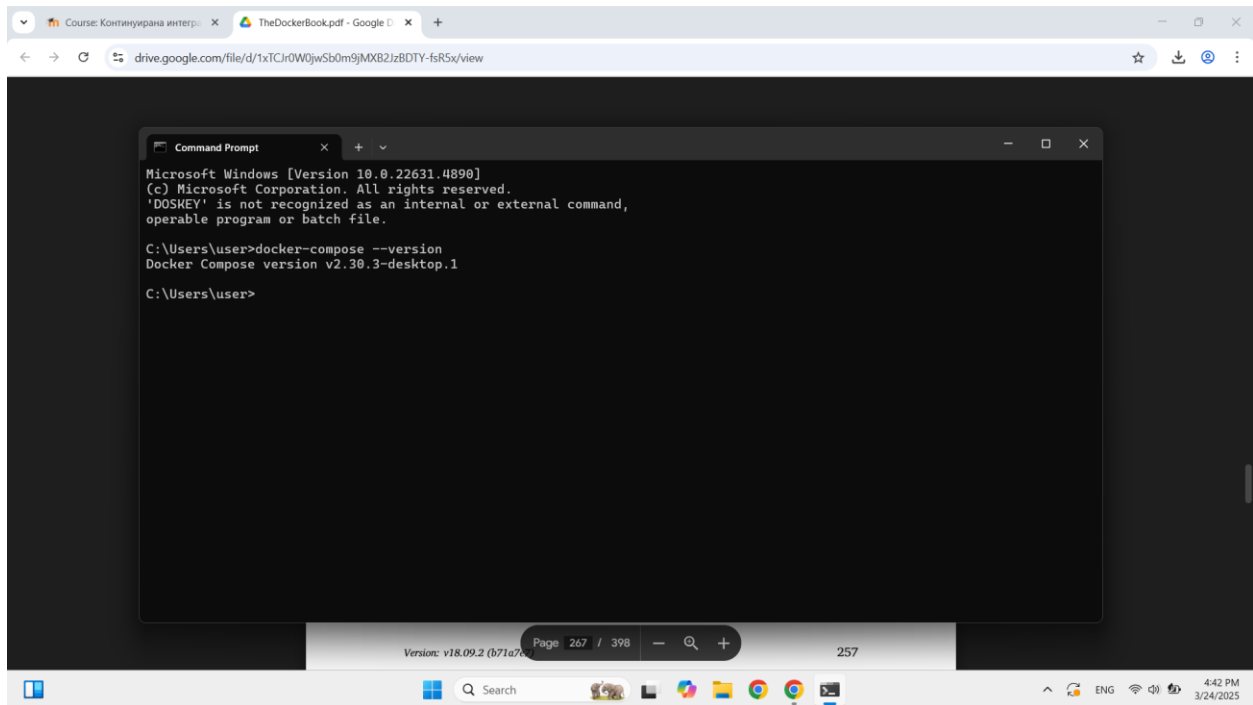


Трета домашна работа по Континуирана интеграција и испорака

- Командата `docker compose --version` се користи за да ја прикажеме верзијата на инсталираната Docker Compose апликација.

