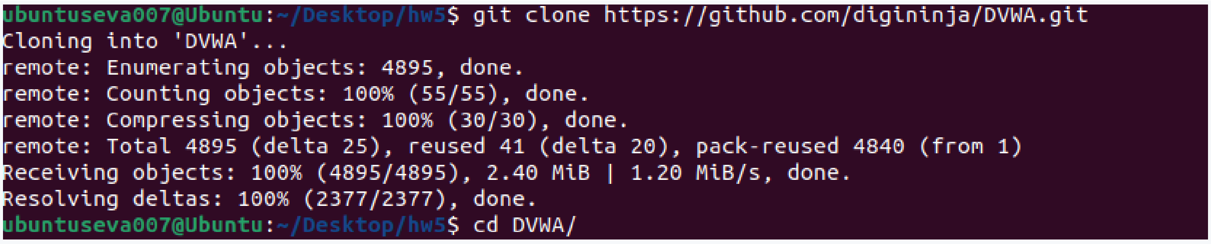
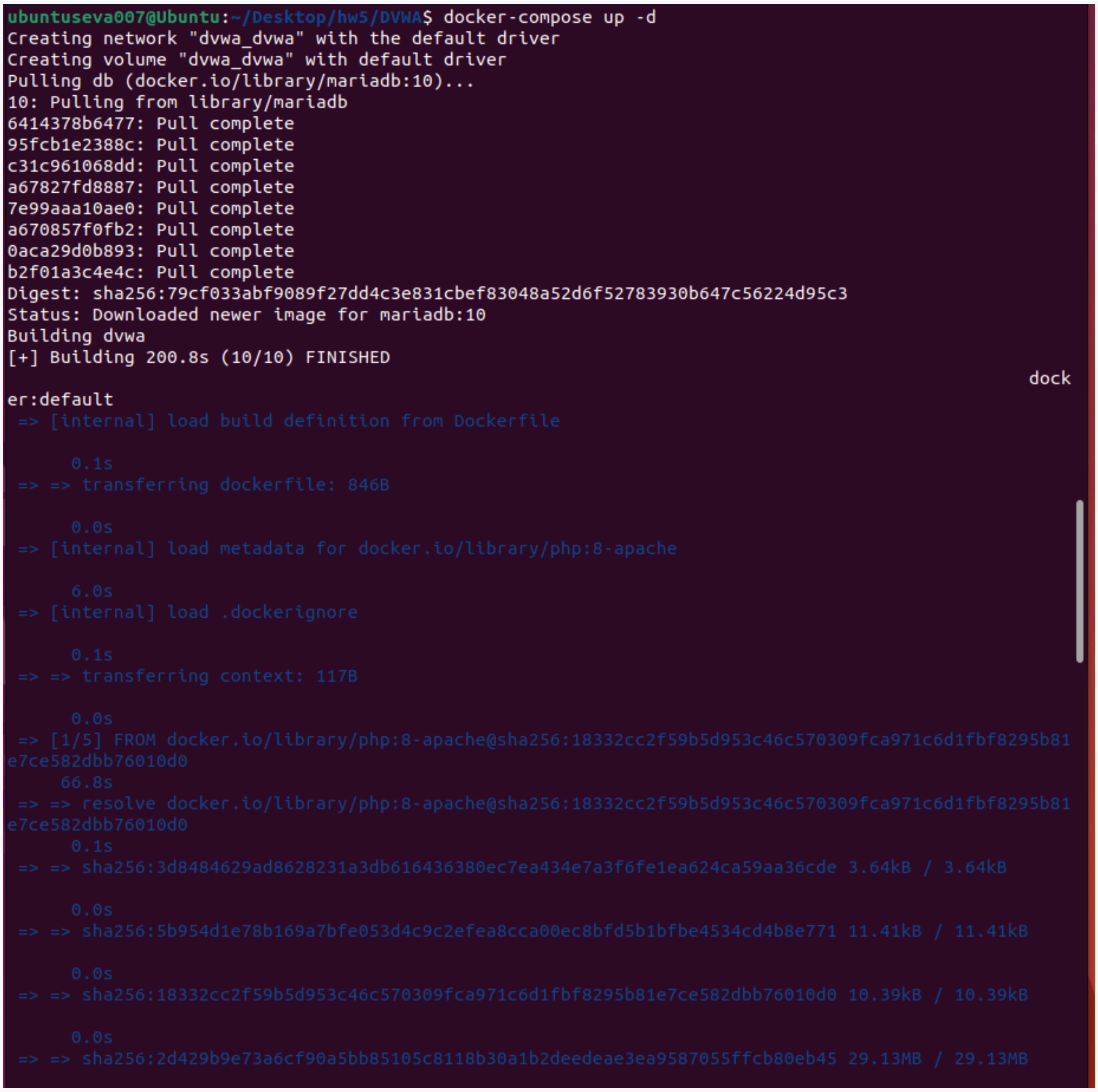
1) Клонирую репозиторий dvwa-docker

