

## Docker Komutları

docker search <imaj ismi> : docker imajları arasında arama yapmamızı sağlıyor

```
Windows PowerShell
alt          The official build of ALT Linux.          63          [OK]
api-firewall A light-weighted API Firewall to protect you... 51          [OK]
PS C:\Users\xnes> 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/unbound 13
alpinelinux/rsyncd 2
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
PS C:\Users\xnes>
```

Örneğin burada alpine isimli imajı arattım, ki derste de bunu aratmıştık

docker pull <imaj-ismi> : burada seçtiğimiz imajı docker hub'dan sistemimize çekiyoruz

ben hello world imajını seçiyorum örneğin:

```
Windows PowerShell
ebenjaminv9/hello-world Hello-world 0
tayal13/hello-world hello-world 0
mbrainar/hello-world Python-based hello-world web service 0
wouterm/hello-world A simple Docker image with an Nginx server ... 1
boxboat/hello-world https://gitlab.com/boxboat/hello-world 1
layint/hello-world hello-world image cached for system CI tests 0
cInperez/hello-world multi-arch hello-world image 0
raveena87/hello-world hello-world:latest 1
thomaspoignant/hello-world-rest-json This project is a REST hello-world API to bu... 2
wonderlic/hello-world hello-world 0
yesimages/hello-world exercise java hello-world app 1
ingee/hello-nodejs simple nodejs hello-world web-server 0
bletvaska/hello-world Funny alternative for official hello-world i... 0
souravpatnaik/hello-world-go hello-world in Golang 1
tutum/hello-world Image to test docker deployments. Has Apache... 90
neoxsys/hello-world hello-world container based on Ubuntu 16.04... 1
dockercloud/hello-world Hello World! 20
maprangzth/hello-world Docker Hello-world! 0
markmnei/hello-world-java-docker Hello-World-Java-docker 1
PS C:\Users\xnes> docker pull hello-world
Using default tag: 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
PS C:\Users\xnes>
```

docker pull imaj:sürüm şeklinde de bir işlem yapabiliyoruz bu arada.

docker images/ docker image ls : bu iki komut da aynı işlevi görüyor, sistemimize çektiğimiz imajları görüntüleyebiliyoruz sürümleri ile birlikte.

```
Windows PowerShell
blenvaska/hello-world          Funny alternative for official hello-world i... 0
souravpatnaik/hello-world-go   hello-world in Golang                             1
tutum/hello-world              Image to test docker deployments. Has Apache... 90
neoxsys/hello-world            hello-world container based on Ubuntu 16.04... 1
dockercloud/hello-world        Hello World!                                       20
maprangzth/hello-world         Docker Hello-world!                               0
markmnei/hello-world-java-docker Hello-World-Java-docker                           1
PS C:\Users\xnes> docker pull hello-world
Using default tag: latest
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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
PS C:\Users\xnes> docker images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
dockertist-app      latest       803a4052b827  6 hours ago    453MB
alpine              latest       324bc02ae123  47 hours ago   7.8MB
mysql               5.7         5107333e08a8  7 months ago   501MB
hello-world         latest       d2c94e258dcb  14 months ago  13.3kB
PS C:\Users\xnes> docker image ls
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
dockertist-app      latest       803a4052b827  6 hours ago    453MB
alpine              latest       324bc02ae123  47 hours ago   7.8MB
mysql               5.7         5107333e08a8  7 months ago   501MB
hello-world         latest       d2c94e258dcb  14 months ago  13.3kB
PS C:\Users\xnes>
```