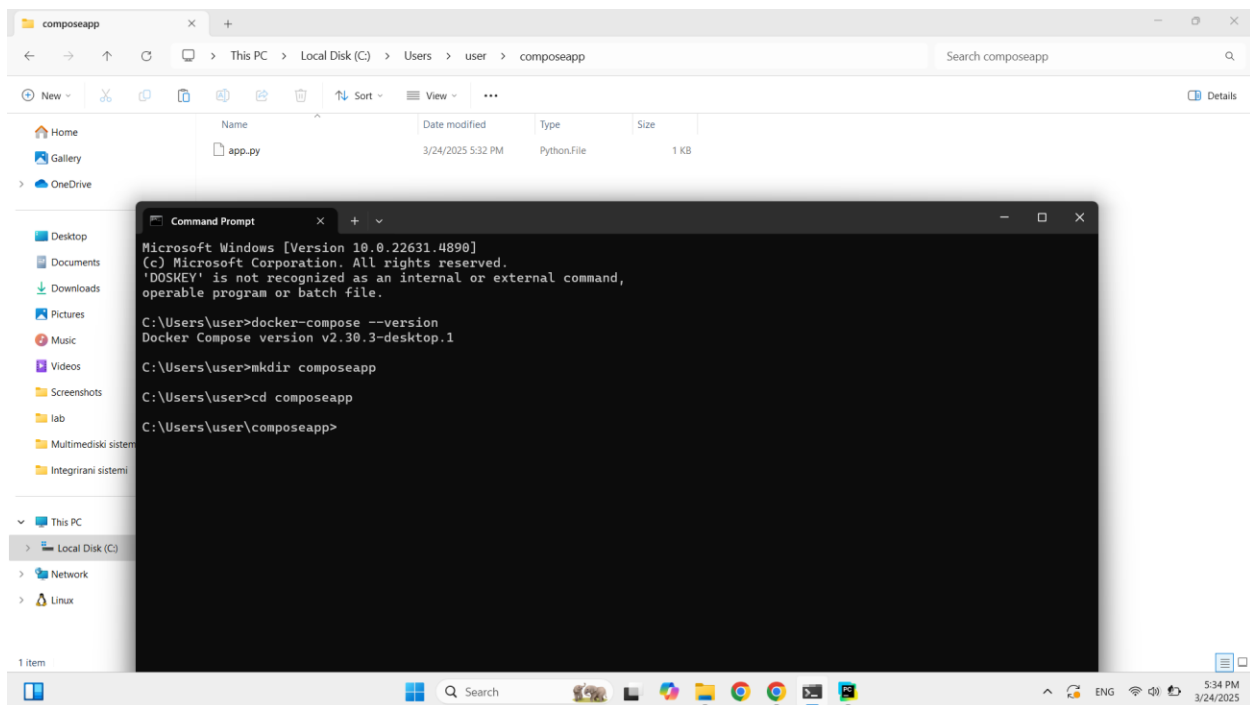


```
Microsoft Windows [Version 10.0.22631.4898]
(c) Microsoft Corporation. All rights reserved.
'DOSKEY' is not recognized as an internal or external command,
operable program or batch file.

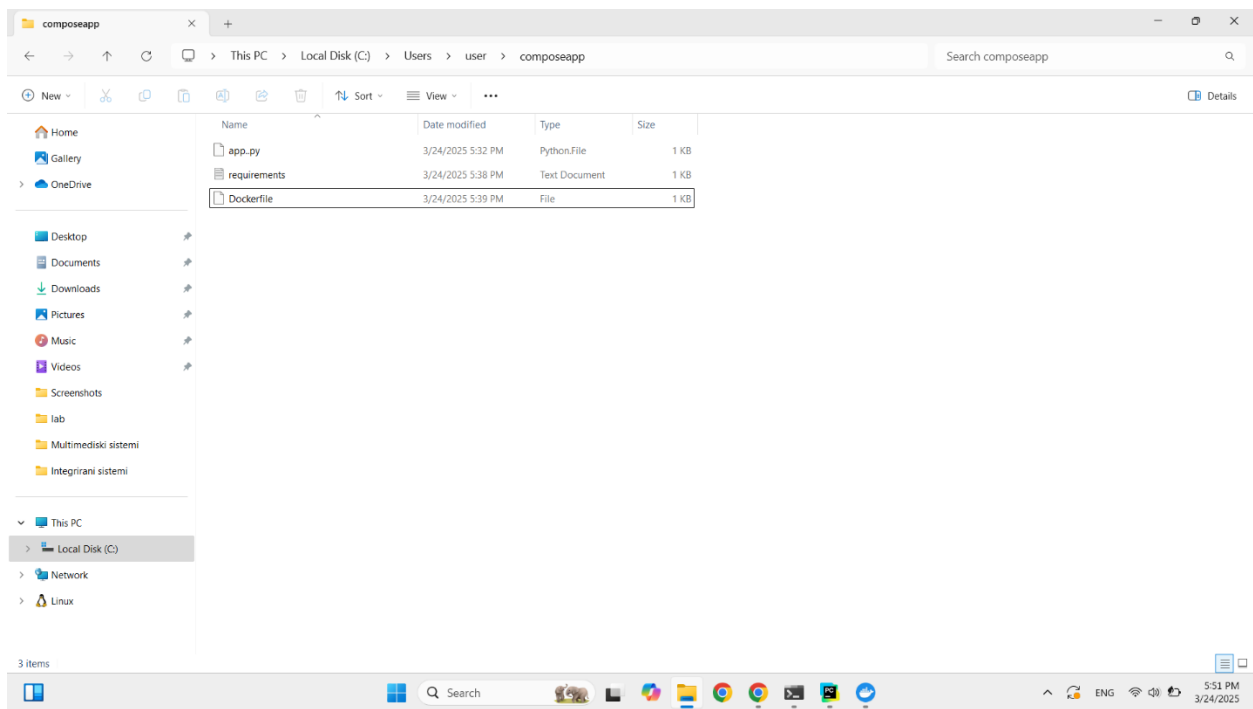
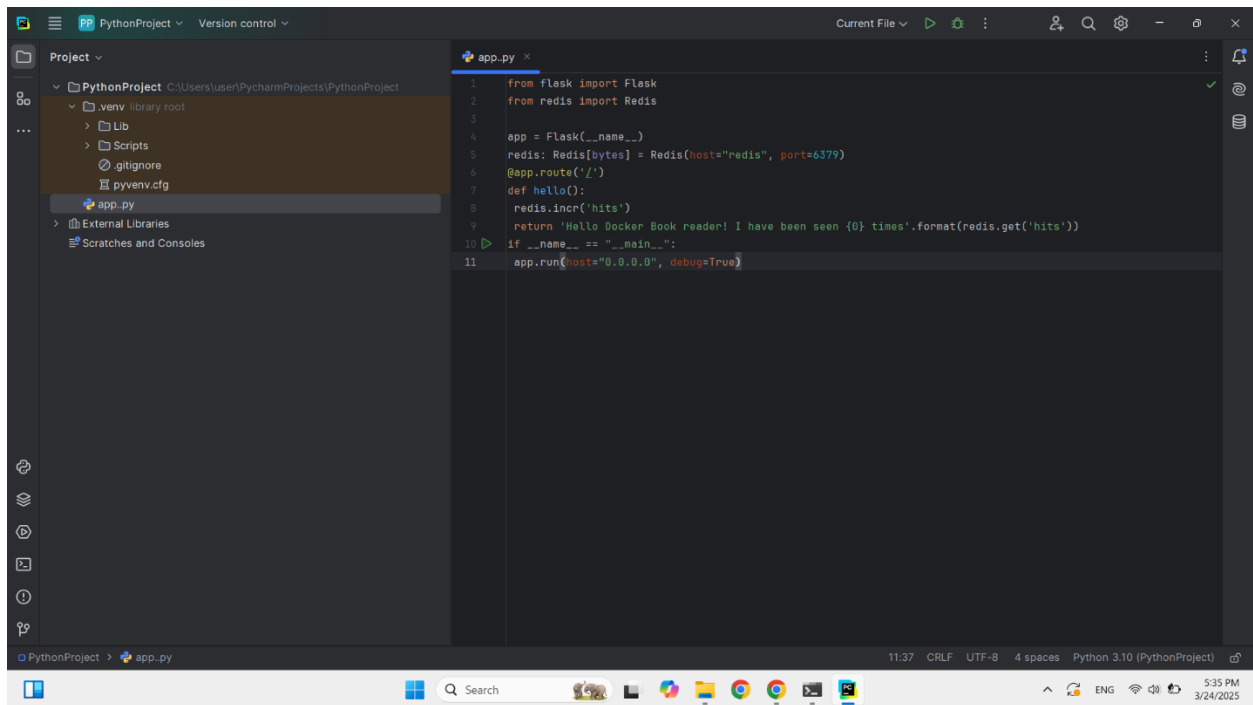
C:\Users\user>docker-compose --version
Docker Compose version v2.30.3-desktop.1

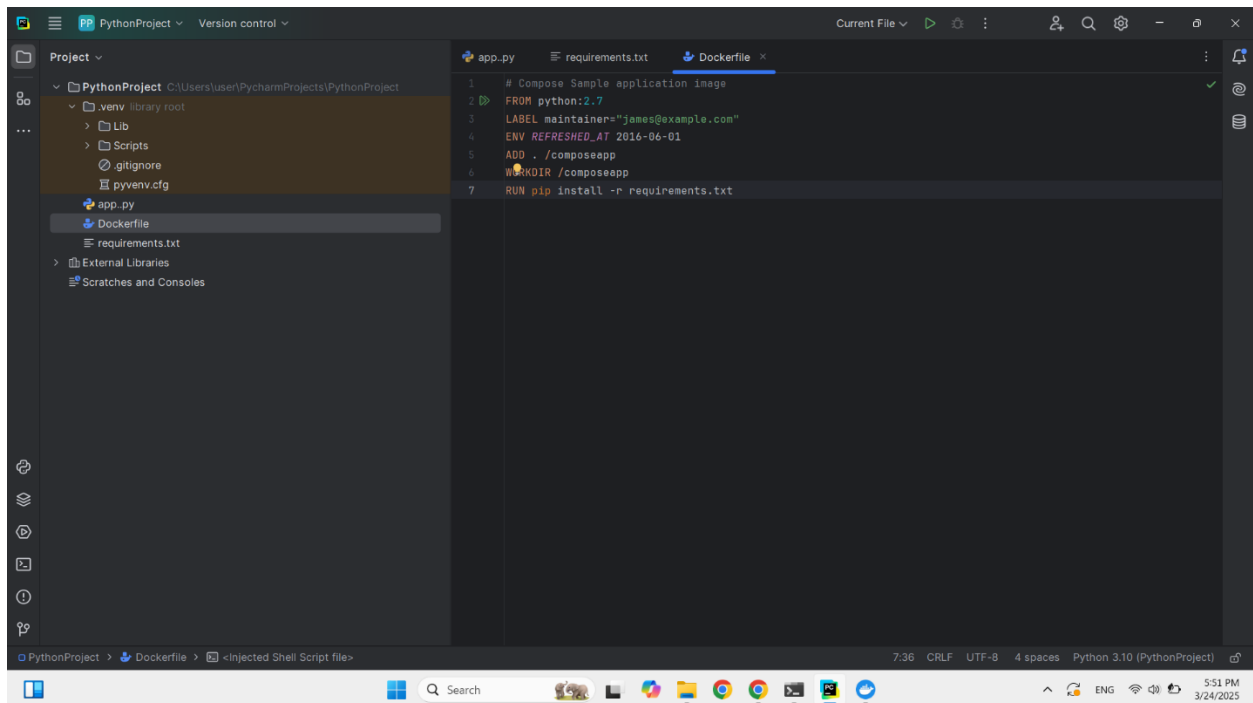
C:\Users\user>
```