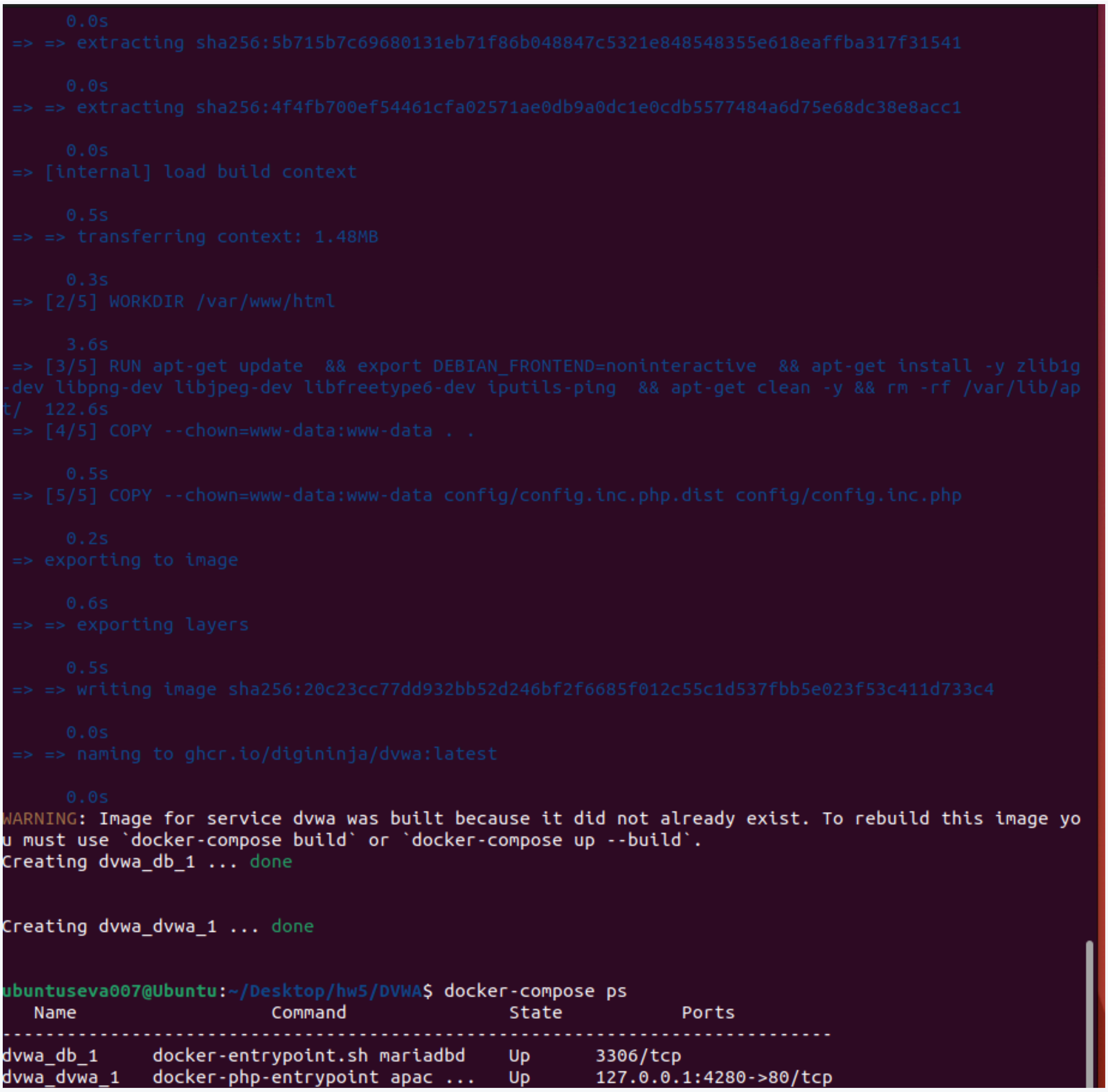


```
ubuntuseva007@Ubuntu:~/Desktop/hw5$ git clone https://github.com/digininja/DVWA.git
Cloning into 'DVWA'...
remote: Enumerating objects: 4895, done.
remote: Counting objects: 100% (55/55), done.
remote: Compressing objects: 100% (30/30), done.
remote: Total 4895 (delta 25), reused 41 (delta 20), pack-reused 4840 (from 1)
Receiving objects: 100% (4895/4895), 2.40 MiB | 1.20 MiB/s, done.
Resolving deltas: 100% (2377/2377), done.
ubuntuseva007@Ubuntu:~/Desktop/hw5$ cd DVWA/
```

