

KISIM:1

Docker search: Docker search [isim] ile public container arasında arama yapar ve sonuç getirir.

```
C:\Users\onems>docker search alpine
NAME                DESCRIPTION                STARS    OFFICIAL
alpine              A minimal Docker image based on Alpine Linux... 10941    [OK]
alpinelinux/docker-cli Simple and lightweight Alpine Linux image wi... 11
alpinelinux/alpine-gitlab-ci Build Alpine Linux packages with Gitlab CI    3
alpinelinux/gitlab-runner-helper Helper image container gitlab-runner-helper ... 7
alpinelinux/rsyncd    2
alpinelinux/unbound  13
alpinelinux/alpine-drone-ci Build Alpine Linux packages with drone CI    0
alpinelinux/docker-alpine 0
alpinelinux/ansible   Ansible in docker          21
alpinelinux/gitlab-runner Alpine Linux gitlab-runner (supports more ar... 7
grafana/alpine        Alpine Linux with ca-certificates package in... 7
alpinelinux/docker-compose docker-compose image based on Alpine Linux    2
alpinelinux/apkbuild-lint-tools Tools for linting APKBUILD files in a CI env... 0
bellsoft/liberica-openjdk-alpine Liberica is a 100% open-source Java implemen... 58
alpinelinux/darkhttpd  2
alpinelinux/golang    Build container for golang based on Alpine L... 3
alpinelinux/alpine-docker-gitlab Gitlab running on Alpine Linux    0
alpinelinux/build-base Base image suitable for building packages wi... 0
alpinelinux/alpine-www The Alpine Linux public website (www.alpinel... 0
bellsoft/liberica-openjre-alpine Liberica is a 100% open-source Java implemen... 22
alpinelinux/docker-abuild Dockerised abuild            0
bellsoft/liberica-openjdk-alpine-musl Liberica is a 100% open-source Java implemen... 24
balenalib/amd64-alpine-node This image is part of the balena.io base ima... 2
alpinelinux/mqtt-exec  0
alpinelinux/netbox    dockerized netbox          0

C:\Users\onems>
```

Docker pull: Docker pull [isim] ([isim]:latest ile son versiyonu getirir) ile yazılan container'ı indirir.

```
C:\Users\onems>docker pull hello-world:latest
latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:1408fec50309afee38f3535383f5b09419e6dc0925bc69891e79d84cc4cdcec6
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest

What's next:
  View a summary of image vulnerabilities and recommendations → docker scout quickview hello-world:latest

C:\Users\onems>
```

Docker images: İndirilen container'ları listeler.

```
C:\Users\onems>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
hello-world    latest    d2c94e258dcb  14 months ago  13.3kB
```

Docker image inspect: Docker image inspect [isim] ile image'in detaylı bilgisini öğreniriz.

```
C:\Users\onems>docker image inspect hello-world
[
  {
    "Id": "sha256:d2c94e258dcb3c5ac2798d32e1249e42ef01cba4841c2234249495f87264ac5a",
    "RepoTags": [
      "hello-world:latest"
    ],
    "RepoDigests": [
      "hello-world@sha256:1408fec50309afee38f3535383f5b09419e6dc0925bc69891e79d84cc4cdcec6"
    ],
    "Parent": "",
    "Comment": "buildkit.dockerfile.v0",
    "Created": "2023-05-02T16:49:27Z",
    "DockerVersion": "",
    "Author": "",
    "Config": {
      "Hostname": "",
      "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": [
        "/hello"
      ]
    }
  ]
}
```

Docker run: Docker run [isim] ile docker'daki container'ı çalıştırırız.

```
C:\Users\onems>docker run 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/
```

KISIM 2:

Dockerfile

FROM php:7.4-apache → Docker'dan 7.4-apache tag'iyle base imaj olarak php'yi alır.

WORKDIR /var/www/html → Containerda belirtilen path'e geçiş yapılır.

COPY ./app . → Host üzerindeki app klasörünü image'e yükler.

RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf → belirtilen config dosyasına ServerName değerine localhost'u ekler

RUN apt-get update → apt-get update ile güncellemeleri alır

RUN docker-php-ext-install pdo pdo_mysql → pdo ve pdo_mysql php extensionunu indirir.

EXPOSE 80 → 80 portunda çalışır.

Docker compositon

version: '3' → Dockerfile'in kullanılacak olan 3.versiyonu

services: →Services Container'ı

app: →App Container'ı

build: →App container'ının bu konumdaki dockerfile'dan çalışmasını söyler

context: . → bunu anlamadım

dockerfile: Dockerfile →Dockerfile dosyası

depends_on: → Neye bağlanacağı

- db → Database

ports: → Açık olan portlar

- "80:80" →Port

networks: →app Servisini net networküne bağlar

- net →network

db: → DB servisi

image: mysql:latest →mysql'in son versiyonunun image'ini alır.

environment: →Çalışma komutları

- MYSQL_DATABASE=yavuzlar →Database adı

- MYSQL_ROOT_PASSWORD=1 → Database şifresi

volumes: →hacim/arabirim

- db_data:/var/lib/mysql →db_data'yı belirtilen konuma bağlar.

- ./yavuzlar_messages.sql:/docker-entrypoint-initdb.d/yavuzlar_messages.sql
→yavuzlar_messages'i belirtilen konuma bağlar.

ports:→portlar

- "8080:3306" →Açık portlar

networks: →Servisin bağlı olduğu network

- net →network

networks: →Networkler servisi

net:→network sürücüsü ayarı

driver: bridge →bridge mod sürücü ayarı

volumes: → hacim/arabirim

db_data: →Database verisi

KISIM 3:

```
C:\Users\onems>git clone https://github.com/Hayatialper/docker-odevi.git
Cloning into 'docker-odevi'...
warning: You appear to have cloned an empty repository.
```