- `mkdir composeapp`: Оваа команда ќе создаде нов директориум со името `composeapp`.
- `cd composeapp`: Оваа команда ќе не премести во директориумот `composeapp` што го создадовме во претходниот чекор.

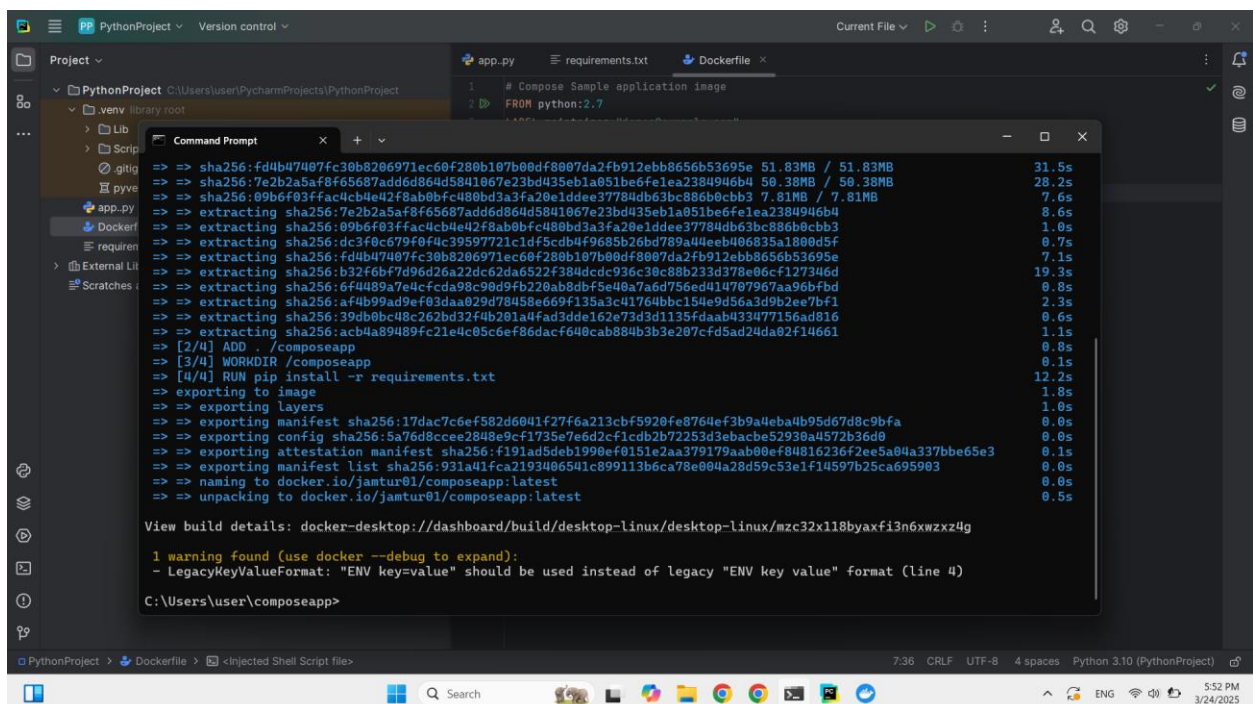


- На следната слика се прикажани додадените фајлови во директориумот `composeapp` и содржината на `app.py` и `Dockerfile`.





- Командата `docker build -t jamtur01/composeapp .` служи за креирање на Docker слика (image) од Dockerfile во тековниот директориум и означување на сликата со име `jamtur01/composeapp`.