2) Запускаю контейнер Docker с приложением dvwa

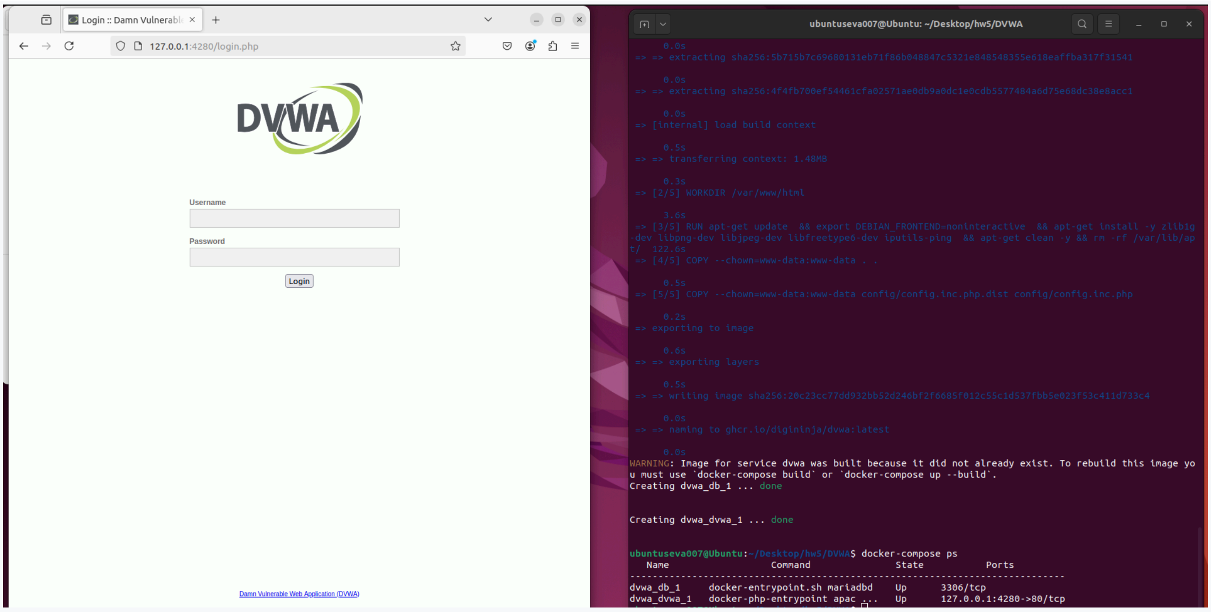


```
ubuntuseva007@Ubuntu:~/Desktop/hw5/DVWA$ docker-compose up -d
Creating network "dvwa_dvwa" with the default driver
Creating volume "dvwa_dvwa" with default driver
Pulling db (docker.io/library/mariadb:10)...
10: Pulling from library/mariadb
6414378b6477: Pull complete
95fcb1e2388c: Pull complete
c31c961068dd: Pull complete
a67827fd8887: Pull complete
7e99aaa10ae0: Pull complete
a670857f0fb2: Pull complete
0aca29d0b893: Pull complete
b2f01a3c4e4c: Pull complete
Digest: sha256:79cf033abf9089f27dd4c3e831cbef83048a52d6f52783930b647c56224d95c3
Status: Downloaded newer image for mariadb:10
Building dvwa
[+] Building 200.8s (10/10) FINISHED
                                                                                                   dock
er:default
 => [internal] load build definition from Dockerfile

      0.1s
 => => transferring dockerfile: 846B

      0.0s
 => [internal] load metadata for docker.io/library/php:8-apache

      6.0s
 => [internal] load .dockerignore

      0.1s
 => => transferring context: 117B

      0.0s
 => [1/5] FROM docker.io/library/php:8-apache@sha256:18332cc2f59b5d953c46c570309fca971c6d1fbf8295b81
e7ce582dbb76010d0
     66.8s
 => => resolve docker.io/library/php:8-apache@sha256:18332cc2f59b5d953c46c570309fca971c6d1fbf8295b81
e7ce582dbb76010d0
      0.1s
 => => sha256:3d8484629ad8628231a3db616436380ec7ea434e7a3f6fe1ea624ca59aa36cde 3.64kB / 3.64kB

      0.0s
 => => sha256:5b954d1e78b169a7bfe053d4c9c2efea8cca00ec8bfd5b1bfbe4534cd4b8e771 11.41kB / 11.41kB

      0.0s
 => => sha256:18332cc2f59b5d953c46c570309fca971c6d1fbf8295b81e7ce582dbb76010d0 10.39kB / 10.39kB

      0.0s
 => => sha256:2d429b9e73a6cf90a5bb85105c8118b30a1b2deedeae3ea9587055ffcb80eb45 29.13MB / 29.13MB
```

