Docker Orchestration

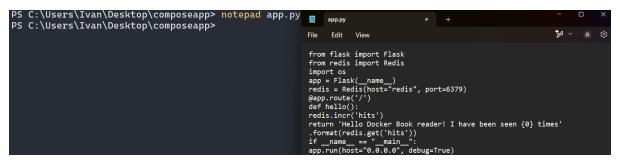
docker-compose -version

PS C:\Users\Ivan> docker-compose --version Docker Compose version v2.26.1-desktop.1

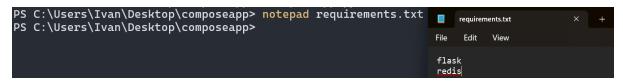
mkdir composeapp

cd composeapp

notepad app.py



notepad requirements.txt



notepad Dockerfile



docker build -t ivkeex/composeapp.

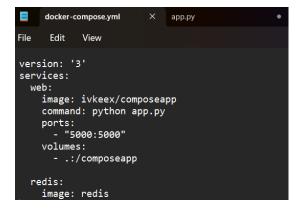
docker images

```
PS C:\Users\Ivan\Desktop\composeapp> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ivkeex/composeapp latest 33e593a73b08 14 seconds ago 907MB
```

notepad docker-compose.yml

```
PS C:\Users\Ivan\Desktop\composeapp> notepad docker-compose.yml
                                                                                docker-compose.yml
PS C:\Users\Ivan\Desktop\composeapp>
                                                                                File
                                                                                    Edit View
                                                                                version: '3'
                                                                                services:
                                                                                web:
                                                                                image: ivkeex/composeapp
                                                                                command: python app.py
                                                                                ports:
                                                                                 - "5000:5000"
                                                                                volumes:
                                                                                - .:/composeapp
                                                                                redis:
                                                                                image: redis
```

Indendation Fixed

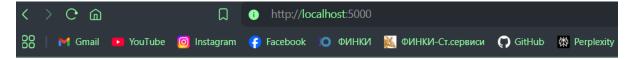


```
docker-compose.yml
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from flask import Flask
from redis import Redis
import os
app = Flask(__name__)
redis = Redis(host="redis", port=6379)
@app.route('/')
def hello():
redis.incr('hits')
  return 'Hello Docker Book reader! I have been seen {0}
times'.format(redis.get('hits'))
if __name__ == "__main__":
    app.run(host="0.0.0.0", debug=True)
```

docker-compose up

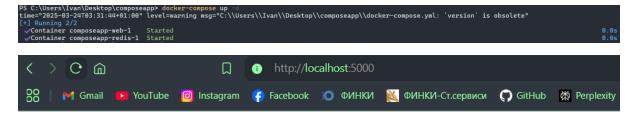
```
Container composeapp-redis-1 Stopped
Container composeapp-web-1 Stopped
```

http://localhost:5000/



Hello Docker Book reader! I have been seen 1 times

docker-compose up -d



Hello Docker Book reader! I have been seen 10 times

docker-compose ps

```
PS C:\Users\Ivan\Desktop\composeapp> docker-compose ps
time="2025-03-24T03:33:17+01:00" level=warning msg="C:\\Users\\Ivan\\Desktop\\composeapp\\docker-compose.yml: `version` is obsolete"

NAME IMAGE COMMAND SERVICE CREATED STATUS PORTS

composeapp-redis-1 redis "docker-entrypoint.s..." redis 7 minutes ago Up About a minute 6379/tcp
composeapp-web-1 ivkeex/composeapp "python app.py" web 7 minutes ago Up About a minute 0.0.0.0:5000->5000/tcp
```

docker-compose logs

. . .

docker-compose stop | docker-compose kill

docker-compose rm

```
PS C:\Users\Ivan\Desktop\composeapp> docker-compose rm
? Going to remove composeapp-web-1, composeapp-redis-1 Yes
[+] Removing 2/0e composeapp-web-1, composeapp-redis-1 (y/N) y

Container composeapp-redis-1 Removed

Container composeapp-web-1 Removed
```