docker image rm <imajismi> : seçtiğimiz docker imajını silmemize yarıyor.

```
Windows PowerShell
maprangzth/hello-world          Docker Hello-world!                               0
markmnei/hello-world-java-docker Hello-World-Java-docker                           1
PS C:\Users\xnes> docker pull hello-world
Using default tag: 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

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mysql               5.7         5107333e08a8  7 months ago   501MB
hello-world         latest       d2c94e258dcb  14 months ago  13.3kB
PS C:\Users\xnes> docker image rm hello-world
Untagged: hello-world:latest
Untagged: hello-world@sha256:1408fec50309afee38f3535383f5b09419e6dc0925bc69891e79d84cc4cdcec6
Deleted: sha256:d2c94e258dcb3c5ac2798d32e1249e42ef01cba4841c2234249495f87264ac5a
Deleted: sha256:ac2880ec8bb38d5c35b49d45a6ac4777544941199075dff8c4eb63e093aa81e
PS C:\Users\xnes>
```

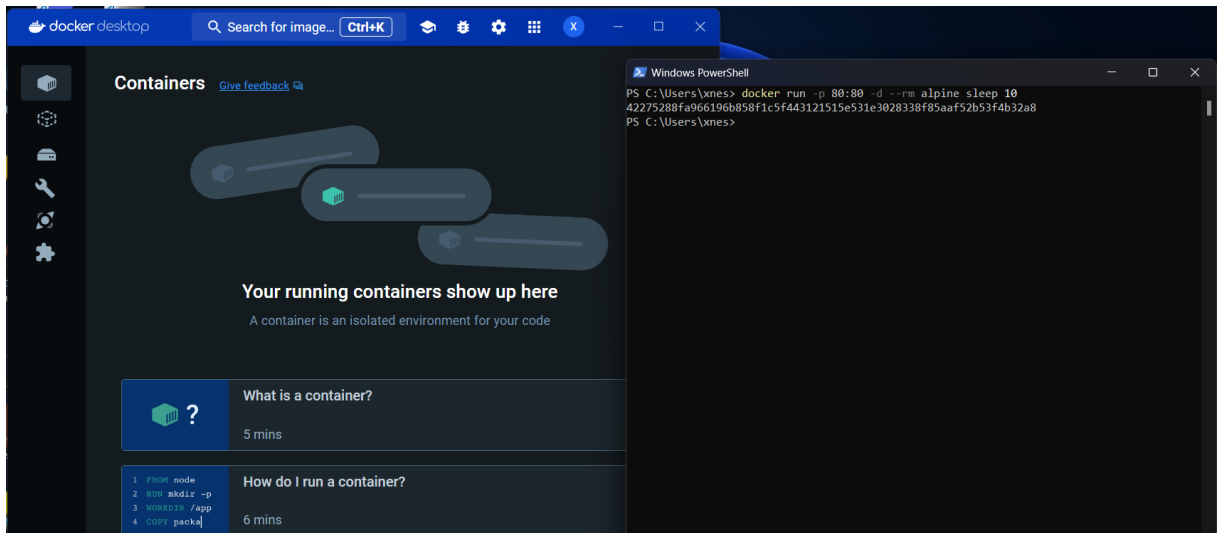
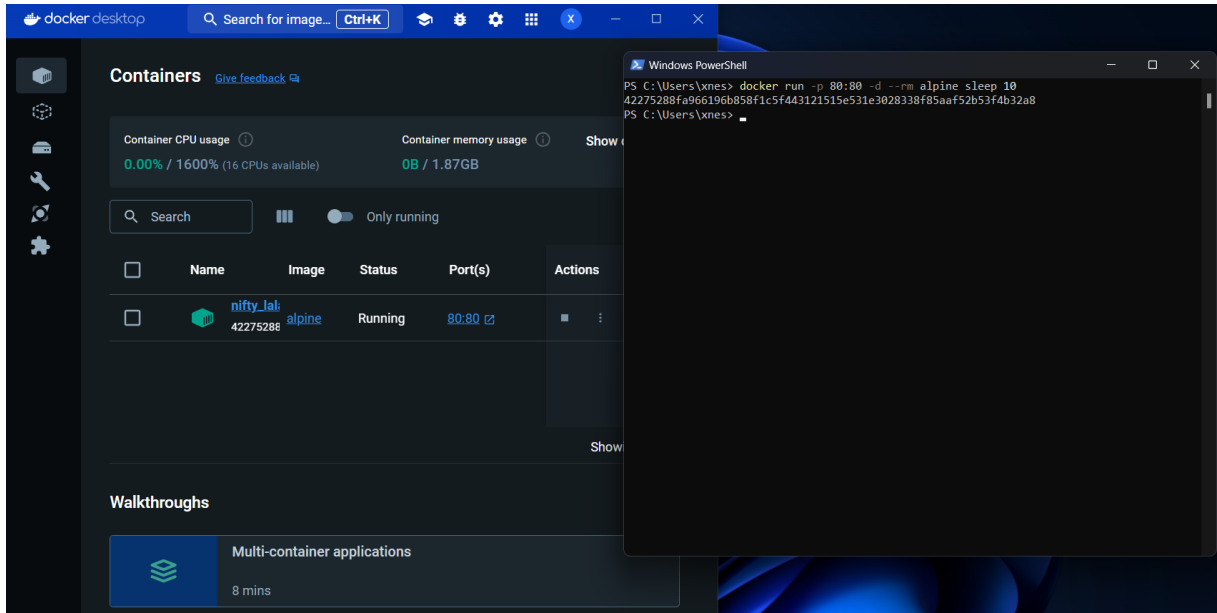
docker image inspect <imaj ismi> : seçtiğimiz imajla ilgili detayları bize verir örnek olarak hostname domain name user vb....

```
Windows PowerShell
C:\Users\xnes> docker image inspect alpine

[
  {
    "Id": "sha256:324bc02ae1231fd9255658c128086395d3fa0aedd5a41ab6b034fd649d1a9260",
    "RepoTags": [