- Командата `touch docker-compose.yml` се користи за создавање на нов фајл со име `docker-compose.yml` во тековниот директориум.

```

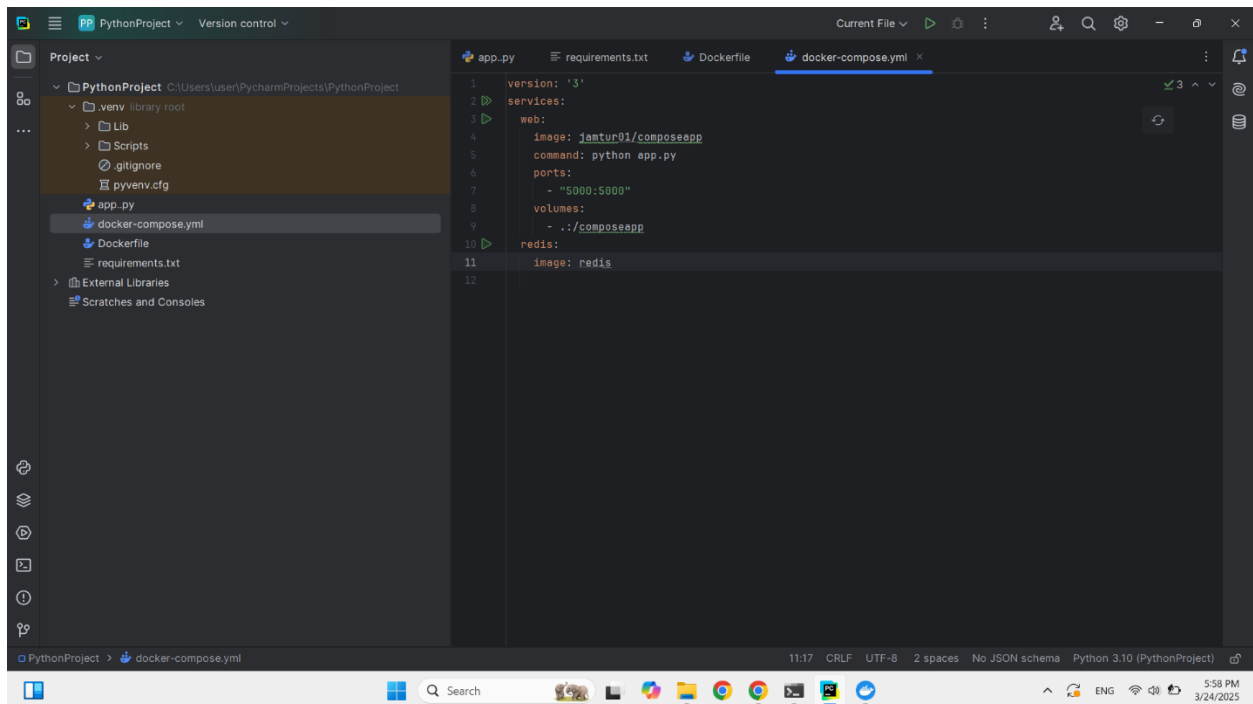
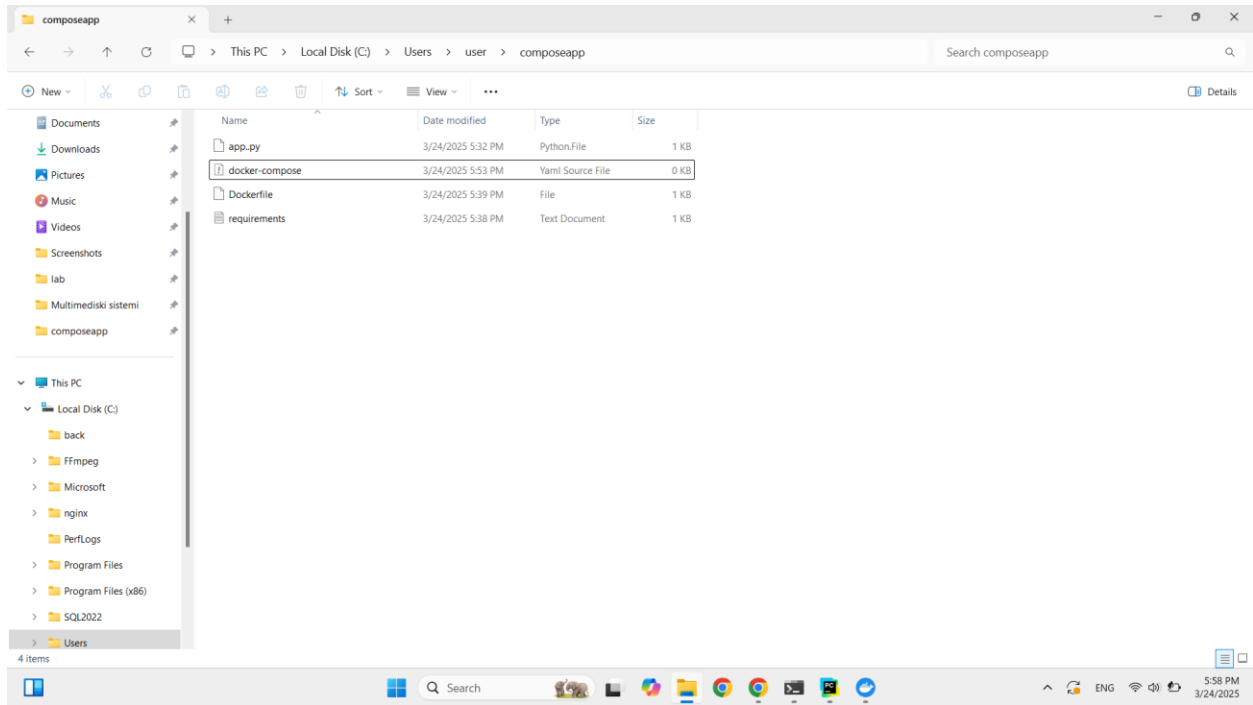
C:\Users\user> docker build -t jamtur01/composeapp:latest .
[+] Building 261.0s (to build)
=> sha256:09b6f03ffac4cb4e42f8ab0bfc480bd3a3fa20e1ddee37784db63bc886b0cbb3 7.81MB / 7.81MB 7.6s
=> extracting sha256:7e2b2a5af8f65687add6d864d5841067e23bd435eb1a051be6fe1ea2384946b4 8.6s
=> extracting sha256:09b6f03ffac4cb4e42f8ab0bfc480bd3a3fa20e1ddee37784db63bc886b0cbb3 1.0s
=> extracting sha256:dc3f0c679f0f4c39597721c1df5cbb4f9685b26bd789a44eeb406835a180d5f 0.7s
=> extracting sha256:fd4b47407fc30b8206971ec60f280b107b00df8007da2fb912ebb8656b53695e 7.1s
=> extracting sha256:b32f6bf7d96d26a22dc62da6522f384dcd936c30c88b233d378e06cf127346d 19.3s
=> extracting sha256:6f4489a7e4cfcda98c90d9fb220ab8dbf5e40a7a6d756ed414707967aa96bfbfd 0.8s
=> extracting sha256:f4b99ad9ef93daa020d78058e669f1353c41764bbc154e9d56a2d9b2ee7bf1 2.3s
=> extracting sha256:394b0bc48c262b32f4b201a4fad3dde162c73d3d1135fdaab433d77156ad816 0.6s
=> extracting sha256:acb4a89489fc21e4c05c6ef86daf640cab884b3b3e207cfd5ad24da02f14661 1.1s
[2/4] ADD . /composeapp 0.8s
[3/4] WORKDIR /composeapp 0.1s
[4/4] RUN pip install -r requirements.txt 12.2s
=> exporting to image 1.8s
=> exporting layers 1.0s
=> exporting manifest sha256:17dac7c6ef582d6041f27f6a213cbf5920fe8764ef3b9a4eba4b95d67d8c9bfa 0.0s
=> exporting config sha256:5a76d8ccee2848e9cf1735e7e6d2cf1c0b2b72253d3ebacbe52930a4572b36d0 0.0s
=> exporting attestation manifest sha256:f191ad5deb1990ef0151e2aa379179aab00ef84816236f2ee5a04a337b6e65e3 0.1s
=> exporting manifest list sha256:931a41fca2193406541c899113b6ca78e004a28d59c53e1f14597b25ca695903 0.0s
=> naming to docker.io/jamtur01/composeapp:latest 0.0s
=> unpacking to docker.io/jamtur01/composeapp:latest 0.5s

View build details: docker-desktop:///dashboard/build/desktop-linux/desktop-linux/mzc32x118byaxfi3n6wxzx24g

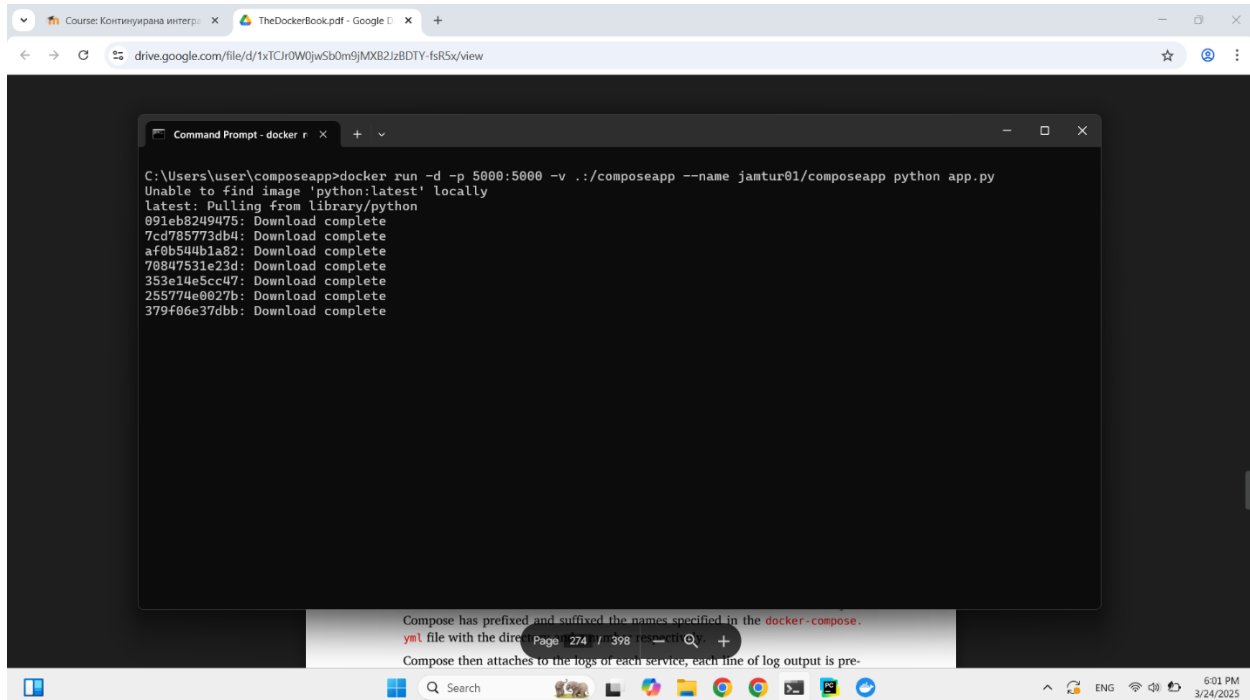
1 warning found (use docker --debug to expand):
- LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 4)

C:\Users\user\composeapp> touch docker-compose.yml
C:\Users\user\composeapp>
  