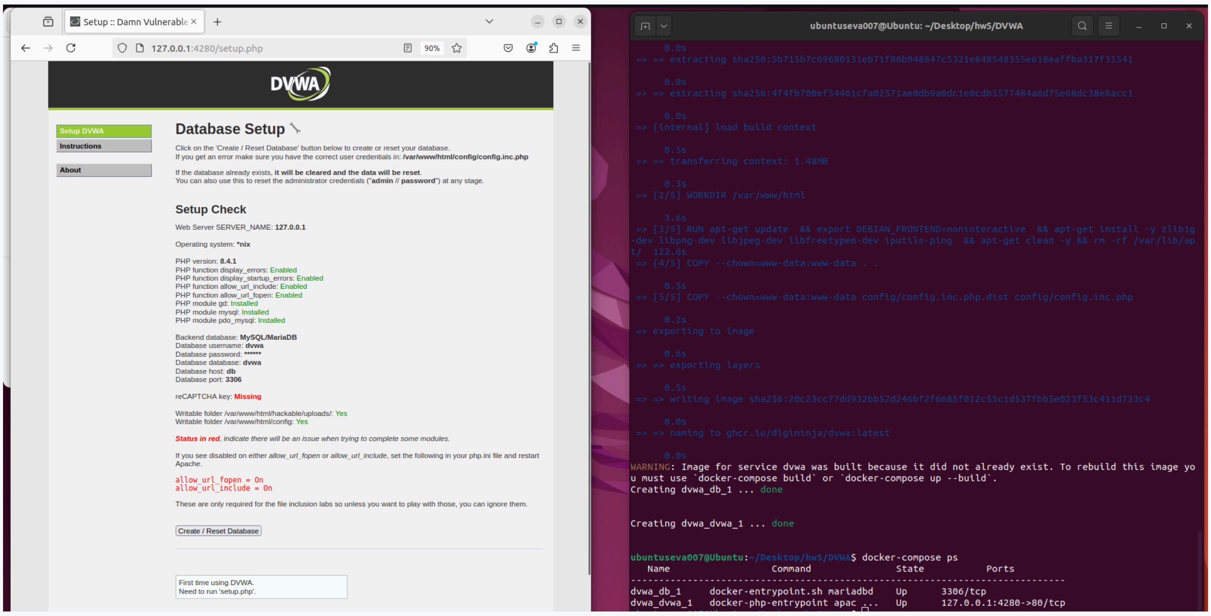


```
      0.0s
 => => extracting sha256:5b715b7c69680131eb71f86b048847c5321e848548355e618eaffba317f31541

      0.0s
 => => extracting sha256:4f4fb700ef54461cfa02571ae0db9a0dc1e0cdb5577484a6d75e68dc38e8acc1

      0.0s
 => [internal] load build context

      0.5s
 => => transferring context: 1.48MB

      0.3s
 => [2/5] WORKDIR /var/www/html

      3.6s
 => [3/5] RUN apt-get update  && export DEBIAN_FRONTEND=noninteractive  && apt-get install -y zlib1g
-dev libpng-dev libjpeg-dev libfreetype6-dev iputils-ping  && apt-get clean -y && rm -rf /var/lib/ap
t/  122.6s
 => [4/5] COPY --chown=www-data:www-data . .

      0.5s
 => [5/5] COPY --chown=www-data:www-data config/config.inc.php.dist config/config.inc.php

      0.2s
 => exporting to image

      0.6s
 => => exporting layers

      0.5s
 => => writing image sha256:20c23cc77dd932bb52d246bf2f6685f012c55c1d537fbb5e023f53c411d733c4

      0.0s
 => => naming to ghcr.io/digininja/dvwa:latest

      0.0s
WARNING: Image for service dvwa was built because it did not already exist. To rebuild this image yo
u must use `docker-compose build` or `docker-compose up --build`.
Creating dvwa_db_1 ... done


Creating dvwa_dvwa_1 ... done


ubuntuseva007@Ubuntu:~/Desktop/hw5/DVWA$ docker-compose ps
   Name                    Command               State           Ports
-----------------------------------------------------------------------------
dvwa_db_1     docker-entrypoint.sh mariadbd     Up      3306/tcp
dvwa_dvwa_1   docker-php-entrypoint apac ...    Up      127.0.0.1:4280->80/tcp
```

3) Проверяю в браузере работоспособность приложения


Login :: Damn Vulnerable
