

Eren Ersoyluoğlu

```
keofla — docker run --name Yavuzlar --rm -p 8080:80 nginx — 132x44
Last login: Wed Jul 24 23:25:23 on console
keofla@keofla ~ % docker run --name Yavuzlar --rm -p 8080:80 nginx
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2024/07/24 20:45:23 [notice] 1#1: using the "epoll" event method
2024/07/24 20:45:23 [notice] 1#1: nginx/1.27.0
2024/07/24 20:45:23 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/07/24 20:45:23 [notice] 1#1: OS: Linux 6.6.31-linuxkit
2024/07/24 20:45:23 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/07/24 20:45:23 [notice] 1#1: start worker processes
2024/07/24 20:45:23 [notice] 1#1: start worker process 29
2024/07/24 20:45:23 [notice] 1#1: start worker process 30
2024/07/24 20:45:23 [notice] 1#1: start worker process 31
2024/07/24 20:45:23 [notice] 1#1: start worker process 32
2024/07/24 20:45:23 [notice] 1#1: start worker process 33
2024/07/24 20:45:23 [notice] 1#1: start worker process 34
2024/07/24 20:45:23 [notice] 1#1: start worker process 35
2024/07/24 20:45:23 [notice] 1#1: start worker process 36
2024/07/24 20:45:26 [notice] 1#1: signal 28 (SIGWINCH) received
2024/07/24 20:45:26 [notice] 1#1: signal 28 (SIGWINCH) received
2024/07/24 20:45:26 [notice] 1#1: signal 28 (SIGWINCH) received
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```

Yavuzlar adında nginx container'ı oluşturur ve port 8080,80 arasında tünel oluşturur işlem bittiğinde container'ı siler.

```
[keofla@keofla ~ % docker logs nginx
Error response from daemon: No such container: nginx
[keofla@keofla ~ % docker logs SiberVatan
Siber Vatan
keofla@keofla ~ %
```

Çalışan yada çalışmış container'ların loglarını döndürür.

```
[keofla@keofla ~ % docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
949980605e92        SiberVatan          bridge              local
6b6b6e258e0a        bridge              bridge              local
b1eef99e5ca7        host                host                local
25bd0c1a7a16        none                null                local
keofla@keofla ~ %
```

Docker üzerindeki networkleri listeler.

```
[keofla@keofla ~ % docker network create Keofla
0abc569a8ec743ab4bed17d007ba82a1281223f48d2fcd97afc79778940261b3
```

Docker da yeni network oluşturur.

```
keofla@keofla ~ % docker run -d alpine sleep 100
b9ac3355e7371a747e1b633d37259c9e4856122209564c57a262b933054b7ae8
keofla@keofla ~ % ls
Desktop          Library          PHPEgitimi      Public
Documents        Movies           Pictures        Virtual Machines.localized
Downloads        Music            Postman
keofla@keofla ~ % █
```

Container çalışsa bile terminalin kullanılmasını sağlar.

```
[keofla@keofla ~ % docker run -e MYSQL_ROOT_PASSWORD=test hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

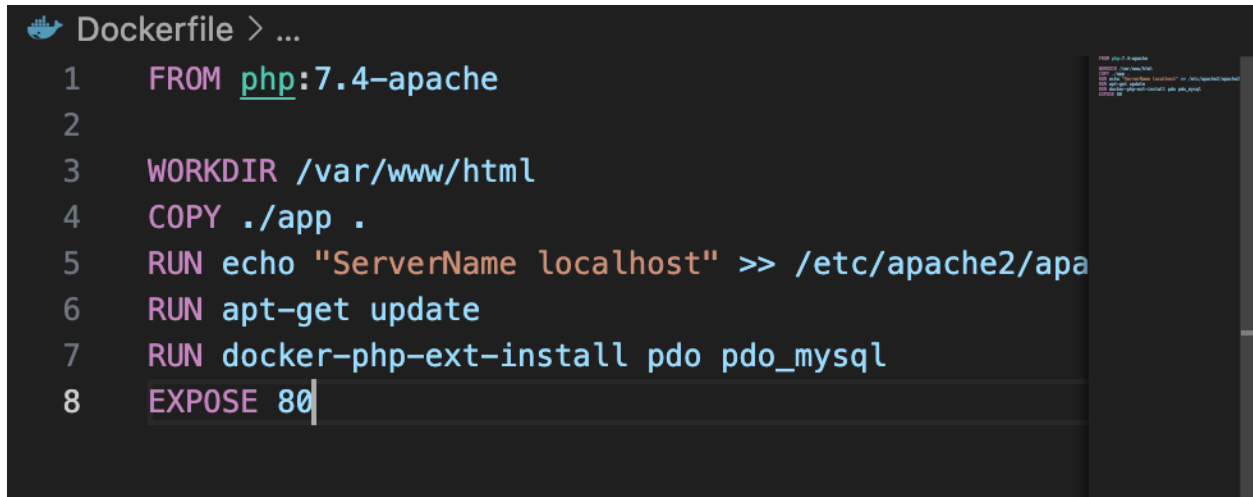
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