```

- На следните слики е прикажан `docker-compose.yml` во директориумот заедно со другите фајлови и неговата содржина.



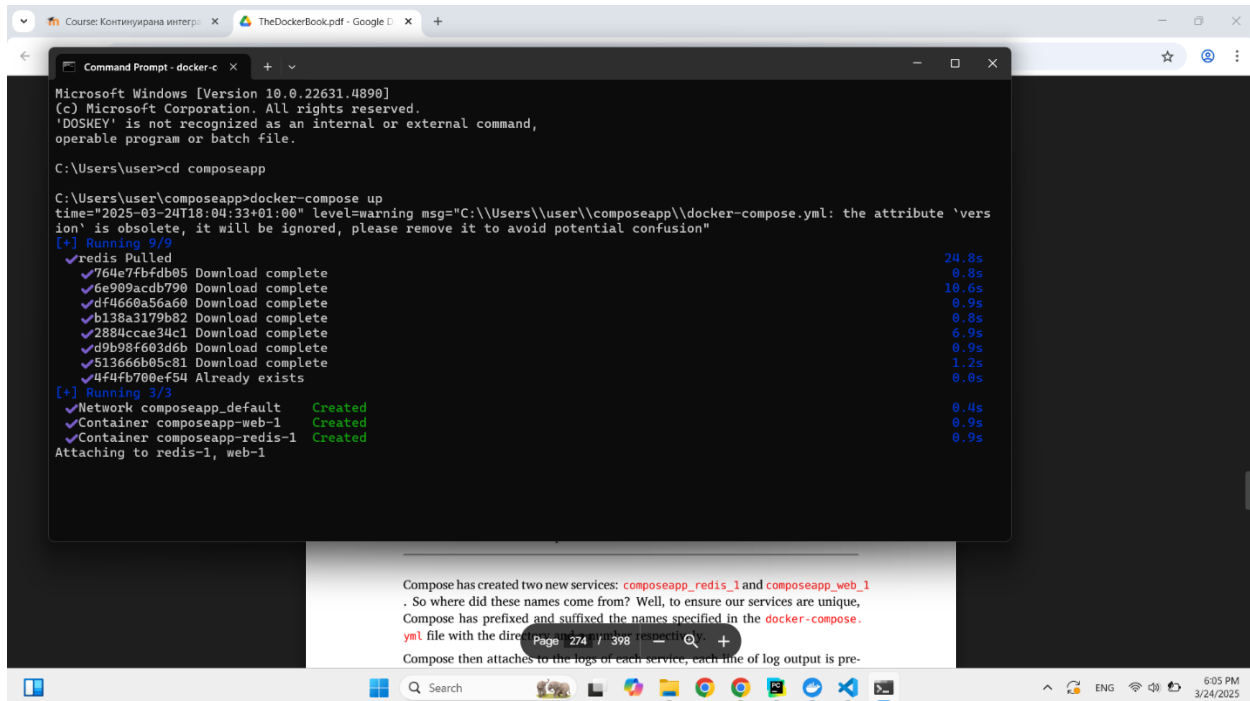
- Командата `docker run -d -p 5000:5000 -v ./composeapp --name jamtur01/composeapp python app.py` се користи за стартување на нов Docker контејнер во позадина со неколку конфигурации.



