



## **Yavuzlar Docker , Git ve GitHub komutları konsol ekran görüntüleri**

Hazırlayan : Sabri Küçük

## Global

`docker search image:tag:` [Docker Hub'tan](#) bir imaj arar.

```
C:\Windows\system32\cmd.exe

C:\Users\sabri>docker search ubuntu
NAME                DESCRIPTION                STARS    OFFICIAL
ubuntu              Ubuntu is a Debian-based Linux operating sys... 17178    [OK]
ubuntu-upstart      DEPRECATED, as is Upstart (find other proces... 115      [OK]
ubuntu-debootstrap  DEPRECATED; use "ubuntu" instead                52       [OK]
neurodebian         NeuroDebian provides neuroscience research s... 111      [OK]
open-liberty        Open Liberty multi-architecture images based... 65       [OK]
websphere-liberty   WebSphere Liberty multi-architecture images ... 299      [OK]
ubuntu/nginx        Nginx, a high-performance reverse proxy & we... 115
ubuntu/squid        Squid is a caching proxy for the Web. Long-t... 92
ubuntu/cortex       Cortex provides storage for Prometheus. Long... 4
ubuntu/prometheus   Prometheus is a systems and service monitori... 65
ubuntu/kafka        Apache Kafka, a distributed event streaming ... 50
ubuntu/apache2      Apache, a secure & extensible open-source HT... 74
ubuntu/zookeeper    ZooKeeper maintains configuration informatio... 13
ubuntu/bind9        BIND 9 is a very flexible, full-featured DNS... 94
ubuntu/mysql        MySQL open source fast, stable, multi-thread... 64
ubuntu/postgres     PostgreSQL is an open source object-relatio... 39
ubuntu/redis        Redis, an open source key-value store. Long-... 22
ubuntu/jre          Distrosless Java runtime based on Ubuntu. Lon... 15
ubuntu/dotnet-aspnet Chiselled Ubuntu runtime image for ASP.NET a... 22
ubuntu/grafana       Grafana, a feature rich metrics dashboard & ... 11
ubuntu/dotnet-deps   Chiselled Ubuntu for self-contained .NET & A... 16
ubuntu/memcached     Memcached, in-memory keyvalue store for smal... 5
ubuntu/cassandra     Cassandra, an open source NoSQL distributed ... 2
ubuntu/dotnet-runtime Chiselled Ubuntu runtime image for .NET apps... 20
ubuntu/prometheus-alertmanager Alertmanager handles client alerts from Prom... 9

C:\Users\sabri>
```

`docker pull image:tag:` [Docker Hub'tan](#) bir imaj indirir.

```
C:\Users\sabri>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\sabri>
```

## Network

`docker network create name:` Kendi ağını oluşturur.

```
C:\Windows\system32\cmd.exe

C:\Users\sabri>docker network create yavuzlar
d6b4e6b2eac0a0f3644542d6d66602206223f8ac5fa3c5d05bddb1674cb86f30

C:\Users\sabri>
```

`docker network ls:` Oluşturulan tüm ağı listeler.

```
C:\Users\sabri>docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
eff97d70fe2b        bridge             bridge              local
9f1e51b37e51        host               host                local
8590d03b6471        none               null                local
d6b4e6b2eac0        yavuzlar           bridge              local

C:\Users\sabri>
```

`docker network rm network_id:` Belirtilen ağı siler.

```
C:\Users\sabri>docker network rm yavuzlar
yavuzlar

C:\Users\sabri>
```

## Image

`docker images / docker image ls`: Bilgisayarınıza yüklenmiş tüm imajları listeler.

```
C:\Users\sabri>docker images
REPOSITORY      TAG         IMAGE ID      CREATED        SIZE
7.4-apache      latest     ba416de3cfa4  28 minutes ago 471MB
hello-world     latest     d2c94e258dcb  14 months ago 13.3kB

C:\Users\sabri>
```

