

# DOCKER KOMUTLARI

1-) docker : Docker içerisinde hangi komutları kullanabileceğimizi görürüz.

```
Komut İstemi
Microsoft Windows [Version 10.0.22631.3880]
(c) Microsoft Corporation. Tüm hakları saklıdır.

C:\Users\Nisa>docker

Usage:  docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Common Commands:
  run          Create and run a new container from an image
  exec        Execute a command in a running container
  ps          List containers
  build       Build an image from a Dockerfile
  pull       Download an image from a registry
  push       Upload an image to a registry
  images     List images
  login      Log in to a registry
  logout     Log out from a registry
  search     Search Docker Hub for images
  version    Show the Docker version information
  info       Display system-wide information

Management Commands:
  builder     Manage builds
  buildx*    Docker Buildx
  compose*   Docker Compose
  container  Manage containers
  context    Manage contexts
  debug*     Get a shell into any image or container.
  dev*      Docker Dev Environments
  extension* Manages Docker extensions
  feedback*  Provide feedback, right in your terminal!
  image     Manage images
  init*     Creates Docker-related starter files for your project
  manifest  Manage Docker image manifests and manifest lists
  network   Manage networks
  plugin    Manage plugins
  sbom*     View the packaged-based Software Bill Of Materials (SBOM) for
an image
  scout*    Docker Scout
```

## 2-) --version : Docker versiyonunu görüntüleriz.

```
C:\Users\Nisa>docker --version
Docker version 26.0.0, build 2ae903e

C:\Users\Nisa>
```

## 3-) pull : Docker registry den image çekmemizi sağlar.

```
C:\Users\Nisa>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:1408fec50309afee38f3535383f5b09419e6dc0925bc69891e79d84cc4cdc
ec6
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

C:\Users\Nisa>
```

## 4-) search : Docker registry de image aramak için kullanırız.

```
C:\Users\Nisa>docker search nginx
```

NAME	STARS	OFFICIAL	DESCRIPTION
nginx	20036	[OK]	Official build of Nginx.
unit			Official build of NGINX Unit: Universal W
eb ...	33	[OK]	
nginx/nginx-ingress			NGINX and NGINX Plus Ingress Controllers
fo...	92		
nginxinc/nginx-unprivileged			Unprivileged NGINX Dockerfiles
	155		
nginx/nginx-prometheus-exporter			NGINX Prometheus Exporter for NGINX and N
GIN...	42		
nginx/unit			This repository is retired, use the Docke
r o...	63		
nginxinc/nginx-s3-gateway			Authenticating and caching gateway based
on ...	6		
nginx/nginx-ingress-operator			NGINX Ingress Operator for NGINX and NGIN
X P...	2		
nginx/nginx-quic-qns			NGINX QUIC interop
	1		
nginxinc/amplify-agent			NGINX Amplify Agent docker repository
	1		
nginxinc/ingress-demo			Ingress Demo
	4		
nginxproxy/nginx-proxy			Automated nginx proxy for Docker containe
rs ...	143		
nginx/unit-preview			Unit preview features

5-) images : Docker içerisinde var olan image larımızı görürüz.

```
C:\Users\Nisa>docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
yavuzlar/vulnlab    latest             25e72b0d1577       2 months ago       913MB
diwa                 latest             cd7ae500c4fb       2 months ago       456MB
wpscanteam/wpscan   latest             480bd7687f25       2 months ago       146MB
yavuzlar/vulnlab    <none>             d7aa3a54b928       2 months ago       919MB
hello-world         latest             d2c94e258dcb       14 months ago      13.3kB

C:\Users\Nisa>
```

6-) run image\_id : Docker içerisinde ilgili id ye sahip image imizi çalıştırırız.

```
C:\Users\Nisa>docker run d2c94e258dcb

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/

C:\Users\Nisa>
```

7-) ps : Docker içerisinde çalışan container ları listeler.