127.0.0.1:4280/login.php
DVWA
Username
Password
Login
Damn Vulnerable Web Application (DVWA)
ubuntuseva007@Ubuntu: ~/Desktop/hw5/DVWA

```
    0.0s
 => => extracting sha256:5b715b7c69680131eb71f86b048847c5321e848548355e618eaffba317f31541

    0.0s
 => => extracting sha256:4f4fb700ef54461cfa02571ae0db9a0dc1e0cdb5577484a6d75e68dc38e8acc1

    0.0s
 => [internal] load build context

    0.5s
 => => transferring context: 1.48MB

    0.3s
 => [2/5] WORKDIR /var/www/html

    3.6s
 => [3/5] RUN apt-get update  && export DEBIAN_FRONTEND=noninteractive  && apt-get install -y zlib1g
-dev libpng-dev libjpeg-dev libfreetype6-dev iputils-ping  && apt-get clean -y && rm -rf /var/lib/ap
t/  122.6s
 => [4/5] COPY --chown=www-data:www-data . .

    0.5s
 => [5/5] COPY --chown=www-data:www-data config/config.inc.php.dist config/config.inc.php

    0.2s
 => exporting to image

    0.6s
 => => exporting layers

    0.5s
 => => writing image sha256:20c23cc77dd932bb52d246bf2f6685f012c55c1d537fbb5e023f53c411d733c4

    0.0s
 => => naming to ghcr.io/digininja/dvwa:latest

    0.0s
WARNING: Image for service dvwa was built because it did not already exist. To rebuild this image yo
u must use `docker-compose build` or `docker-compose up --build`.
Creating dvwa_db_1 ... done


Creating dvwa_dvwa_1 ... done


ubuntuseva007@Ubuntu:~/Desktop/hw5/DVWA$ docker-compose ps
   Name                 Command               State            Ports
--------------------------------------------------------------------------------
dvwa_db_1     docker-entrypoint.sh mariadbd    Up      3306/tcp
dvwa_dvwa_1   docker-php-entrypoint apac ...   Up      127.0.0.1:4280->80/tcp
```



