Title: docker-compose and create db in Postgres on init

Post Body:

I have a question. I am pretty new to docker, so what I am trying to do is create a docker-compose file that on compose command will also create the database. Problem is that does not create DB as I ask it nicely. So my docker-compose looks like:

```
version: '3'  services:   db:     image: postgres:latest     restart: always     ports:       - 5432:5432     environment:
```

And when I start docker-compose up in log I can see

```
db_1  | PostgreSQL Database directory appears to contain a database; Skipping initialization db_1  | db_1  | 2020-01-13 11:14:
```

In my init SQL there is only 1 line:

```
CREATE DATABASE 'MyDataBase';
```

As I list DB is Postgres container my DB is nowhere to be found. What could be the source root of this problem?

Accepted Answer:

According to the documentation of postgres docker image you did everything correct.

> If you would like to do additional initialization in an image derived from this one, add one or more *.sql, *.sql.gz, or *.sh scripts under /docker-entrypoint-initdb.d (creating the directory if necessary). After the entrypoint calls initdb to create the default postgres user and database, it will run any *.sql files, run any executable *.sh scripts, and source any non-executable *.sh scripts found in that directory to do further initialization before starting the service.

But, there is a catch which I think you missed based on log that you posted above.

> Warning: **scripts in /docker-entrypoint-initdb.d are only run if you start the container with a data directory that is empty**; any pre-existing database will be left untouched on container startup.

So, I would give it a try to empty `database_data` directory and run again `docker-compose up`.

Highest Rated Answer:

If, when you start your Docker Compose, you're getting:

```
PostgreSQL Database directory appears to contain a database; Skipping initialization
```

you need to proactively remove the volumes which were set up to store the database.

The command `docker-compose down` doesn't do this automatically.

You can request removal of volumes like this:

```
docker-compose down --volumes
```