-a : Var olan tüm container ları listeler.

```
C:\Users\Nisa>docker ps -a
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS              PORTS          NAMES
ac43dc0d6014   d2c94e258dcb        "/hello"                2 minutes ago   Exited (0) 2 minutes ago           bold_mayer
cdb69a86fe36   diwa:latest         "docker-php-entrypoi..." 2 months ago   Exited (0) 2 months ago           relaxed_dhawan
ec3a6d1414d7   yavuzlar/vulnlab    "/usr/sbin/run.sh"      2 months ago   Exited (137) 5 weeks ago          admiring_mcnulty

C:\Users\Nisa>
```

8-) run container\_id/container\_name : Docker da ilgili container çalıştırmamızı sağlar.

```
C:\Users\Nisa>docker container run hello-world

Hello from Docker!
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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.
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C:\Users\Nisa>
```

9-) -d : Arka planda çalışmayı sağlar.

-p : Bağlantı noktasını ayarlamamızı sağlar.

```
C:\Users\Nisa>docker run -d -p 80:80 d2c94e258dcb
01be707414616b6d8994684a07cd77f440be010c297b7733f435a063cc85b19a

C:\Users\Nisa>
```

10-) stop container\_id : Çalışan container ı durdurmaya yarar.

11-) start container\_id: Dürmüş olan container ı başlatır.

```
C:\Users\Nisa>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
ec3a6d1414d7   yavuzlar/vulnlab  "/usr/sbin/run.sh"      2 months ago  Up 8 seconds  0.0.0.0:1337->80/tcp      admiring_
mcnulty

C:\Users\Nisa>docker stop ec3a6d1414d7
ec3a6d1414d7

C:\Users\Nisa>docker start ec3a6d1414d7
ec3a6d1414d7

C:\Users\Nisa>
```

## 12-) -it : Terminal başlatmaya yarar.

```
C:\Users\Nisa>docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
alpine               latest             324bc02ae123       46 hours ago       7.8MB
yavuzlar/vulnlab    latest             25e72b0d1577       2 months ago       913MB
diwa                 latest             cd7ae500c4fb       2 months ago       456MB
wpscanteam/wpscan   latest             480bd7687f25       2 months ago       146MB
yavuzlar/vulnlab    <none>             d7aa3a54b928       2 months ago       919MB
hello-world          latest             d2c94e258dc6       14 months ago      13.3kB

C:\Users\Nisa>docker run -it 324bc02ae123
/ #
```

## 13-) exec : Komut çalıştırmaya yarar,execute eder.

```
C:\Users\Nisa>docker exec -it ec3a6d1414d75fdca00400e51c1f13ef3be8e9f3aea7f36f0c7edfaafb0d2af9 ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys tmp usr var

What's next?
Try Docker Debug for seamless, persistent debugging tools in any container or image → docker debug ec3a6d1414d75fdca00400e51c1f13ef3be8e9f3aea7f36f0c7edfaafb0d2af9
Learn more at https://docs.docker.com/go/debug-cli/
```

## 14-) --name : Container e isim atamamızı sağlar.

```
C:\Users\Nisa>docker run --name deneme 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:
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   (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.

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

C:\Users\Nisa>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS                    PORTS          NAMES
220418593c63   hello-world "/hello"               10 seconds ago Exited (0) 10 seconds ago          deneme
0f6afa2138a0   hello-world "/hello"               15 minutes ago Exited (0) 15 minutes ago          dreamy_hodgkin
cdb69a86fe36   diwa:latest "docker-php-entrypoi..." 2 months ago   Exited (0) 2 months ago          relaxed_dhawan
ec3a6d1414d7   yavuzlar/vulnlab "/usr/sbin/run.sh"      2 months ago   Exited (137) 2 minutes ago        admiring_mcnulty
```