Database Setup

Click on the 'Create / Reset Database' button below to create or reset your database.
If you get an error make sure you have the correct user credentials in: **/var/www/html/config/config.inc.php**

If the database already exists, **it will be cleared and the data will be reset**.
You can also use this to reset the administrator credentials ("**admin** // **password**") at any stage.

Setup Check

Web Server SERVER_NAME: **127.0.0.1**

Operating system: ***nix**

PHP version: **8.4.1**
PHP function display_errors: Enabled
PHP function display_startup_errors: Enabled
PHP function allow_url_include: Enabled
PHP function allow_url_fopen: Enabled
PHP module gd: Installed
PHP module mysql: Installed
PHP module pdo_mysql: Installed

Backend database: **MySQL/MariaDB**
Database username: **dvwa**
Database password: **********
Database database: **dvwa**
Database host: **db**
Database port: **3306**

reCAPTCHA key: **Missing**

Writable folder /var/www/html/hackable/uploads/: Yes
Writable folder /var/www/html/config: Yes

Status in red*, indicate there will be an issue when trying to complete some modules.*

If you see disabled on either *allow_url_fopen* or *allow_url_include*, set the following in your php.ini file and restart Apache.

```
allow_url_fopen = On
allow_url_include = On
```

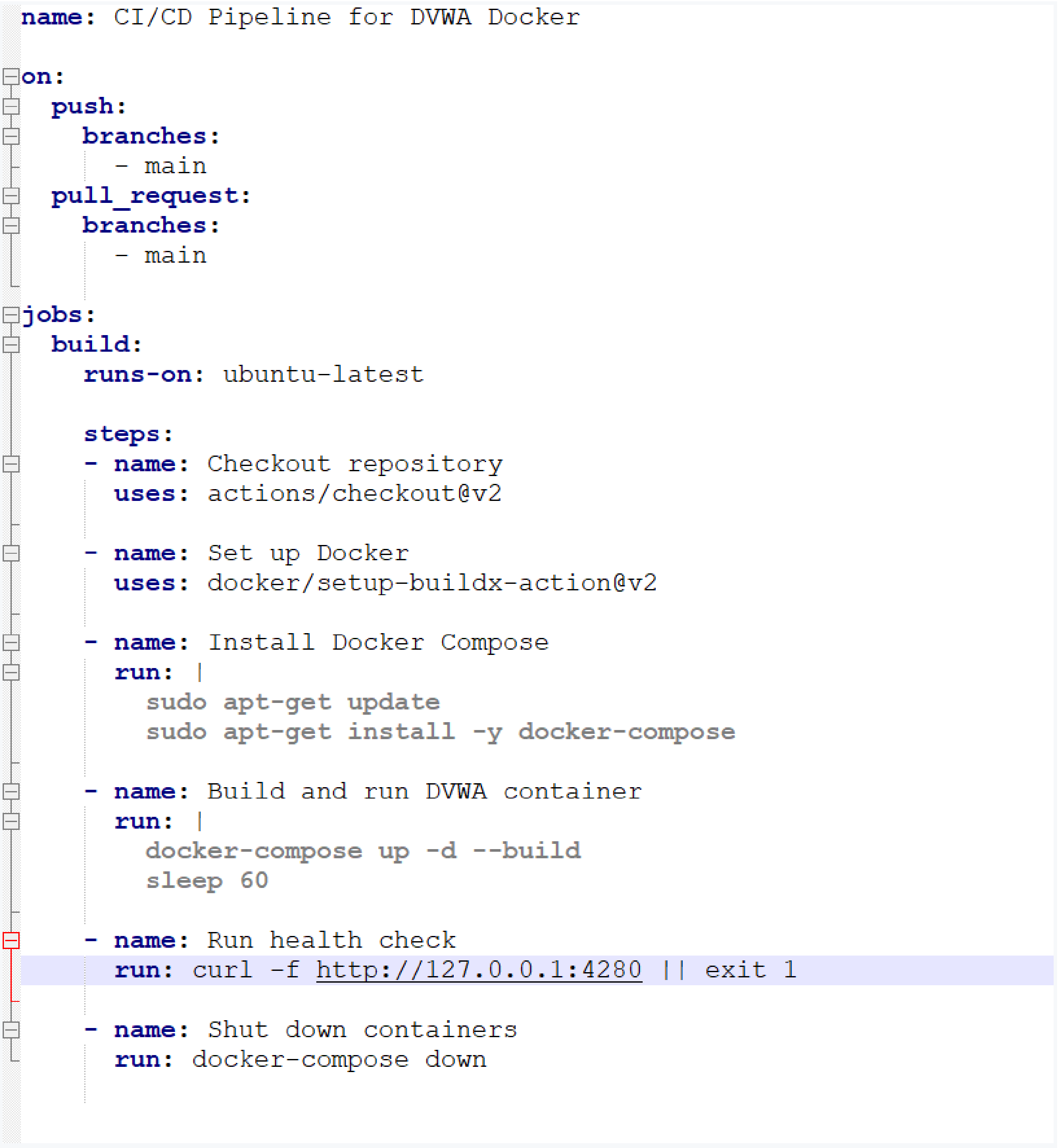
These are only required for the file inclusion labs so unless you want to play with those, you can ignore them.

Create / Reset Database

First time using DVWA.
Need to run 'setup.php'.