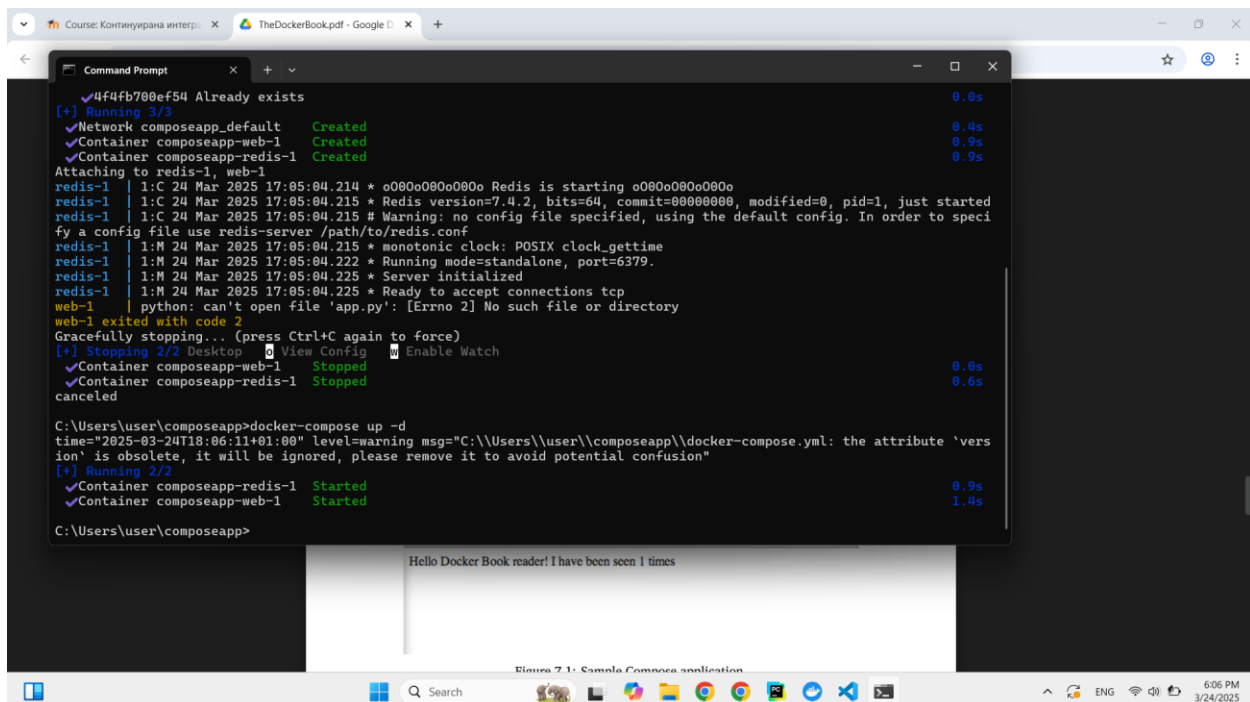
```
C:\Users\user\composeapp>docker run -d -p 5000:5000 -v ./composeapp --name jamtur01/composeapp python app.py
Unable to find image 'python:latest' locally
latest: Pulling from library/python
091eb8249475: Download complete
7cd785773db4: Download complete
af0b544b1a82: Download complete
70847531e23d: Download complete
353e14a5ec47: Download complete
255774e027b: Download complete
379f06e37dbb: Download complete
```

Compose has prefixed and suffixed the names specified in the `docker-compose.yml` file with the directory name. Compose then attaches to the logs of each service, each line of log output is pre-

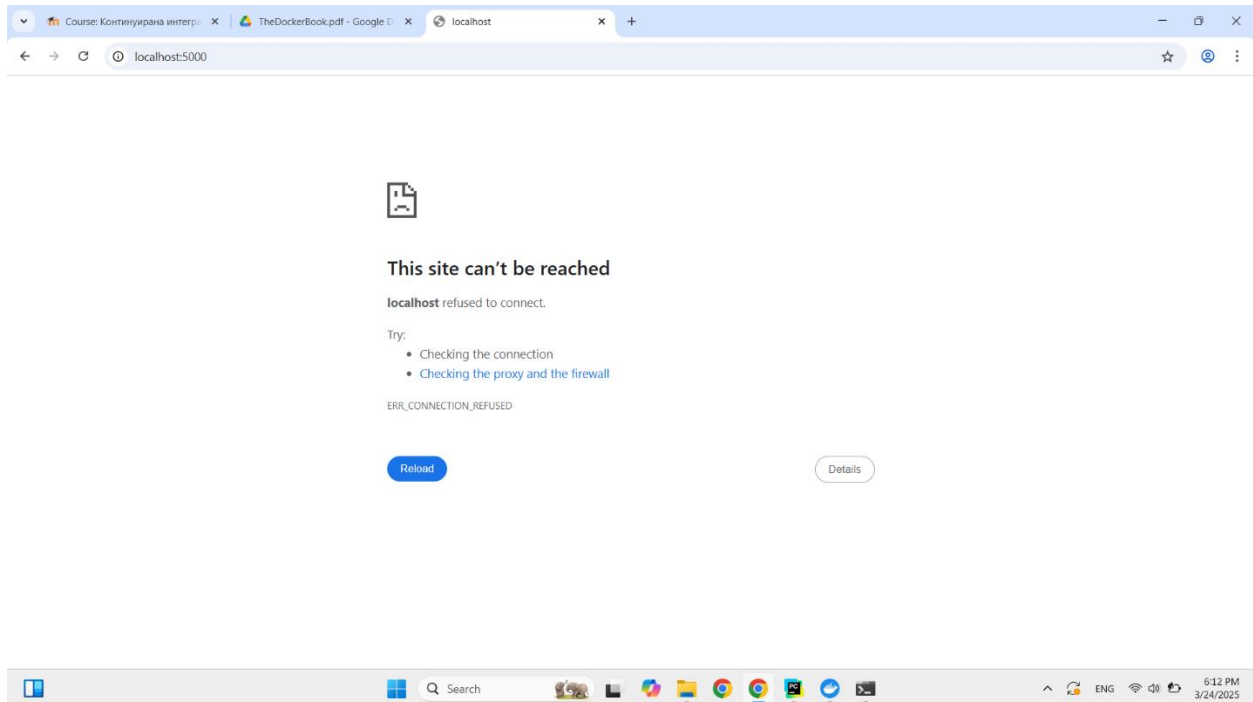
- Со `cd composeapp` влегуваме внатре во директориумот `composeapp`, а со командата `docker-compose up` го стартуваме `docker-compose` фајлот, што значи дека ќе се извршат сите сервисни контејнери дефинирани во `docker-compose.yml` фајлот.



- Командата docker-compose up -d ја стартува целата конфигурација дефинирана во docker-compose.yml фајлот во позадина.



- На следната слика е прикажано прелистувањето на локацијата на IP адресата на хостот на портата 5000, но нешто не се вчитува.