`docker image rm image_id`: Belirtilen imajı siler.

```
C:\Users\sabri>docker image rm d2c94e25
Untagged: hello-world:latest
Untagged: hello-world@sha256:1408fec50309afee38f3535383f5b09419e6dc0925bc69891e79d84cc4cdcec6
Deleted: sha256:d2c94e258dcb3c5ac2798d32e1249e42ef01cba4841c2234249495f87264ac5a
Deleted: sha256:ac28800ec8bb38d5c35b49d45a6ac4777544941199075dffb8c4eb63e093aa81e

C:\Users\sabri>
```

`docker image inspect <image>`: İmaj hakkında detaylı bilgi sağlar.

```
C:\Users\sabri>docker image inspect ba416
[
  {
    "Id": "sha256:ba416de3cfa425b8c0f49494b07489adcd30b42d0894cf99269e16b40329f152",
    "RepoTags": [
      "7.4-apache:latest"
    ],
    "RepoDigests": [],
    "Parent": "",
    "Comment": "buildkit.dockerfile.v0",
    "Created": "2024-07-24T20:43:47.15581229Z",
    "DockerVersion": "",
    "Author": "",
    "Config": {
      "Hostname": "",
      "Domainname": "",
      "User": "",
      "AttachStdin": false,
      "AttachStdout": false,
      "AttachStderr": false,
      "ExposedPorts": {
        "80/tcp": {}
      },
      "Tty": false,
      "OpenStdin": false,
      "StdinOnce": false,
      "Env": [
        "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
        "PHPIZE_DEPS=autoconf \t\tdpkg-dev \t\tfile \t\tg++ \t\tgcc \t\tlibc-dev \t\tmake \t\tpkg-config \t\tre2c",
        "PHP_INI_DIR=/usr/local/etc/php",
        "APACHE_CONFDIR=/etc/apache2",
        "APACHE_ENVVARS=/etc/apache2/envvars",
        "PHP_CFLAGS=-fstack-protector-strong -fpic -fpie -O2 -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64",
        "PHP_CPPFLAGS=-fstack-protector-strong -fpic -fpie -O2 -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64",
        "PHP_LDFLAGS=-Wl,-O1 -pie",
      ]
    }
  }
]
```

