

# PostgreSQL

## DEV refresh

### Backup fuelwatcher on PROD

```
docker exec -it FW_PostgreSQL /bin/bash
cd /var/lib/postgresql/data/backups/
pg_dump -d fuelwatcher > fuelwatcher_RPi64_`date +%Y-%m-%dT%H-%M-%S`.backup
```

Login to root:

```
sudo su -
rsync -av /var/lib/docker/volumes/fw_stack_postgres-data/_data/backups/
/media/usb/backup/postgresql/backups/
```

### Restore on DEV

Copy *daily* backup from PROD to DEV using Beyond Compare config **Docker/backups (WSL ↔ KARGATH)** Login:

```
docker exec -it FW_PostgreSQL /bin/bash
su - postgres
psql
```

DROP and CREATE DATABASE

```
SELECT pg_terminate_backend(pid) FROM pg_stat_activity WHERE
datname='fuelwatcher';

DROP DATABASE fuelwatcher;

CREATE DATABASE fuelwatcher
WITH
OWNER = postgres
ENCODING = 'UTF8'
LC_COLLATE = 'en_US.utf8'
LC_CTYPE = 'en_US.utf8'
TABLESPACE = pg_default
CONNECTION LIMIT = -1;
```

Backup DEV then Restore PROD to DEV:

```
cd /var/lib/postgresql/data/backups/
```

```
pg_dump -d fuelwatcher > fuelwatcher_STONARD_`date +%Y-%m-%dT%H-%M-%S`.backup  
psql -d fuelwatcher < fuelwatcher_RPi64_2021-08-01T05-23-25.backup
```

TMP

```
pg_dumpall > dev-container_devcontainer_db_1_all_`date +%Y-%m-%dT%H-%M-%S`.backup  
cd /workspace/fuelwatcher/data/STONARD\ backups/  
cd /workspace/fuelwatcher/data/RPi-WiFi\ backups/
```

## Data Dictionary export

For comparison between PROD and DEV. Perform on both:

```
pg_dump -Cs fuelwatcher >  
/workspace/FuelWatcher/backups/fuelwatcher_STONARD_`date +%Y-%m-%dT%H-%M-%S`.bak
```

## Version upgrade

Test (gunzipped) restore of daily PROD backup to test PostgreSQL server (new version).

```
docker exec -it TEST_PostgreSQL /bin/bash  
  
cd /var/lib/postgresql/data/backups/  
psql -U postgres -f FW_PostgreSQL_all_2023-11-28T00-00-01.bak
```

Stop both PostgreSQL servers.

Move PROD directory aside and clone test data files into place (perms are important).

```
mv _data data_bak  
rsync -av ../postgresql-test_test-postgres-data/_data .
```

Move backups back to proper location

```
mv data_bak/backups/* _data/backups/
```

## Password fix

```
SELECT  
    rolname, rolpassword ~ '^SCRAM-SHA-256\$$' AS has_upgraded  
FROM pg_authid
```

```
WHERE rolcanlogin;
```

```
\password postgres
```

## References

How to Upgrade Your PostgreSQL Passwords to SCRAM -

<https://blog.crunchydata.com/blog/how-to-upgrade-postgresql-passwords-to-scam>

Postgres dump database schema with or without data -

<https://www.chrisnewland.com/postgres-dump-database-schema-with-or-without-data-61>

[PostgreSQL: Basic psql Commands](#)

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