

Problem 5:

- Use docker compose to deploy ghost platform (image: ghost:1alpine) (Ghost is a free and open-source blogging platform written in JavaScript)
- Use mysql database instead of sqlite.

Solution:

```
[root@localhost lab02-prob5]# ls
docker-compose.yaml
[root@localhost lab02-prob5]# docker compose up
[+] Running 10/10
# ghost-platform Pulled
# aad63a933944 Pull complete
# 976f06839970 Pull complete
# c29b7930f4f9 Pull complete
# 18316e90c198 Pull complete
# 7ab797547c3 Pull complete
# ef529ab4d1ec Pull complete
# 96e7ecd230d9 Pull complete
# 59586d3e4b30 Pull complete
# 089ba083e704 Pull complete
[+] Running 4/4
# Network lab02-prob5_default Created
# Volume "lab02-prob5_mysql-db" Created
# Container lab02-prob5-data-base-1 Created
# Container lab02-prob5-ghost-platform-1 Created
Attaching to lab02-prob5-data-base-1, lab02-prob5-ghost-platform-1
lab02-prob5-data-base-1 | 2022-12-10 20:19:01+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.31-1.el8 started.
lab02-prob5-data-base-1 | 2022-12-10 20:19:01+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
lab02-prob5-data-base-1 | 2022-12-10 20:19:01+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.31-1.el8 started.
lab02-prob5-data-base-1 | 2022-12-10 20:19:02+00:00 [ERROR] [Entrypoint]: Database is uninitialized and password option is not specified
lab02-prob5-data-base-1 | You need to specify one of the following as an environment variable:
lab02-prob5-data-base-1 | - MYSQL_ROOT_PASSWORD
lab02-prob5-data-base-1 | - MYSQL_ALLOW_EMPTY_PASSWORD
lab02-prob5-data-base-1 | - MYSQL_RANDOM_ROOT_PASSWORD
lab02-prob5-data-base-1 exited with code 1
lab02-prob5-data-base-1 | 2022-12-10 20:19:04+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
lab02-prob5-data-base-1 | 2022-12-10 20:19:04+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.31-1.el8 started.
lab02-prob5-data-base-1 | 2022-12-10 20:19:05+00:00 [ERROR] [Entrypoint]: Database is uninitialized and password option is not specified
lab02-prob5-data-base-1 | You need to specify one of the following as an environment variable:
lab02-prob5-data-base-1 | - MYSQL_ROOT_PASSWORD
lab02-prob5-data-base-1 | - MYSQL_ALLOW_EMPTY_PASSWORD
lab02-prob5-data-base-1 | - MYSQL_RANDOM_ROOT_PASSWORD
lab02-prob5-data-base-1 exited with code 1
lab02-prob5-ghost-platform-1 | [2022-12-10 20:19:06] INFO Creating table: posts
lab02-prob5-ghost-platform-1 | [2022-12-10 20:19:06] INFO Creating table: users
lab02-prob5-ghost-platform-1 | [2022-12-10 20:19:06] INFO Creating table: posts_authors
lab02-prob5-ghost-platform-1 | [2022-12-10 20:19:06] INFO Creating table: roles
```

```
[root@localhost lab02-prob5]# ls
docker-compose.yaml
[root@localhost lab02-prob5]# cat docker-compose.yaml
version: '3.7'

services:
  ghost-platform:
    image: ghost:1-alpine
    depends_on:
      - data-base
    ports:
      - "1000:1000"

  data-base:
    image: mysql:latest
    volumes:
      - type: volume
        source: mysql-db
        target: /app
    restart: always

volumes:
  mysql-db:
[root@localhost lab02-prob5]#
```