**docker image build dockerFilePath / docker build dockerFilePath:**  
Docker Dosyası kullanarak özel bir imaj oluşturmanızı sağlar.

```
PS C:\Users\sabri\OneDrive\Masüstü\deneme> docker build -t 7.4-apache C:\Users\sabri\OneDrive\Masüstü\deneme
[+] Building 49.8s (11/11) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 232B
=> [internal] load metadata for docker.io/library/php:7.4-apache
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/6] FROM docker.io/library/php:7.4-apache@sha256:c9d7e688f73832673479770d66aacc8100011ec751d1905ff63fae3fe2e8ca6d
=> => resolve docker.io/library/php:7.4-apache@sha256:c9d7e688f73832673479770d66aacc8100011ec751d1905ff63fae3fe2e8ca6d
=> sha256:2ba3733f422b7b38dcf99e897f893a8c135efca631ff6d082d02d0916369413 12.51kB / 12.51kB
=> sha256:fb54c8af82f80738b7427e47bda7f76cea2e2b9aaa421750bc9025aface98d8 270B / 270B
=> sha256:c9d7e688f73832673479770d66aacc8100011ec751d1905ff63fae3fe2e8ca6d 1.86kB / 1.86kB
=> sha256:18b3497ee7f2099a90b66c23a0bc3d5261b12bab367263e1b40e9b004c39e882 3.04kB / 3.04kB
=> sha256:156740b07ef8a632f9f7bea4e57e4ee5541ade376ad7f169351a1265382e30de 91.63MB / 91.63MB
=> sha256:25f85b408f5bfc6cce951513219fe480850daba71ee997741e984d18483971 19.25MB / 19.25MB
=> sha256:9b233e428ac7bbca645bb82c213029762acf1742400c076360dc303213c309d5 475B / 475B
=> sha256:fe42347c4ecf90333acd9cad13912387eea39d13827a25cfa78727fa5d200e9 514B / 514B
=> sha256:d14eb2ed1e17ae08f5fcb4b0b562e2867c401c20372829e2cf443fc409342fa 10.70MB / 10.70MB
=> sha256:66d98f73acb2e86c0c226f9eedc7eda305df0c1e171ca5caf81cb8b1c40cb 491B / 491B
=> sha256:d2c43c5efbc861f83ee565c7102ca660d6f35e158324fbb042de5017e43afe8 10.20MB / 10.20MB
=> sha256:ab590b48ea476386dd7b07c34de9eff7cf2103c4668ade985fe31e59f15deee8 2.46kB / 2.46kB
=> sha256:80692ae2d067c8358112c56490a2a97f09ef395fd8f7662a31408644c9a813ef 246B / 246B
=> sha256:05e465aaa99a358add4acecdade8f39843089069f31fea0201533d3a09a90c9a 892B / 892B
=> => extracting sha256:156740b07ef8a632f9f7bea4e57e4ee5541ade376ad7f169351a1265382e30de
=> => extracting sha256:fb54c8af82f80738b7427e47bda7f76cea2e2b9aaa421750bc9025aface98d8
=> => extracting sha256:25f85b408f5bfc6cce951513219fe480850daba71ee997741e984d18483971
=> => extracting sha256:9b233e428ac7bbca645bb82c213029762acf1742400c076360dc303213c309d5
=> => extracting sha256:fe42347c4ecf90333acd9cad13912387eea39d13827a25cfa78727fa5d200e9
=> => extracting sha256:d14eb2ed1e17ae08f5fcb4b0b562e2867c401c20372829e2cf443fc409342fa
=> => extracting sha256:66d98f73acb2e86c0c226f9eedc7eda305df0c1e171ca5caf81cb8b1c40cb
=> => extracting sha256:d2c43c5efbc861f83ee565c7102ca660d6f35e158324fbb042de5017e43afe8
=> => extracting sha256:ab590b48ea476386dd7b07c34de9eff7cf2103c4668ade985fe31e59f15deee8
=> => extracting sha256:80692ae2d067c8358112c56490a2a97f09ef395fd8f7662a31408644c9a813ef
=> => extracting sha256:05e465aaa99a358add4acecdade8f39843089069f31fea0201533d3a09a90c9a
=> [internal] load build context
=> => transferring context: 123B
=> [2/6] WORKDIR /var/www/html
=> [3/6] COPY ./app .
=> [4/6] RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf
=> [5/6] RUN apt-get update
=> [6/6] RUN docker-php-ext-install pdo pdo_mysql
=> exporting to image
=> => exporting layers
=> => writing image sha256:ba416de3cfa425b8c0f49494b07489adc30b42d0894cf99269e16b40329f152
=> => naming to docker.io/library/7.4-apache
```

**docker run [OPTIONS] image [COMMANDS]:** Bir imajı kullanarak bir konteyner oluşturur. [COMMANDS] tamamlandıktan sonra kapanır.

**OPTIONS:**

--name: Konteynera özel bir isim atar.

--rm: Konteyner işini bitirdikten sonra otomatik olarak kendini siler.

-p: Konteynerin belirli bir portunu ana makineye yönlendirmek için kullanılır

```
C:\Users\sabri>docker run --rm --name Tobito -p 8080:8080 7.4-apache
[Wed Jul 24 21:18:02.245315 2024] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.54 (Debian) PHP/7.4.33 configured -- resuming normal operations
[Wed Jul 24 21:18:02.245344 2024] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'
```

