089/  1089, tx:        784, lsn:
0/1000A220, prev 0/1000A1E8, desc: COMMIT 2026-04-22 04:09:58.572915 CEST;
rels: base/16396/16402 base/16396/16405 base/16396/16406; dropped stats:
2/16396/16406 2/16396/16405 2/16396/16402; inval msgs: catcache 34 catcache
7 catcache 6 catcache 7 catcache 6 catcache 57 catcache 56 catcache 7
catcache 6 catcache 7 catcache 6 catcache 7 catcache 6 catcache 7 catcache 6
catcache 7 catcache 6 catcache 7 catcache 6 catcache 7 catcache 6 catcache 7
catcache 6 catcache 7 catcache 6 catcache 57 catcache 56 catcache 82
catcache 81 catcache 82 catcache 81 catcache 7 catcache 6 catcache 7
catcache 6 catcache 7 catcache 6 catcache 7 catcache 6 catcache 7 catcache 6
catcache 7 catcache 6 catcache 7 catcache 6 catcache 7 catcache 6 catcache
57 catcache 56 relcache 16406 relcache 16405 snapshot 2608 relcache 16405
snapshot 2608 snapshot 2608 snapshot 2608 relcache 16402 snapshot 2608
snapshot 1214
rmgr: Standby     len (rec/tot):     50/    50, tx:          0, lsn:
0/1000A668, prev 0/1000A220, desc: RUNNING_XACTS nextXid 785
latestCompletedXid 784 oldestRunningXid 785
rmgr: Heap2       len (rec/tot):     64/    64, tx:          0, lsn:
0/1000A6A0, prev 0/1000A668, desc: PRUNE_ON_ACCESS snapshotConflictHorizon:
784, isCatalogRel: F, nplans: 0, nredirected: 0, ndead: 3, nunused: 1, dead:
[38, 39, 40], unused: [41], blkref #0: rel 1663/16396/1259 blk 15
rmgr: Standby     len (rec/tot):     50/    50, tx:          0, lsn:
0/1000A6E0, prev 0/1000A6A0, desc: RUNNING_XACTS nextXid 785
latestCompletedXid 784 oldestRunningXid 785
rmgr: XLOG        len (rec/tot):     49/  6769, tx:          0, lsn:
0/1000A718, prev 0/1000A6E0, desc: FPI_FOR_HINT , blkref #0: rel
1663/16396/2663 blk 2 FPW
rmgr: Standby     len (rec/tot):     50/    50, tx:          0, lsn:
0/1000C1A8, prev 0/1000A718, desc: RUNNING_XACTS nextXid 785
latestCompletedXid 784 oldestRunningXid 785
rmgr: XLOG        len (rec/tot):     30/    30, tx:          0, lsn:
0/1000C1E0, prev 0/1000C1A8, desc: CHECKPOINT_REDO wal_level replica
rmgr: Standby     len (rec/tot):     50/    50, tx:          0, lsn:
0/1000C200, prev 0/1000C1E0, desc: RUNNING_XACTS nextXid 785
latestCompletedXid 784 oldestRunningXid 785
rmgr: XLOG        len (rec/tot):    114/   114, tx:          0, lsn:
0/1000C238, prev 0/1000C200, desc: CHECKPOINT_ONLINE redo 0/1000C1E0; tli 1;
prev tli 1; fpw true; wal_level replica; xid 0:785; oid 24594; multi 1;
offset 0; oldest xid 722 in DB 1; oldest multi 1 in DB 4; oldest/newest
commit timestamp xid: 0/0; oldest running xid 785; online
rmgr: Standby     len (rec/tot):     50/    50, tx:          0, lsn:
```

```
0/1000C2B0, prev 0/1000C238, desc: RUNNING_XACTS nextXid 785
latestCompletedXid 784 oldestRunningXid 785
rmgr: XLOG        len (rec/tot):     24/    24, tx:          0, lsn:
0/1000C2E8, prev 0/1000C2B0, desc: SWITCH
```

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