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SQL		3
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PostgreSQL

PostgreSQL

3가

- SQL
-
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SQL	pg_dump, pg_dumpall pg_restore, psql	AgensGraph 가 가	가 가 가)	가 가 가
(PITR)	pg_basebackup wal tar wal	AgensGraph 가 가 AgensGraph 가 가	가 가	가 가
	tar	AgensGraph 가 가		가

SQL

PostgreSQL

가

PostgreSQL

가 가

pg_dump, pg_dumpall, pg_restore, psql
가 .

가 , 4가

pg_dump		가 가	role tablespace
pg_dumpall		가 가	
pg_restore	pg_dump	가 가	pg_dumpall
psql		가 pg_dump, pg_dumpall	가

4가

1. pg_dump → psql
2. pg_dump → pg_restore
3. pg_dumpall → psql

1.

```
2 port graph_dump
pg_dump agens
PostgreSQL pg_dump
agens ,
```

```
1.PostgreSQL 1
$ pg_ctl -D /path/to/server1/data start

2.
$ pg_dump dump > dump.backup

3.PostgreSQL 2
$ pg_ctl -D /path/to/server2/data start

4.
$ createdb -p 5433 dump

5.
$ psql -p 5433 dump < dump.backup

6.
$ psql -p 5433 dump
```

```
2. 2 port
pg_c_dump pg_dump pg_restore
PostgreSQL pg_dump
가 , pg_restore
psql , pg_restore
```

```
1.PostgreSQL 1
$ pg_ctl -D /path/to/server1/data start

2.
$ pg_dump -Fc pg_c_dump > pg_c_dump.backup

3.PostgreSQL 2
$ pg_ctl -D /path/to/server2/data start

4.
$ createdb -p 5433 pg_c_dump
```

```
5.
$ pg_restore -p 5433 -d pg_c_dump pg_c_dump.backup

6.
$ psql -p5433 pg_c_dump
```

```
3.
2 port
pg_dumpall
pg_dumpall psql
PostgreSQL pg_dumpall
psql
postgres
pg_dumpall
https://www.postgresql.org/docs/current/static/app-pg-dumpall.html
```

```
1.PostgreSQL 1
$ pg_ctl -D /path/to/server1/data start

2.
$ pg_dumpall > pg_dumpall.backup

3.PostgreSQL 2
$ pg_ctl -D /path/to/server2/data start

5.
$ psql -p 5433 -f pg_dumpall.backup postgres

6.
$ psql -p 5433 pg_dumpall
```

```
2.
pg_backup
data tar
tar
tar
pg_ctl
700 -C
-m
-p 가
```

```
1.PostgreSQL
$ pg_ctl -D /path/to/server/data stop

2.
$ cd /path/to/server/data
$ tar cf backup.tar *

3.
$ mkdir -m 700 -p /path/to/server/backup/data
$ tar xf backup.tar -C /path/to/server/backup/data
```

4. PostgreSQL

```
$ pg_ctl -D /path/to/server/backup/data start
```

5.

```
$ psql pg_backup
```

3. 가 . 가

3.1 가 pg_basebackup 가 , pg_wal (PG 9.x pg_xlog PG 10 pg_wal) WAL(Write Ahead Log) .

pg_wal , wals WAL .

- WAL backup_wal (1) . postgresql.conf 가 .

```
wal_level = archive
archive_mode = on
archive_command = 'cp %p /home/bylee/test/backup/wals/%f'
archive_timeout = 1min
```

- pg_basebackup data .

```
pg_basebackup -D /home/bylee/test/data
```

- recovery.conf data , restore_command WAL

()

```
restore_command = 'cp /home/bylee/test/backup/wals/%f %p'
```

()

```
restore_command = 'cp /home/bylee/test/backup/wals/%f %p'
recovery_target_time = '2018-05-09 13:50:00'
```

- 가 . recovery.conf recovery.done .

:

<https://www.postgresql.org/docs/current/static/recovery-target-settings.html>

3.2 가 tar . data

pg_wal pg_wal WAL , data

pg_wal WAL 가 가 .

2가 , 3.1 .

- WAL backup_wal (1) .
- postgresql.conf 가 .

```
wal_level = archive
archive_mode = on
archive_command = 'cp %p /home/bylee/test/backup/wals/%f'
archive_timeout = 1min
```

- tar data . data pg_wal .

```
cd /path/to/data
tar cf backup.tar *
tar xf backup.tar /path/to/new/data
```

- recovery.conf /path/to/new/data , restore_command
WAL .

```
restore_command = 'cp /home/bylee/test/backup/wals/%f %p'
```

```
restore_command = 'cp /home/bylee/test/backup/wals/%f %p'
recovery_target_time = '2018-05-09 13:50:00'
```

- .
- 가 recovery.conf recovery.done .
: <https://www.postgresql.org/docs/current/static/recovery-target-settings.html>

- <https://bylee5.tistory.com/73>

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