- Командата `docker-compose ps` се користи за прикажување на статусот на сите контејнери кои се управувани преку Docker Compose, а командата `docker ps` се користи за прикажување на статусот на сите активни Docker контејнери на нашиот систем.

```
C:\Users\user\composeapp>docker-compose up -d
time="2025-03-24T18:06:11+01:00" level=warning msg="C:\\Users\\user\\composeapp\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 2/2
  ✓ Container composeapp-redis-1 Started 0.9s
  ✓ Container composeapp-web-1 Started 1.4s

C:\Users\user\composeapp>docker-compose ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS        NAMES
ef96c4e3a762   redis         "docker-entrypoint.s..." 5 minutes ago  Up 4 minutes  6379/tcp     composeapp-redis-1

C:\Users\user\composeapp>docker-compose up -d
time="2025-03-24T18:12:32+01:00" level=warning msg="C:\\Users\\user\\composeapp\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 2/2
  ✓ Container composeapp-redis-1 Running 0.0s
  ✓ Container composeapp-web-1 Started 3.0s

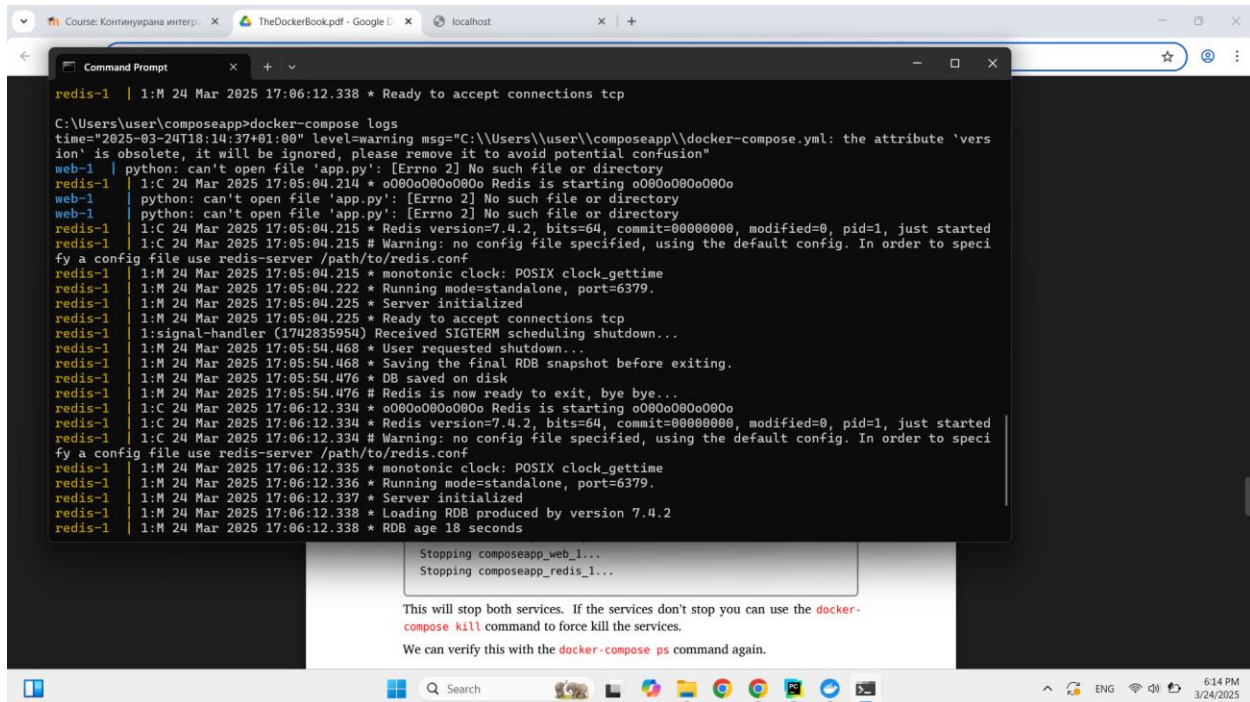
C:\Users\user\composeapp>docker-compose ps
time="2025-03-24T18:13:02+01:00" level=warning msg="C:\\Users\\user\\composeapp\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
NAME          IMAGE          COMMAND                  SERVICE   CREATED        STATUS        PORTS
composeapp-redis-1   redis         "docker-entrypoint.s..." redis     8 minutes ago  Up 6 minutes  6379/tcp

C:\Users\user\composeapp>docker-compose ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS        NAMES
ef96c4e3a762   redis         "docker-entrypoint.s..." 8 minutes ago  Up 7 minutes  6379/tcp     composeapp-redis-1

C:\Users\user\composeapp>
```

- Командата `docker-compose logs` се користи за прикажување на логови од сите контејнери кои се управувани преку Docker Compose.

```
C:\Users\user\composeapp>docker-compose logs
time="2025-03-24T18:14:15+01:00" level=warning msg="C:\\Users\\user\\composeapp\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
web-1 | python: can't open file 'app.py': [Errno 2] No such file or directory
web-1 | python: can't open file 'app.py': [Errno 2] No such file or directory
redis-1 | 1:C 24 Mar 2025 17:05:04.214 * o00o000o000o Redis is starting o00o000o000o
web-1 | python: can't open file 'app.py': [Errno 2] No such file or directory
redis-1 | 1:C 24 Mar 2025 17:05:04.215 * Redis version=7.4.2, bits=64, commit=00000000, modified=0, pid=1, just started
redis-1 | 1:C 24 Mar 2025 17:05:04.215 # Warning: no config file specified, using the default config. In order to speci
fy a config file use redis-server /path/to/redis.conf
redis-1 | 1:M 24 Mar 2025 17:05:04.215 * monotonic clock: POSIX clock_gettime
redis-1 | 1:M 24 Mar 2025 17:05:04.222 * Running mode=standalone, port=6379.
redis-1 | 1:M 24 Mar 2025 17:05:04.225 * Server initialized
redis-1 | 1:M 24 Mar 2025 17:05:04.225 * Ready to accept connections tcp
redis-1 | 1:signal-handler (1742835954) Received SIGTERM scheduling shutdown...
redis-1 | 1:M 24 Mar 2025 17:05:54.468 * User requested shutdown...
redis-1 | 1:M 24 Mar 2025 17:05:54.468 * Saving the final RDB snapshot before exiting.
redis-1 | 1:M 24 Mar 2025 17:05:54.476 * DB saved on disk
redis-1 | 1:M 24 Mar 2025 17:05:54.476 * Redis is now ready to exit, bye bye...
redis-1 | 1:C 24 Mar 2025 17:06:12.334 * o00o000o000o Redis is starting o00o000o000o
redis-1 | 1:C 24 Mar 2025 17:06:12.334 * Redis version=7.4.2, bits=64, commit=00000000, modified=0, pid=1, just started
redis-1 | 1:C 24 Mar 2025 17:06:12.334 # Warning: no config file specified, using the default config. In order to speci
fy a config file use redis-server /path/to/redis.conf
redis-1 | 1:M 24 Mar 2025 17:06:12.335 * monotonic clock: POSIX clock_gettime
redis-1 | 1:M 24 Mar 2025 17:06:12.336 * Running mode=standalone, port=6379.
redis-1 | 1:M 24 Mar 2025 17:06:12.337 * Server initialized
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Loading RDB produced by version 7.4.2
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * RDB age 18 seconds
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * RDB memory usage when created 0.90 Mb
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Done loading RDB, keys loaded: 0, keys expired: 0.
```



```
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Ready to accept connections tcp
C:\Users\user\composeapp>docker-compose logs
time="2025-03-24T18:14:37+01:00" level=warning msg="C:\\Users\\user\\composeapp\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
web-1 | python: can't open file 'app.py': [Errno 2] No such file or directory
redis-1 | 1:C 24 Mar 2025 17:05:04.214 * o000o000o000o Redis is starting o000o000o000o
web-1 | python: can't open file 'app.py': [Errno 2] No such file or directory
web-1 | python: can't open file 'app.py': [Errno 2] No such file or directory
redis-1 | 1:C 24 Mar 2025 17:05:04.215 * Redis version=7.4.2, bits=64, commit=00000000, modified=0, pid=1, just started
redis-1 | 1:C 24 Mar 2025 17:05:04.215 # Warning: no config file specified, using the default config. In order to specify a config file use redis-server /path/to/redis.conf
redis-1 | 1:M 24 Mar 2025 17:05:04.215 * monotonic clock: POSIX clock_gettime
redis-1 | 1:M 24 Mar 2025 17:05:04.222 * Running mode=standalone, port=6379.
redis-1 | 1:M 24 Mar 2025 17:05:04.225 * Server initialized
redis-1 | 1:M 24 Mar 2025 17:05:04.225 * Ready to accept connections tcp
redis-1 | 1:signal-handler (1742835954) Received SIGTERM scheduling shutdown...
redis-1 | 1:M 24 Mar 2025 17:05:54.468 * User requested shutdown...
redis-1 | 1:M 24 Mar 2025 17:05:54.468 * Saving the final RDB snapshot before exiting.
redis-1 | 1:M 24 Mar 2025 17:05:54.476 * DB saved on disk
redis-1 | 1:M 24 Mar 2025 17:05:54.476 # Redis is now ready to exit, bye bye...
redis-1 | 1:C 24 Mar 2025 17:06:12.334 * o000o000o000o Redis is starting o000o000o000o
redis-1 | 1:C 24 Mar 2025 17:06:12.334 * Redis version=7.4.2, bits=64, commit=00000000, modified=0, pid=1, just started
redis-1 | 1:C 24 Mar 2025 17:06:12.334 # Warning: no config file specified, using the default config. In order to specify a config file use redis-server /path/to/redis.conf
redis-1 | 1:M 24 Mar 2025 17:06:12.335 * monotonic clock: POSIX clock_gettime
redis-1 | 1:M 24 Mar 2025 17:06:12.336 * Running mode=standalone, port=6379.
redis-1 | 1:M 24 Mar 2025 17:06:12.337 * Server initialized
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Loading RDB produced by version 7.4.2
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * RDB age 18 seconds

Stopping composeapp_web_1...
Stopping composeapp_redis_1...

This will stop both services. If the services don't stop you can use the docker-compose kill command to force kill the services.

We can verify this with the docker-compose ps command again.
```