Image çalıştığında mysql ortamı için veri gönderir.

## Dockerfile



```
Dockerfile > ...
1 FROM php:7.4-apache
2
3 WORKDIR /var/www/html
4 COPY ./app .
5 RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf
6 RUN apt-get update
7 RUN docker-php-ext-install pdo pdo_mysql
8 EXPOSE 80
```

FROM php:7.4-apache = Php 7.4 sürümünü image' den çalıştırır.

WORKDIR /var/www/html = Çalışma dosyasını /var/www/html olarak değiştirir.

COPY ./app . = /app dosyasını şuanki çalışan dizine kopyalar.

RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf = Apache conf dosyasında ServerName' i localhost olarak değiştirir.

RUN apt-get update = işletim sistemi ortamını günceller.

RUN docker-php-ext-install pdo pdo\_mysql = docker üzerinde php ve mysql arasındaki bağlantıyı kurmak için gerekli paketleri yükler.

EXPOSE 80 = port 80' i dinler.

## Docker-compose.yml

```
🔥 docker-compose.yml X
🔥 docker-compose.yml
1  version: '3'
2
3  services:
4    app:
5      build:
6        context: .
7        dockerfile: Dockerfile
8      depends_on:
9        - db
10     ports:
11       - "80:80"
12     networks:
13       - net
14
15     db:
16       image: mysql:latest
17       environment:
18         - MYSQL_DATABASE=yavuzlar
19         - MYSQL_ROOT_PASSWORD=1
20       volumes:
21         - db_data:/var/lib/mysql
22         - ./yavuzlar_messages.sql:/docker-entrypoint-initdb.d/yavuzlar_messages.sql
23       ports:
24         - "8080:3306"
25       networks:
26         - net
27
28
29   networks:
30     net:
31       driver: bridge
32
33   volumes:
34     db_data:
35
```

docker-compose versiyon 3 syntax kullanılır.

Services:

Build context' ini docker-compose dosyasının olduğu dizine ayarlar.

Kullanılacak Dockerfile dosyası belirlenir.

App db, 80 portu ve net adlı network' e olan bağımlılığı ayarlanır.

Db:

Mysql' in son sürümü kullanılır

Mysql için gerekli olan ortam verileri tanımlanır.

Db\_data docker' a bağlanır.

Yavuzlar\_messages.sql docker a bağlanır.

