

Title: Docker-Compose Persistent Data Trouble

Post Body:

I'm having trouble in configuring persistent data with Mariadb. I'm using `docker-compose`, with each service in a single container (Nginx, PHP-FPM and Mariadb). Everything is working, except Mariadb doesn't store data. Every time I restart the container, I lose all the data. Then I found out that I can use another container just to keep data, and it doesn't even have to be running.

So I'm using, in Mariadb container `volume_from` content container. But when I do that, when I try to map the volume `/var/lib/mysql`, the Container MariaDb doesn't start.

Error

2015-12-29 12:16:40 7f2f02e4a780

InnoDB: Operating system error number 13 in a file operation.

InnoDB: The error means mysqld does not have the access rights to

InnoDB: the directory.

The error refers to a problem about volume permissions, but I've tried to set permissions through `Dockerfile` in both containers, and the problem persists. I'm a bit lost. I'm using OSX, so I believe this is an OSX problem. Can anyone help me on this?

This is my code:

My Docker Compose

```
content:    build: containers/content    container_name: content    hostname: content    volumes:    - /var/lib/mysql mariadb:
```

MariaDB Dockerfile

```
FROM debian:jessie    RUN apt-get update && apt-get install -y mariadb-server    EXPOSE 3306
```

Content Dockerfile

```
FROM debian:jessie    VOLUME /var/lib/mysql    CMD ['true']
```

Accepted Answer:

The way i do it is that I use busybox for all data stored and shared with mariadb. Then use `--volumes-from` in mariadb to link that directories. Please have a look into my simplified `compose.yml` file.

```
db-data:    container_name: db-data    image: busybox:latest    volumes:    - /data/mysql:/var/lib/mysql    db:    container_name:
```

Now all database files are accessible on host os too and there shouldn't be any permissions issues.

Update for docker-compose 2.0

```
version: '2'    volumes:    database:    services:    db:    container_name: db    image: million12/mariadb    restart: always
```

You can see where docker is storing that volume on your hard drive by running command:

```
docker volume inspect docker_database
```

```
[ {    'Name': 'docker_database',    'Driver': 'local',    'Mountpoint': '/var/lib/docker/volumes/docker_database/_data',  } ]
```

Highest Rated Answer: None