      "alpine:latest"
    ],
    "RepoDigests": [
      "alpine@sha256:0a4eaa0eecd5f8c050e5bb8433f58c052be7587ee8af3e8b3910ef9ab5f8e9f5"
    ],
    "Parent": "",
    "Comment": "",
    "Created": "2024-07-22T22:26:43.778747613Z",
    "DockerVersion": "23.0.11",
    "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": [
        "/bin/sh"
      ],
      "Image": "sha256:3e25db883ea289c8b0d3006e7a6a03c56be09c50f03f6b228ba2fe74fd8194d2",
      "Volumes": null,
      "WorkingDir": "",
      "Entrypoint": null,
      "OnBuild": null,
      "Labels": null
    },
    "Architecture": "amd64",
    "Os": "linux",
    "Size": 7797760,
    "GraphDriver": {
      "Data": {
        "MergedDir": "/var/lib/docker/overlay2/4c698bf6892b218c50318a27a9e10ac5cb7655f882d485b54b04d3d7fadc205f/merged",
        "UpperDir": "/var/lib/docker/overlay2/4c698bf6892b218c50318a27a9e10ac5cb7655f882d485b54b04d3d7fadc205f/diff",
        "WorkDir": "/var/lib/docker/overlay2/4c698bf6892b218c50318a27a9e10ac5cb7655f882d485b54b04d3d7fadc205f/work"
      },
      "Name": "overlay2"
    },
    "RootFS": {
      "Type": "layers",
      "Layers": [
        "sha256:78561cef0761903dd2f7d09056150a6d4fb48967a8f113f3e33d79effbf59a07"
      ]
    },
    "Metadata": {
      "LastTagTime": "0001-01-01T00:00:00Z"
    }
  }
]
```

