Docker Komutları

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

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:

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
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 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
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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
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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:ac28800ec8bb38d5c35b49d45a6ac4777544941199075dff8c4eb63e093aa81e
PS C:\Users\xnes>
```

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

```
Windows PowerShell

S C:\Users\xnes> docker image inspect alpine
    {
        "Id": "sha256:324bc02ae1231fd9255658c128086395d3fa0aedd5a41ab6b034fd649d1a9260",
        "RepoTags": [
            "alpine:latest"
        ],
        "RepoDigests": [
            "alpine@sha256:0a4eaa0eecf5f8c050e5bba433f58c052be7587ee8af3e8b3910ef9ab5fbe9f5"
        ],
        "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": [
                "sha256:78561cef0761903dd2f7d09856150a6d4fb48967a8f113f3e33d79effbf59a07"
            ]
        },
        "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
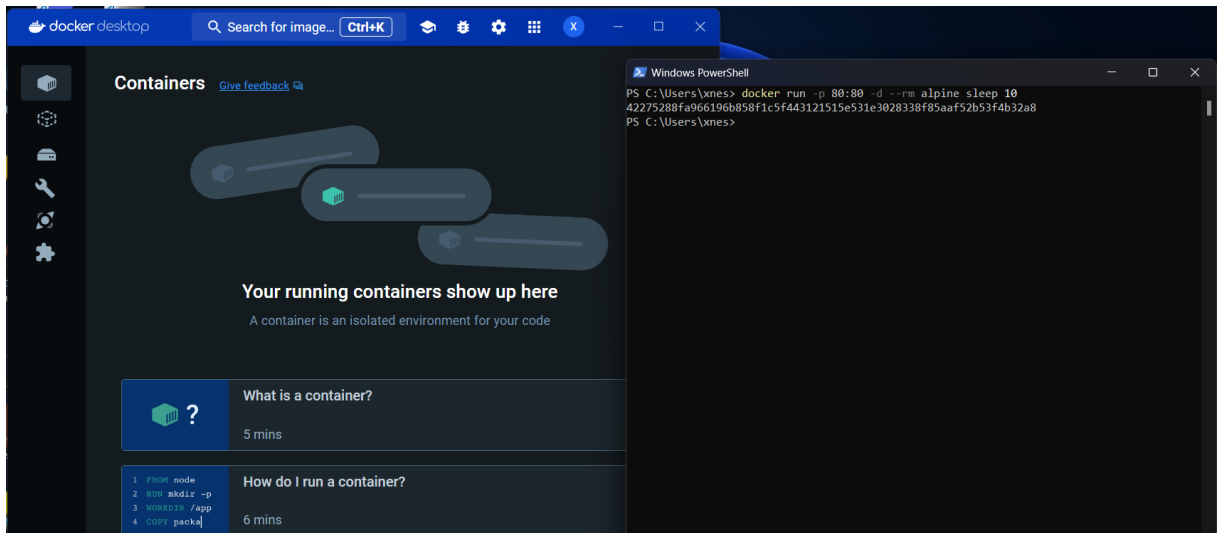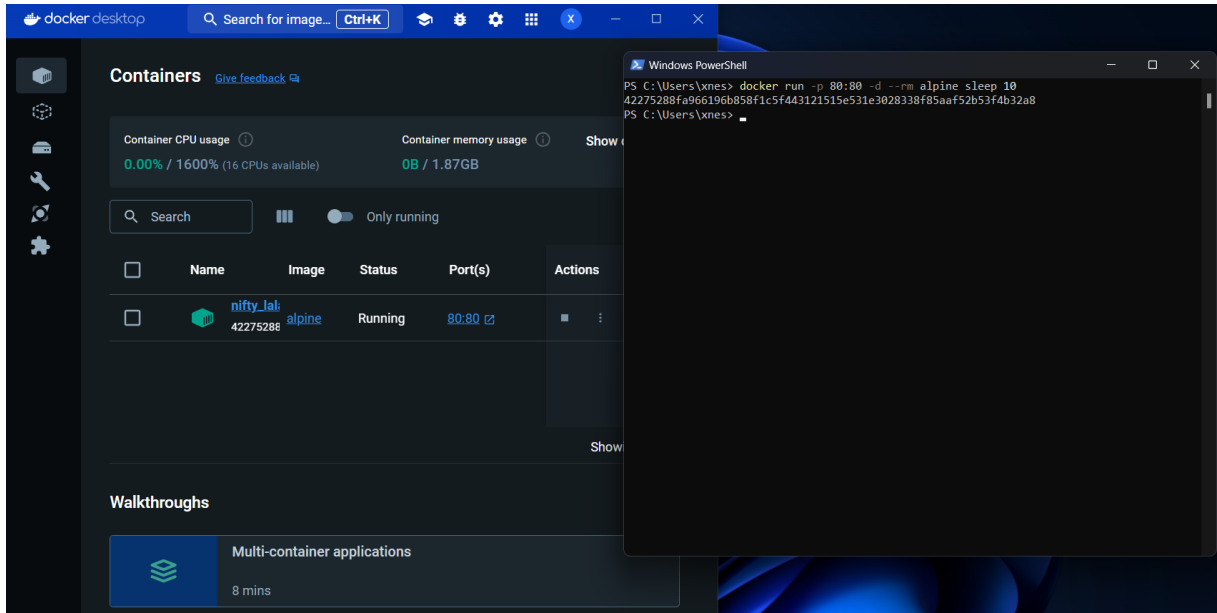
oluştu ve silindi, oluştuktan sonra terminali bize de verdi.