## 15-) rm container\_id : Container silmemizi sağlar.

```
C:\Users\Nisa>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS                    PORTS          NAMES
220418593c63   hello-world "/hello"               About a minute ago Exited (0) About a minute ago          deneme
0f6afa2138a0   hello-world "/hello"               16 minutes ago   Exited (0) 16 minutes ago          dreamy_hodgkin
cdb69a86fe36   diwa:latest "docker-php-entrypoi..." 2 months ago   Exited (0) 2 months ago          relaxed_dhawan
ec3a6d1414d7   yavuzlar/vulnlab "/usr/sbin/run.sh"      2 months ago   Exited (137) 3 minutes ago        admiring_mcnulty

C:\Users\Nisa>docker rm 0f6afa2138a0
0f6afa2138a0

C:\Users\Nisa>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS                    PORTS          NAMES
220418593c63   hello-world "/hello"               2 minutes ago   Exited (0) 2 minutes ago          deneme
cdb69a86fe36   diwa:latest "docker-php-entrypoi..." 2 months ago   Exited (0) 2 months ago          relaxed_dhawan
ec3a6d1414d7   yavuzlar/vulnlab "/usr/sbin/run.sh"      2 months ago   Exited (137) 4 minutes ago        admiring_mcnulty
```

16-) network: Docker ın network ile ilgili kullanılabilir komutlarını verir.

```
C:\Users\Nisa>docker network

Usage:  docker network COMMAND

Manage networks

Commands:
  connect      Connect a container to a network
  create       Create a network
  disconnect   Disconnect a container from a network
  inspect      Display detailed information on one or more networks
  ls           List networks
  prune        Remove all unused networks
  rm           Remove one or more networks

Run 'docker network COMMAND --help' for more information on a command.
```

17-)network ls: Docker a ait ağların detaylarını listeler.

```
C:\Users\Nisa>docker network ls

NETWORK ID          NAME                DRIVER              SCOPE
2fccde24f756        bridge              bridge              local
3ff5f1edfab4        host                host                local
91f67ca68e86        none                null                local
```

18-) logs container\_ad : İlgili container ın log kayıtlarını gösterir.

```
C:\Users\Nisa>docker logs relaxed_dhawan
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.3. Set the 'ServerName' directive g
lobally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.3. Set the 'ServerName' directive g
lobally to suppress this message
[Sat May 25 11:21:27.247548 2024] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.54 (Debian) PHP/7.4.33 configured -- resuming normal ope
rations
[Sat May 25 11:21:27.247622 2024] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'
172.17.0.1 - - [25/May/2024:11:21:54 +0000] "GET / HTTP/1.1" 200 1965 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KH
TML, like Gecko) Chrome/125.0.6422.60 Safari/537.36"
```

19-) volume create volume\_ad : volüme oluşturmamızı sağlar.

20-) volume ls: Volume listesi verir.

```
C:\Users\Nisa>docker volume create my_volume
my_volume

C:\Users\Nisa>docker volume ls
DRIVER      VOLUME NAME
local       my_volume
```

## 21-) events: Docker da gerçek zamanlı olarak olayları görüntülememizi sağlar.

```
C:\Users\Nisa>docker events
2024-07-25T00:11:26.654228515+03:00 network connect 2fccde24f756e003e25c0d4df685266f3ca1d7c665736e325cc9a637b7184d83 (container=220418593c6395feb4ae678702a69e7eb3d78bb6ffe6fe60cfc92879b10ab16d, name=bridge, type=bridge)
2024-07-25T00:11:26.947509365+03:00 container start 220418593c6395feb4ae678702a69e7eb3d78bb6ffe6fe60cfc92879b10ab16d (image=hello-world, name=deneme)
2024-07-25T00:11:27.228079611+03:00 network disconnect 2fccde24f756e003e25c0d4df685266f3ca1d7c665736e325cc9a637b7184d83 (container=220418593c6395feb4ae678702a69e7eb3d78bb6ffe6fe60cfc92879b10ab16d, name=bridge, type=bridge)
2024-07-25T00:11:27.263244109+03:00 container die 220418593c6395feb4ae678702a69e7eb3d78bb6ffe6fe60cfc92879b10ab16d (execDuration=0, exitCode=0, image=hello-world, name=deneme)
```