- Командата `docker-compose stop` се користи за стопирање на сите активни контејнери дефинирани во `docker-compose.yml` фајлот, без да ги бришеме.

```
redis-1 | 1:M 24 Mar 2025 17:05:04.225 * Ready to accept connections tcp
redis-1 | 1:signal-handler (1742835954) Received SIGTERM scheduling shutdown...
redis-1 | 1:M 24 Mar 2025 17:05:54.468 * User requested shutdown...
redis-1 | 1:M 24 Mar 2025 17:05:54.468 * Saving the final RDB snapshot before exiting.
redis-1 | 1:M 24 Mar 2025 17:05:54.476 * DB saved on disk
redis-1 | 1:M 24 Mar 2025 17:05:54.476 # Redis is now ready to exit, bye bye...
redis-1 | 1:C 24 Mar 2025 17:06:12.334 * o080o080o080o Redis is starting o080o080o080o
redis-1 | 1:C 24 Mar 2025 17:06:12.334 * Redis version=7.4.2, bits=64, commit=00000000, modified=0, pid=1, just started
redis-1 | 1:C 24 Mar 2025 17:06:12.334 # Warning: no config file specified, using the default config. In order to speci
fy a config file use redis-server /path/to/redis.conf
redis-1 | 1:M 24 Mar 2025 17:06:12.335 * monotonic clock: POSIX clock_gettime
redis-1 | 1:M 24 Mar 2025 17:06:12.336 * Running mode=standalone, port=6379.
redis-1 | 1:M 24 Mar 2025 17:06:12.337 * Server initialized
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Loading RDB produced by version 7.4.2
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * RDB age 18 seconds
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * RDB memory usage when created 0.90 Mb
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Done loading RDB, keys loaded: 0, keys expired: 0.
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * DB loaded from disk: 0.001 seconds
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Ready to accept connections tcp

C:\Users\user\composeapp>tail -f

C:\Users\user\composeapp>docker-compose stop
time="2025-03-24T18:15:29+01:00" level=warning msg="C:\\Users\\user\\composeapp\\docker-compose.yml: the attribute 'vers
ion' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[*] Stopping 2/2
✔Container composeapp-web-1 Stopped 0.0s
✔Container composeapp-redis-1 Stopped 0.6s

C:\Users\user\composeapp>
```

- Командата `docker-compose start` се користи за стартување на сите контејнери кои се дефинирани во `docker-compose.yml` фајлот, но кои претходно се стопирани (со `docker-compose stop`), а командата `docker-compose rm` се користи за бришење на стопирани контејнери кои се управувани преку Docker Compose.

```
redis-1 | 1:M 24 Mar 2025 17:06:12.337 * Server initialized
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Loading RDB produced by version 7.4.2
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * RDB age 18 seconds
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * RDB memory usage when created 0.90 Mb
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Done loading RDB, keys loaded: 0, keys expired: 0.
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * DB loaded from disk: 0.001 seconds
redis-1 | 1:M 24 Mar 2025 17:06:12.338 * Ready to accept connections tcp

C:\Users\user\composeapp>tail -f

C:\Users\user\composeapp>docker-compose stop
time="2025-03-24T18:15:29+01:00" level=warning msg="C:\\Users\\user\\composeapp\\docker-compose.yml: the attribute 'vers
ion' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[*] Stopping 2/2
✔Container composeapp-web-1 Stopped 0.0s
✔Container composeapp-redis-1 Stopped 0.6s

C:\Users\user\composeapp>docker-compose ps
time="2025-03-24T18:16:12+01:00" level=warning msg="C:\\Users\\user\\composeapp\\docker-compose.yml: the attribute 'vers
ion' is obsolete, it will be ignored, please remove it to avoid potential confusion"
NAME IMAGE COMMAND SERVICE CREATED STATUS PORTS
C:\Users\user\composeapp>docker-compose start
time="2025-03-24T18:16:53+01:00" level=warning msg="C:\\Users\\user\\composeapp\\docker-compose.yml: the attribute 'vers
ion' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[*] Running 2/2
✔Container composeapp-web-1 Started 1.3s
✔Container composeapp-redis-1 Started 1.3s

C:\Users\user\composeapp>
```