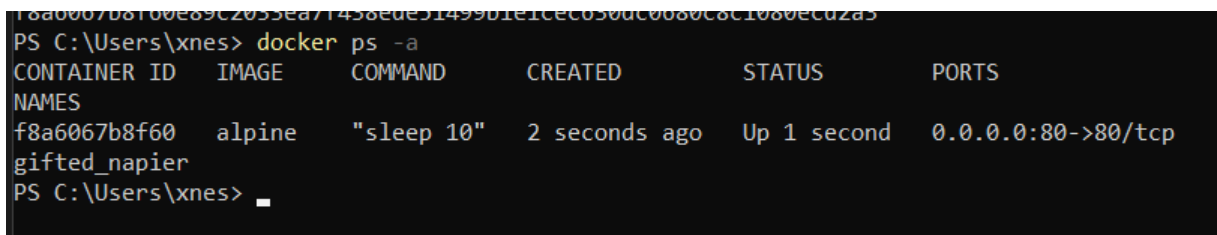
- docker run <imaj ismi> : seçilen imajın çalıştırılıp konteyner haline geçmesini sağlar
- rm :parametresi ile işi bitince silinmesini
- name <konteynerismi> : ile konteynerine özel isim vermeyi
- d :parametresi ile çalıştıktan sonra terminali kullanıcıya vermesini
- sleep 10 : 10 sn uyumasını
- it : Shell bağlanmasını
- p 80:80 : host:docker portları bağlanmasını
- e : enviroment verilmesini
- v :volume oluşturulmasını

Sağlayabiliriz ben --rm -p sleep ve -d parametrelerini vereceğim



oluştur ve silindi, oluştuktan sonra terminali bize de verdi.

docker ps -a : çalışan konteynerleri görüntüler -a parametresi de -all 'ın kısaltması o yüzden durmuş durumdakileri de görüntüler

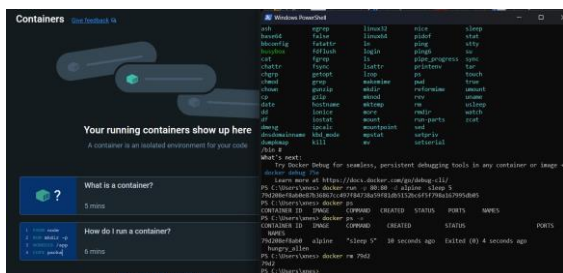
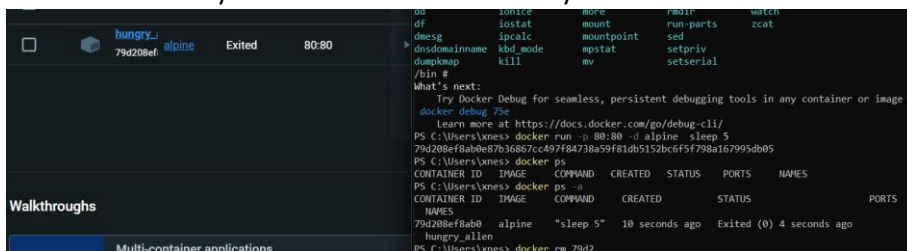


docker exec -it <konteyner id'i> sh : çalışan bir konteynerin içinden shell alabiliyoruz böyle

```
PS C:\Users\xnes> docker run -p 80:80 -d alpine sleep 50
75e46dbb51d6a0571b4e1c938e31aa0d7216a0b52e4022027a09857926dfdc9
PS C:\Users\xnes> docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS
NAMES
75e46dbb51d6   alpine    "sleep 50"              8 seconds ago Up 7 seconds  0.0.0.0:80->80/tcp
dreamy_wright
PS C:\Users\xnes> docker exec -it 75e sh
/ # whomai
sh: whomai: not found
/ # ls
bin      etc      lib      mnt      proc     run      srv      tmp      var
dev      home    media    opt      root    /sbin    sys      usr
/ # cd bin/
/bin # ls
arch      echo      link      netstat   sh
ash       egrep     linux32   nice       sleep
base64    false    linux64   pidof      stat
bbconfig  fatattr   ln         ping       stty
busybox    fdflush  login     ping6      su
cat        fgrep     ls         pipe_progress sync
chattr     fsync     lsattr    printenv   tar
chgrp      getopt    lzop      ps          touch
chmod       grep      makemime  pwd         true
chown       gunzip    mkdir     reformmime umount
cp          gzip      mknod     rev          uname
date        hostname  mktemp    rm           usleep
dd          ionice    more      rmdir        watch
df          iostat   mount     run-parts    zcat
dmesg       ipcalc   mountpoint sed
dnsdomainname kbd_mode mpstat     setpriv
dumpkmap     kill     mv         setserial
/bin #
```

bu şekilde kullanabiliyoruz shell'imizi.