Por 8080 ve 3306 arasında tünel oluşturur

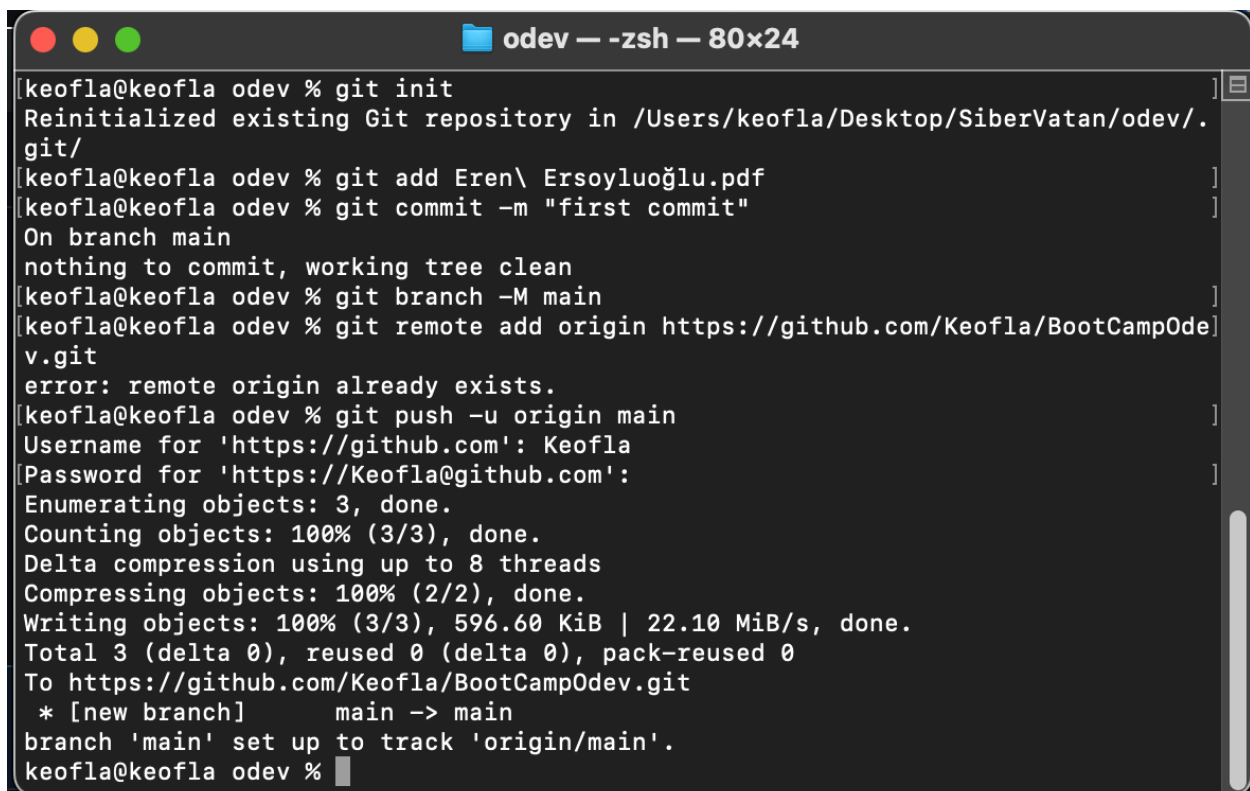
Network:

Net adında network oluşturur ve bridge driverını kullanır.

Volumes:

Db\_data adında volume oluşturur

Github:

A terminal window titled "odev — -zsh — 80x24" with a dark background and light text. The window shows a series of git commands and their outputs. The commands include: 'git init', 'git add Eren\ Ersoyluoğlu.pdf', 'git commit -m "first commit"', 'git branch -M main', 'git remote add origin https://github.com/Keofla/BootCampOdev.git', and 'git push -u origin main'. The output shows the repository being initialized, files being added and committed, a new branch being created, and the code being pushed to the remote repository. The push operation is successful, showing object counts, compression status, and the creation of a new branch on the remote.

```
odev — -zsh — 80x24
[keofla@keofla odev % git init
Reinitialized existing Git repository in /Users/keofla/Desktop/SiberVatan/odev/.
git/
[keofla@keofla odev % git add Eren\ Ersoyluoğlu.pdf
[keofla@keofla odev % git commit -m "first commit"
On branch main
nothing to commit, working tree clean
[keofla@keofla odev % git branch -M main
[keofla@keofla odev % git remote add origin https://github.com/Keofla/BootCampOdev.git
error: remote origin already exists.
[keofla@keofla odev % git push -u origin main
Username for 'https://github.com': Keofla
Password for 'https://Keofla@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 596.60 KiB | 22.10 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Keofla/BootCampOdev.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
keofla@keofla odev %
```