

```
iamblock@iamblock:~$ sudo docker search alpine
[sudo] password for iamblock:
NAME                DESCRIPTION                STARS     OFFICIAL   AUTOMATED
tesslime/alpinator   Alpine image with some usefully tools    0
alpinaris/hyperdriven-api Docker image for the Hyperdriven API    0
blizda/alpine-jvm-mpp Alpine image with jvm and mpj inside    0
linuxfacile/alpinano # for Raspberry PI 2 (linux/arm/v7) from : a... 0
madhead/lv-alpine     (Alpine + JFrog CLI) @ Docker            0      [OK]
juanpavillai999/alpine-backend            0
juanpavillai999/alpine-frontend            0
spinedaq/alpine_docker                    0
juanpavillai999/alpine_models              0
fantaofan/alpine                        0
viktotgreener/php7.4-alpine               0
robbederidder/new-alpine                  0
tianyahattengke/alpine                   0
achraftawes/alpine                       0
lvv321/nginx-alpine-my                   0
nicolasbraga11/alpine_git                 0
jgarca448/alpinako                       0
garmanetti/alpine_git                    0
natlidelanza/alpine_git                  0
martindesusouza/alpine_git               0
joaquin-dominguez30/alpine_git            0
santiagodiazllanes/alpine_git            0
nolventure/nginx-node                     0
anrs125/alpine                           0
tonaszgotee199/alpine                     0
iamblock@iamblock:~$
```

Resmi docker reposunda image arama komutu

```
iamblock@iamblock:~$ sudo docker pull alpine:latest
latest: Pulling from library/alpine
c6a83fedfae6: Pull complete
Digest: sha256:0a4eaa0eecf5f8c050e5bba433f58c052be7587ee8af3e8b3910ef9ab5fbc9f5
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest
iamblock@iamblock:~$
```

docker reposundan image çekme komutu

```
iamblock@iamblock:~$ sudo docker images
REPOSITORY    TAG        IMAGE ID      CREATED      SIZE
alpine        latest     324bc02ae123  2 days ago  7.8MB
iamblock@iamblock:~$
```

mevcut imagerleri görüntüleme

```
iamblock@iamblock:~$ sudo docker image ls
REPOSITORY    TAG        IMAGE ID      CREATED      SIZE
alpine        latest     324bc02ae123  2 days ago  7.8MB
iamblock@iamblock:~$
```

mevcut imagerleri görüntüleme alternatif

```
iamblock@iamblock:~$ sudo docker run -p 8080:80 alpine
iamblock@iamblock:~$
```

container başlatır containerdaki 80 portunu ana makinedeki 8080 portuna bağlar

```
iamblock@iamblock:~$ sudo docker image inspect alpine
[
  {
    "Id": "sha256:324bc02ae1231fd9255658c128086395d3fa0aedd5a41ab6b034fd649d1a9260",
    "RepoTags": [
      "alpine:latest"
    ],
    "RepoDigests": [
      "alpine@sha256:0a4eaa0ecef5f8c050e5bba433f58c052be7587ee8af3e8b3910ef9ab5f9e9f5"
    ],
    "Parent": "",
    "Comment": "",
    "Created": "2024-07-22T22:26:43.778747613Z",
    "Container": "fc33bc50844a0d6cdfc682fcf85647ec60783decdb3850e58ab7e013ef892cfb",
    "ContainerConfig": {
      "Hostname": "fc33bc50844a",
      "Domainname": "",
      "User": "",
      "AttachStdin": false,
      "AttachStdout": false,
      "AttachStderr": false,
      "Tty": false,
      "OpenStdin": false,
      "StdinOnce": false,
      "Env": [
        "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
      ],
      "Cmd": [
        "/bin/sh",
        "-c",
        "#(nop) ",
        "CMD [\"/bin/sh\"]"
      ],
      "Image": "sha256:3e25db883ea289c8b0d3006e7a6a03c56be09c50f63f6b228ba2fe74fd8194d2",
      "Volumes": null,
      "WorkingDir": "",
      "Entrypoint": null,
      "OnBuild": null,
      "Labels": {}
    }
  ]
}
```

docker imajeleri hakkında detaylı bilgi sağlar

```
iamblock@iamblock:~$ sudo docker run alpine echo "Alpine"
Alpine
iamblock@iamblock:~$
```

container başlatır ve içerisinde echo “alpine” komutunu çalıştırır

```
iamblock@iamblock:~$ docker version
Client:
 Version:      24.0.5
 API version:  1.43
 Go version:   go1.20.8
 Git commit:   ced0996
 Built:        Sat Oct 7 00:14:00 2023
 OS/Arch:      linux/amd64
 Context:      default
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/version": dial unix /var/run/docker.sock: connect: permission denied
iamblock@iamblock:~$
```

docker versiyonunu görüntüler

```
iamblock@iamblock:~$ sudo docker run -d alpine
8add6dddc2fcdcfce7269fbc36e1d0fa6bed87a574f6b4551b347c5a9e8550b
iamblock@iamblock:~$
```

containera arka planda çalıştırır

```
iamblock@iamblock:~$ sudo docker run -v data:[volume Name] [image]
docker: invalid reference format: repository name must be lowercase.
See 'docker run --help'.
```

containera data bağlar

```
iamblock@iamblock:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
```

dockerda çalışan containerları görüntüler

2.Kısım

```
docker-compose.yml
dockerize_me > docker-compose.yml
1  version: '3'
2
```

docker compose versiyonunu belirtir 3. versiyon

```

services:
  app:
    build:
      context: .
      dockerfile: Dockerfile
    depends_on:
      - db
    ports:
      - "80:80"
    networks:
      - net

```

services

servis konteynırıdır bunun içerisinde app konteynırı onun altında da build ile app container ı bu konumdaki dockerfile a yönlendirir

depends_on neye bağlı olduğunu söyler

ports açık portları belirtir

networks ile app servisi net networküne bağlanır

```

db:
  image: mysql:latest
  environment:
    - MYSQL_DATABASE=yavuzlar
    - MYSQL_ROOT_PASSWORD=1
  volumes:
    - db_data:/var/lib/mysql
    - ./yavuzlar_messages.sql:/docker-entrypoint-initdb.d/yavuzlar_messages.sql
  ports:
    - "8080:3306"
  networks:
    - net

networks:
  net:
    driver: bridge

volumes:
  db_data:

```

environment ortam değişkenlerini ayarlar

yavuzlar database i oluşturulur

root pass 1 e ayarlanır

db data adlı volume /var/lib/mysql e bağlanmış sonrasında yavuzlar_messages.sql

dosyası konteynıra bağlanmış

8080 portu 3306 a bağlanmış

networks db servisi bridge ile bağlanmış