docker rm <konteyner id'i> : konteyner silme



konteyneri sildik gitti

docker stop <konteyner id'i>

: çalışan konteyneri durdurabiliyoruz

The top screenshot shows the Docker Desktop 'Containers' tab. It displays a single running container named 'stupefie' with ID '77811898', using the 'alpine' image. The container is running on port 80:80. The CPU usage is 0.00% and memory usage is 576KB / 1.87GB. A 'Walkthroughs' section is visible at the bottom.

The bottom screenshot shows the same Docker Desktop interface, but the container 'stupefie' is now in an 'Exited' state. A Windows PowerShell window is open, showing the following commands and output:

```
PS C:\Users\xnes> docker run -p 80:80 -d alpine sleep 50
778118981ce379820b9693aee463990b9de807ac05a406f0462c7a7472b2cde1
PS C:\Users\xnes> docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS
778118981ce3   alpine    "sleep 50"               20 seconds ago Up 19 seconds  0.0.0.0:80->80/tcp
stupefie_albattani
PS C:\Users\xnes> docker stop 778
778
PS C:\Users\xnes>
```

böylece durdurduk konteyneri

docker volume ls

: docker volume'lerini yani ayrılmış alanları listeliyoruz

docker volume rm <volumeismi>

: seçilen volume'i siliyoruz

docker volume create <isim>

: yeni volume oluşturabiliyoruz

The top screenshot shows the Docker Desktop 'Volumes' tab. It displays a single volume named 'asd' with a size of 0 Bytes, created 0 seconds ago. A 'Create a volume' button is visible at the bottom.

The bottom screenshot shows the same Docker Desktop interface, but the volume 'asd' is now in an 'Exited' state. A Windows PowerShell window is open, showing the following commands and output:

```
PS C:\Users\xnes> docker volume create asd
asd
PS C:\Users\xnes> docker volume ls
DRIVER      VOLUME NAME
local      asd
PS C:\Users\xnes> docker volume rm asd
asd
PS C:\Users\xnes>
```

docker network ls : docker için olan sanal ağları listeliyoruz

docker network create selam :sanal ağ oluşturuyoruz

docker network create selam --driver=Host :belirleyebileceğimiz driver tipinde(host: konteyner ana makinenin her şeyine erişebiliyor ,none: konteynerin hiçbir ağa erişimi yok ,bridge: konteynerin belirlenen şekilde kısıtlı halde sanal ağlara erişimi var)

```
PS C:\Users\xnes> docker network create selam
2d5389ae65ed45edae72652c7cf80648d2f2848cc6b11970957f010b6f34a877
PS C:\Users\xnes> docker network ls
NETWORK ID      NAME      DRIVER      SCOPE
e37e9b2aa0ca    bridge    bridge       local
36fa45052fec    host      host         local
49e16b91f2c6    none      null         local
2d5389ae65ed    selam     bridge       local
```

```
PS C:\Users\xnes> docker network create selam3 --driver=bridge
396245ba158c81cd73167dd32269bbd06da923cfe638a528fb150ceb1c91f795
```

```
PS C:\Users\xnes> docker network ls
NETWORK ID      NAME      DRIVER      SCOPE
e37e9b2aa0ca    bridge    bridge       local
36fa45052fec    host      host         local
49e16b91f2c6    none      null         local
2d5389ae65ed    selam     bridge       local
396245ba158c    selam3    bridge       local
PS C:\Users\xnes> _
```