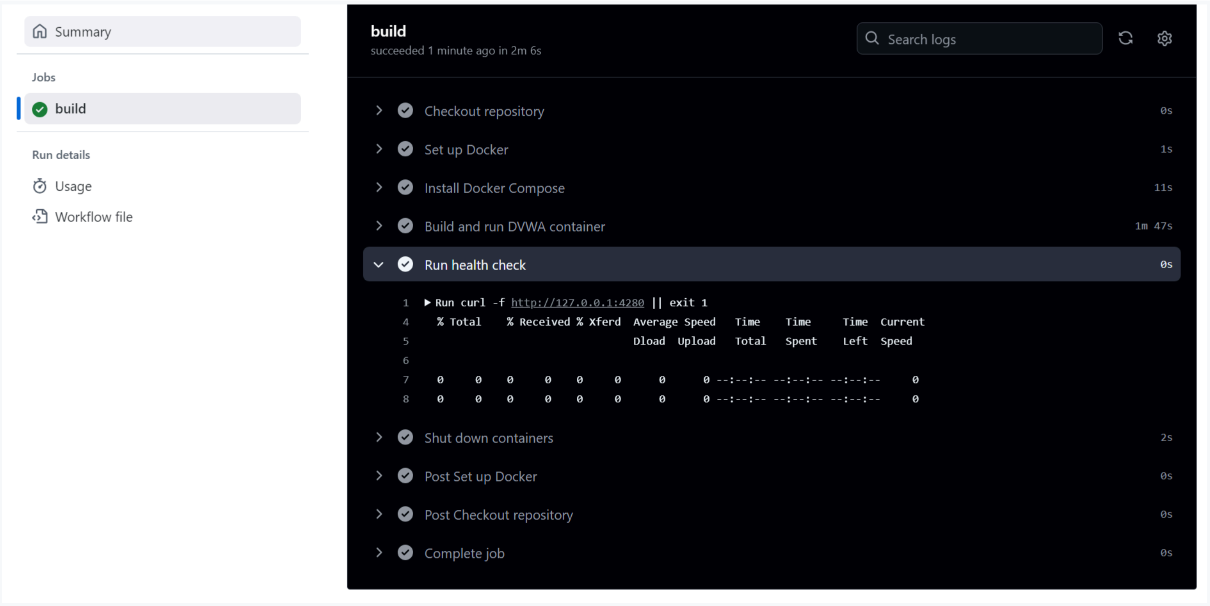
```
    0.0s
 => => extracting sha256:5b715b7c69680131eb71f86b048847c5321e848548355e618eaffba317f31541

    0.0s
 => => extracting sha256:4f4fb700ef54461cfa02571ae0db9a0dc1e0cdb5577484a6d75e68dc38e8acc1

    0.0s
 => [internal] load build context

    0.5s
 => => transferring context: 1.48MB

    0.3s
 => [2/5] WORKDIR /var/www/html

    3.6s
 => [3/5] RUN apt-get update  && export DEBIAN_FRONTEND=noninteractive  && apt-get install -y zlib1g
-dev libpng-dev libjpeg-dev libfreetype6-dev iputils-ping  && apt-get clean -y && rm -rf /var/lib/ap
t/  122.6s
 => [4/5] COPY --chown=www-data:www-data . .

    0.5s
 => [5/5] COPY --chown=www-data:www-data config/config.inc.php.dist config/config.inc.php

    0.2s
 => exporting to image

    0.6s
 => => exporting layers

    0.5s
 => => writing image sha256:20c23cc77dd932bb52d246bf2f6685f012c55c1d537fbb5e023f53c411d733c4

    0.0s
 => => naming to ghcr.io/digininja/dvwa:latest

    0.0s
WARNING: Image for service dvwa was built because it did not already exist. To rebuild this image yo
u must use `docker-compose build` or `docker-compose up --build`.
Creating dvwa_db_1 ... done


Creating dvwa_dvwa_1 ... done


ubuntuseva007@Ubuntu:~/Desktop/hw5/DVWA$ docker-compose ps
   Name                 Command               State            Ports
--------------------------------------------------------------------------------
dvwa_db_1     docker-entrypoint.sh mariadbd    Up      3306/tcp