docker ps -a   : çalışan konteynerleri görüntüler -a parametresi de -all 'ın kısaltması
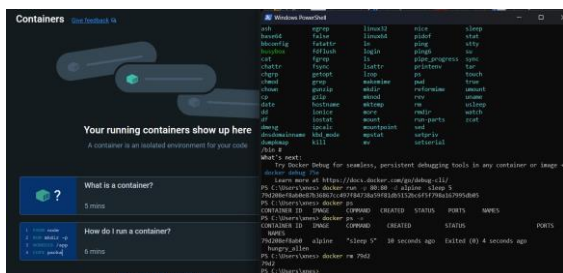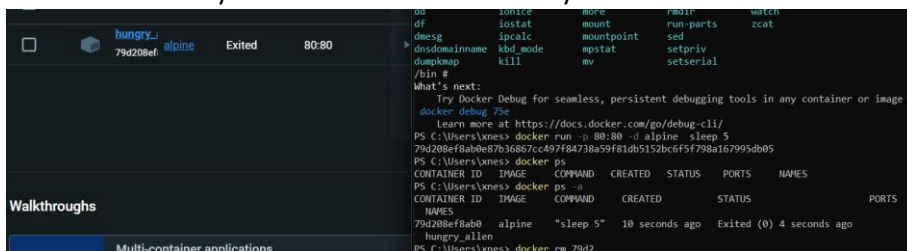o yüzden durmuş durumdakileri de görüntüler
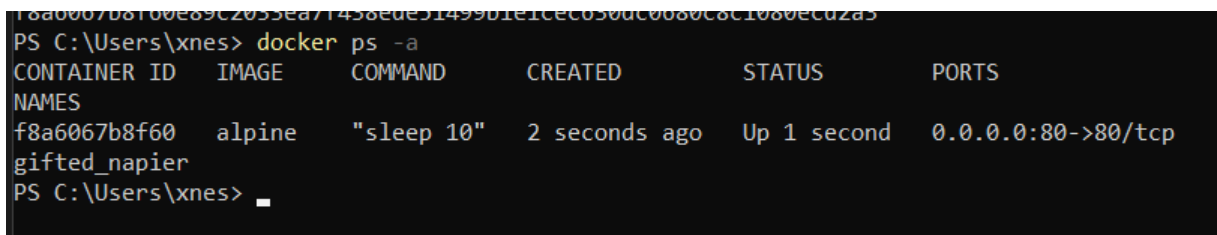
docker exec -it <konteyner id'i> sh   : çalışan bir konteynerin içinden shell alabiliyoruz böyle

bu şekilde kullanabiliyoruz shell'imizi.

docker rm <konteyner id'i>   : konteyner silme

konteyneri sildik gitti

docker stop <konteyner id'i>   : çalışan konteyneri durdurabiliyoruz

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

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>
```