

Лабораторная работа №7:

1. Клонирование репозитория

```
PS C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\III курс\Программирование Python, з курс\ЛР-7> git clone https://github.com/A1adriel/counter-deploy
Cloning into 'counter-deploy'...
remote: Enumerating objects: 108, done.
remote: Counting objects: 100% (108/108), done.
remote: Compressing objects: 100% (80/80), done.
remote: Total 108 (delta 44), reused 28 (delta 6), pack-reused 0 (from 0)
Receiving objects: 100% (108/108), 32.54 KiB | 1.30 MiB/s, done.
Resolving deltas: 100% (44/44), done.
PS C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\III курс\Программирование Python, з курс\ЛР-7> 
```

2. Установка зависимостей

```
PS C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцене\III курс\Программирование Python, 3 курс\VIP-7\counter-deploy\backend> pip install -r requirements.txt
Collecting Flask==2.2.5 (from -r requirements.txt (line 1))
  Downloading Flask-2.2.5-py3-none-any.whl.metadata (3.9 kB)
Collecting gunicorn==20.1.0 (from -r requirements.txt (line 2))
  Downloading gunicorn-20.1.0-py3-none-any.whl.metadata (3.8 kB)
Collecting redis==4.6.0 (from -r requirements.txt (line 3))
  Downloading redis-4.6.0-py3-none-any.whl.metadata (8.3 kB)
Collecting Flask-Cors==3.0.10 (from -r requirements.txt (line 4))
  Downloading Flask_Cors-3.0.10-py2.py3-none-any.whl.metadata (5.4 kB)
Collecting python-dotenv==1.0.0 (from -r requirements.txt (line 5))
  Downloading python_dotenv-1.0.0-py3-none-any.whl.metadata (21 kB)
Collecting requests==2.31.0 (from -r requirements.txt (line 6))
  Downloading requests-2.31.0-py3-none-any.whl.metadata (4.6 kB)
Collecting Werkzeug>2.2.2 (from Flask==2.2.5->-r requirements.txt (line 1))
  Using cached werkzeug-3.1.4-py3-none-any.whl.metadata (4.0 kB)
```

```
Downloading Flask-2.2.5-py3-none-any.whl (101 kB)
Downloading gunicorn-20.1.0-py3-none-any.whl (79 kB)
Downloading redis-4.6.0-py3-none-any.whl (241 kB)
Downloading Flask_Cors-3.0.10-py2.py3-none-any.whl (14 kB)
Downloading python_dotenv-1.0.0-py3-none-any.whl (19 kB)
Downloading requests-2.31.0-py3-none-any.whl (62 kB)
Using cached werkzeug-3.1.4-py3-none-any.whl (224 kB)
Installing collected packages: Werkzeug, requests, redis, python-dotenv, gunicorn, Flask, Flask-Cors
  Attempting uninstall: Werkzeug
    Found existing installation: Werkzeug 2.0.3
    Uninstalling Werkzeug-2.0.3:
      Successfully uninstalled Werkzeug-2.0.3
  Attempting uninstall: requests
    Found existing installation: requests 2.32.3
    Uninstalling requests-2.32.3:
      Successfully uninstalled requests-2.32.3
  Attempting uninstall: Flask
    Found existing installation: Flask 2.0.3
    Uninstalling Flask-2.0.3:
      Successfully uninstalled Flask-2.0.3
Successfully installed Flask-2.2.5 Flask-Cors-3.0.10 Werkzeug-3.1.4 gunicorn-20.1.0 python-dotenv-1.0.0 redis-4.6.0 requests-2.31.0
PS C:\Users\sambu\OneDrive\Рабочий стол\Учеба в ГерценаЙIII курс\Программирование Python, 3 курс\VIP-7\counter-deploy>
```

3. Запуск программы

```
PS C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\III курс\Программирование Python, З курс\ЛР-7\counter-deploy> docker compose up --build
Compose can now delegate builds to bake for better performance.
To do so, set COMPOSE_BAKE=true.
[+] Building 1.8s (22/22) FINISHED
   □ [app] ✓ RECEIVING PROVENANCE FOR INCLUDED FILE
[+] Running 3/3
  ✓ app                                Built
  ✓ Container counter-deploy-redis-1    Created
  ✓ Container counter-deploy-app-1      Recreated
Attaching to app-1, redis-1
```

localhost:8000 Счётчик (by Zhukov) ... Спросить А

Счётчик

Значение: 17

- + Сброс

Запуск приложения на Play with docker

1. Клонирование репозитория

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock icon (01:57:31), a 'CLOSE SESSION' button, and sections for 'Instances' (with a plus icon to add a new instance) and 'GIVE FEEDBACK'. The main area displays session details for a container with ID `d55qpba9_d55qpcq91nsg00fgddd0`. It shows the IP as `192.168.0.34`, an 'OPEN PORT' button, Memory usage of `1.10% (44.14MiB / 3.906GiB)`, and CPU usage of `0.18%`. Below this is an SSH terminal window with the command `ssh ip172-18-0-26-d55qpba91nsg00fgddcg@direct.labs.pl` and a copy icon. At the bottom, there are 'DELETE' and 'EDITOR' buttons, and a scrollable terminal log:

```
#####
#           WARNING!!!!
# This is a sandbox environment. Using personal credentials
# is HIGHLY! discouraged. Any consequences of doing so are
# completely the user's responsibilites.
#
# The PWD team.
#####
[node1] (local) root@192.168.0.34 ~
$ git clone https://github.com/Aladriel/counter-deploy
Cloning into 'counter-deploy'...
remote: Enumerating objects: 108, done.
remote: Counting objects: 100% (108/108), done.
remote: Compressing objects: 100% (80/80), done.
remote: Total 108 (delta 44), reused 28 (delta 6), pack-reused 0 (from 0)
Receiving objects: 100% (108/108), 32.54 KiB | 2.50 MiB/s, done.
Resolving deltas: 100% (44/44), done.
[node1] (local) root@192.168.0.34 ~
$
```

2. Запуск программы

```
✓ cd counter-deploy
[node1] (local) root@192.168.0.34 ~/counter-deploy
$ docker-compose up -d
[+] Running 9/9
 ✓ redis Pulled
 ✓ f637881d1138 Pull complete   3.8s
 ✓ 60c57c0072ef Pull complete   0.8s
 ✓ fc4343b4accd Pull complete   0.9s
 ✓ 380e8aa8b1fd Pull complete   1.2s
 ✓ c70aae7b5e0d Pull complete   1.3s
 ✓ 232f7549c9b0 Pull complete   2.0s
 ✓ 4f4fb700ef54 Pull complete   2.0s
 ✓ d75b3becd998 Pull complete   2.1s
[+] Building 63.0s (19/20)
[+] Building 63.3s (19/20)
[+] Building 67.2s (22/22) FINISHED
=> [app internal] load build definition from Dockerfile      docker:default
=> => transferring dockerfile: 858B                           docker:default
=> WARN: FromAsCasing: 'as' and                               0.0s
=> [app internal] load metadata                            0.0s
=> [app internal] load metadata for docker.io/library/noe:18    1.4s
We'd love to hear about your usage of Play with Docker. Please take a moment to fill out our survey. TAKE SURVEY NOT NOW
```

Счётчик

Значение: **6**