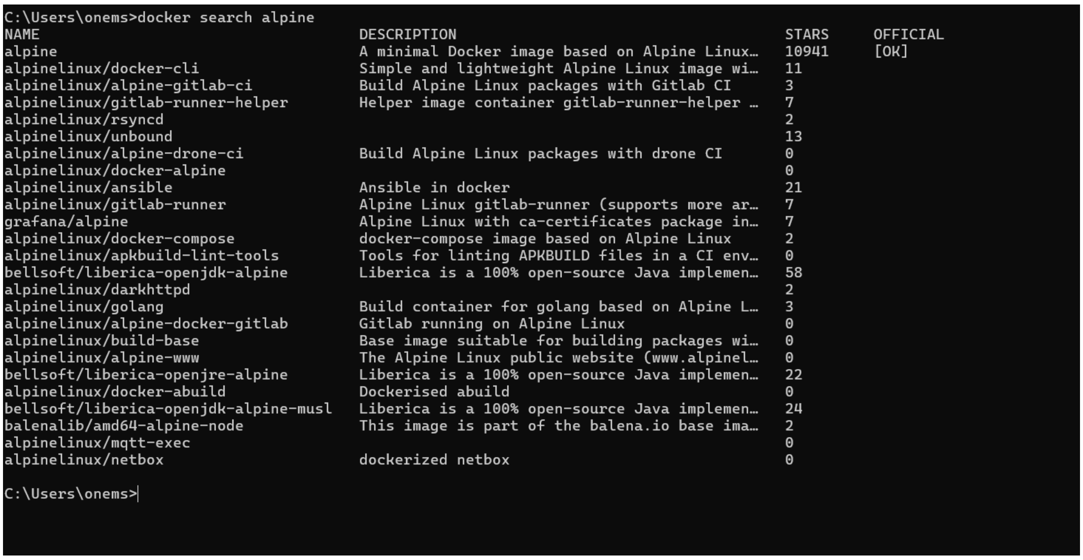
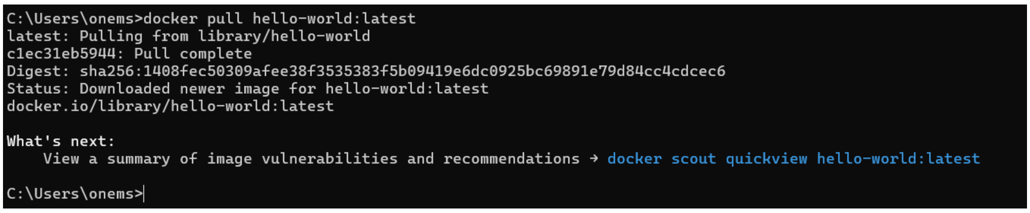
KISIM:1

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



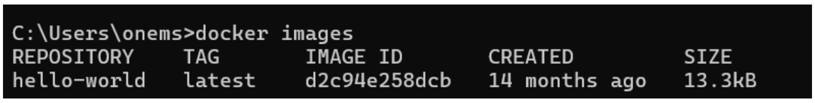
```
C:\Users\onems>docker search alpine
NAME                                    DESCRIPTION                                     STARS     OFFICIAL
alpine                                  A minimal Docker image based on Alpine Linux…   10941     [OK]
alpinelinux/docker-cli                  Simple and 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.



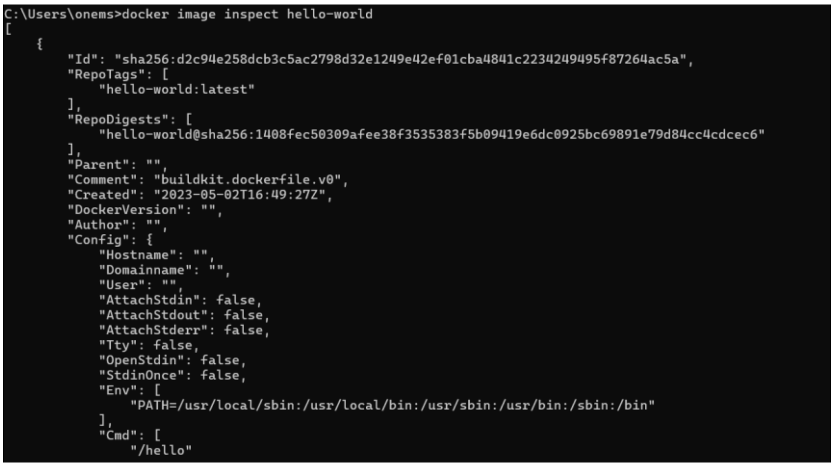
```
C:\Users\onems>docker pull hello-world:latest
latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:1408fec50309afee38f3535383f5b09419e6dc0925bc69891e79d84cc4cdcec6
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest

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.