dvwa_dvwa_1   docker-php-entrypoint apac ...   Up      127.0.0.1:4280->80/tcp
```

4) Файл ci-cd.yml



```yaml
name: CI/CD Pipeline for DVWA Docker

on:
  push:
    branches:
      - main
  pull_request:
    branches:
      - main

jobs:
  build:
    runs-on: ubuntu-latest

    steps:
    - name: Checkout repository
      uses: actions/checkout@v2

    - name: Set up Docker
      uses: docker/setup-buildx-action@v2

    - name: Install Docker Compose
      run: |
        sudo apt-get update
        sudo apt-get install -y docker-compose

    - name: Build and run DVWA container
      run: |
        docker-compose up -d --build
        sleep 60

    - name: Run health check
      run: curl -f http://127.0.0.1:4280 || exit 1

    - name: Shut down containers
      run: docker-compose down
```

5) Скриншот успешного цикла CI/CD для проекта dvwa-docker



build

succeeded 1 minute ago in 2m 6s

- Checkout repository 0s
- Set up Docker 1s
- Install Docker Compose 11s
- Build and run DVWA container 1m 47s
- Run health check 0s

```
▶ Run curl -f http://127.0.0.1:4280 || exit 1
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed

  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--     0
  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--     0
```

- Shut down containers 2s
- Post Set up Docker 0s
- Post Checkout repository 0s
- Complete job 0s

Ссылка на этот проект - https://github.com/Vsevolod-coding/Java-Core-CI-CD.git