## Git ile yükleme

```
MINGW64:/c/Users/sabri/OneDrive/Masaüstü/sabriningitdenemereposu

sabri@DESKTOP-BC217A0 MINGW64 ~/OneDrive/Masaüstü/sabriningitdenemereposu (main)
$ git add *
warning: in the working copy of 'deneme.pub.pub', LF will be replaced by CRLF the next time Git touches it

sabri@DESKTOP-BC217A0 MINGW64 ~/OneDrive/Masaüstü/sabriningitdenemereposu (main)
$ git commit -m "Sabri"
[main fdc40a8] Sabri
 7 files changed, 146 insertions(+)
 create mode 100644 Dockerfile
 create mode 100644 app/app.js
 create mode 100644 app/backend.php
 create mode 100644 app/index.php
 create mode 100644 deneme.pub.pub
 create mode 100644 docker-compose.yml
 create mode 100644 yavuzlar_messages.sql

sabri@DESKTOP-BC217A0 MINGW64 ~/OneDrive/Masaüstü/sabriningitdenemereposu (main)
$ git push -u origin main
Enter passphrase for key '/c/Users/sabri/.ssh/id_rsa':
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 16 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (10/10), 3.10 KiB | 3.10 MiB/s, done.
Total 10 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:TobitoSabrito/denemesiber.git
   1a5383e..fdc40a8  main -> main
branch 'main' set up to track 'origin/main'.

sabri@DESKTOP-BC217A0 MINGW64 ~/OneDrive/Masaüstü/sabriningitdenemereposu (main)
$ |
```

## Git ile Pdf Yükleme

```
sabri@DESKTOP-BC217A0 MINGW64 ~/OneDrive/Masaüstü/sabriningitdenemereposu (main)
$ git add *

sabri@DESKTOP-BC217A0 MINGW64 ~/OneDrive/Masaüstü/sabriningitdenemereposu (main)
$ git commit -m "Sabri"
[main 4bc1ffb] Sabri
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Sabri_Kucuk Siber Vatan Odev 3.pdf

sabri@DESKTOP-BC217A0 MINGW64 ~/OneDrive/Masaüstü/sabriningitdenemereposu (main)
$ git push -u origin main
Enter passphrase for key '/c/Users/sabri/.ssh/id_rsa':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 418.24 KiB | 2.57 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:TobitoSabrito/denemesiber.git
   fdc40a8..4bc1ffb  main -> main
branch 'main' set up to track 'origin/main'.

sabri@DESKTOP-BC217A0 MINGW64 ~/OneDrive/Masaüstü/sabriningitdenemereposu (main)
$
```

## Docker Compose Dosyası Açıklama

```
version: '3'

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

  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:
```

**version:** Docker Compose versionunu belirtir.

**services:** Docker Compose dosyasında tanımlanan servislerin başladığı bölümü başlatır.

**build:** Dockerfile'ın yerini belirtir.

**context:** İçeriğin hangi dizinde olduğunu belirtir.

**Dockerfile:** dockerfile dosyasının adını belirtir.

**depends\_on:** bir servisin başlaması için gereken diğer servisleri belirtir.



**volumes:** host makinadaki dizinlerin veya dosyaların konteynere bağlanmasını sağlar.

**ports:** bir konteynerin hangi portlarının host makinadaki portlara bağlanacağını belirtir.

**networks:** bir servisin hangi Docker ağlarında çalışacağını belirtir. Birden fazla ağa bağlanabilir ve ağlar arası iletişim sağlayabilir.

**. /yavuzlar\_messages.sql:/docker-entrypoint-initdb.d/yavuzlar\_messages.sql :** bu dizinde bulunan yavuzlar\_messages.sql dosyasının docker içindeki database initilaze içine alır.

## Dockerfile Dosyası Açıklama

```
FROM php:7.4-apache

WORKDIR /var/www/html
COPY ./app .
RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf
RUN apt-get update
RUN docker-php-ext-install pdo pdo_mysql
EXPOSE 80
```

FROM php:7.4-apache => Konteyner'in hangi image'ı temel alacağını belirtir.

WORKDIR /var/www/html => Çalışma dizinini belirtir.

COPY ./app . => Ana makinadan konteyner içine dosya kopyalamamızı sağlar.

RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf => apache2.conf dosyasının içine ServerName localhost yazısını ekler

RUN apt-get update => apt-get update i çalıştırır.

RUN docker-php-ext-install pdo pdo\_mysql => pdo ya erişmemizi sağlayan kod bloğu

EXPOSE 80 => 80 numaralı portu kullanacağını gösterir