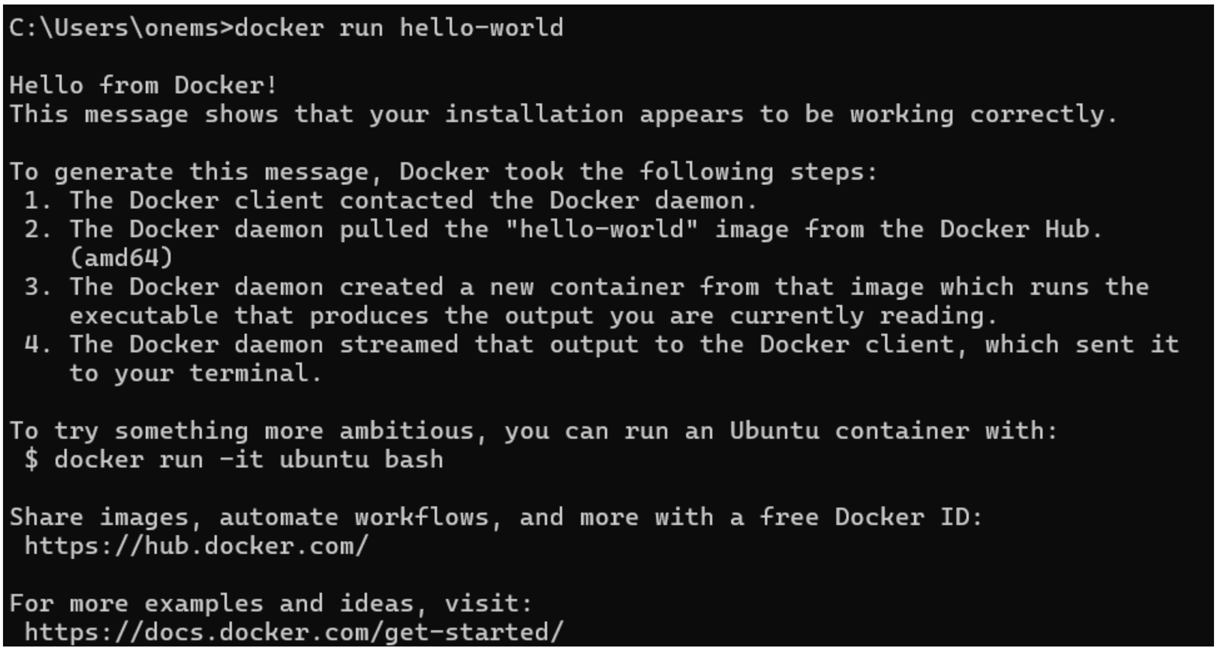
```
C:\Users\onems>docker images
REPOSITORY    TAG       IMAGE ID       CREATED         SIZE
hello-world   latest    d2c94e258dcb   14 months ago   13.3kB
```

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_msql php extensionunu indirir.

EXPOSE 80 →80 portunda çalışır.

Docker compositon

```
version: '3' → Dockerfile'ın 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
```

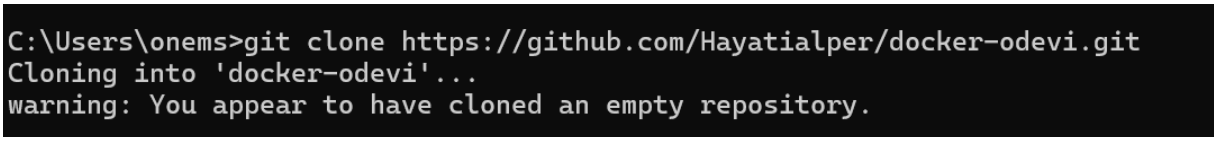
net:→network sürücüsü ayarı

driver: bridge →bridge mod sürücü ayarı

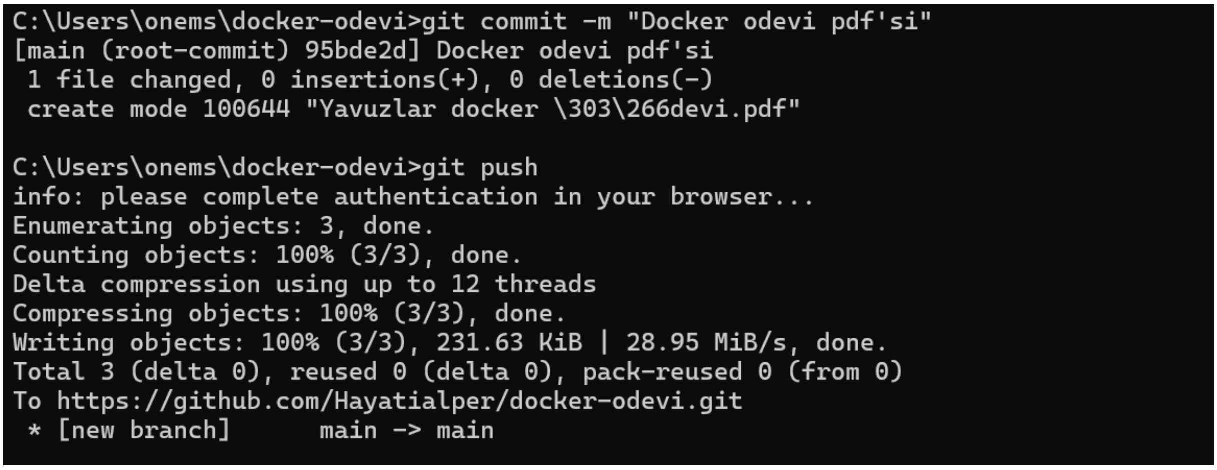
volumes: → hacim/arabirim

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.
```



```
C:\Users\onems\docker-odevi>git commit -m "Docker odevi pdf'si"
[main (root-commit) 95bde2d] Docker odevi pdf'si
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 "Yavuzlar docker \303\266devi.pdf"

C:\Users\onems\docker-odevi>git push
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 231.63 KiB | 28.95 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Hayatialper/docker-odevi.git
 * [new branch]      main -> main
```