# Docker Ödev

## Yavuzlar Bootcamp 2024 Docker Ödevi Ayberk İlbaş

**docker search alpine:** Tüm public konteynerler arasında alpine'ı arar

```
C:\Users\Ayberk>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\Ayberk>
```

**docker pull alpine:latest:** Alpine linux imajının son sürümünü indirir

```
C:\Users\Ayberk>docker pull alpine:latest
latest: Pulling from library/alpine
Digest: sha256:0a4eaa0eecf5f8c050e5bba433f58c052be7587ee8af3e8b3910ef9ab5fbe9f5
Status: Image is up to date for alpine:latest
docker.io/library/alpine:latest

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview alpine:latest

C:\Users\Ayberk>
```

**docker images:** Bilgidayardaki tüm Docker imajlarını gösterir

```
C:\Users\Ayberk>docker images
REPOSITORY      TAG        IMAGE ID        CREATED        SIZE
alpine          latest     324bc02ae123    46 hours ago   7.8MB

C:\Users\Ayberk>
```

**docker image ls:** docker images komutu ile aynı işlevi görür

```
C:\Users\Ayberk>docker image ls
REPOSITORY      TAG       IMAGE ID        CREATED       SIZE
alpine          latest    324bc02ae123    46 hours ago  7.8MB

C:\Users\Ayberk>
```

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**docker image inspect alpine:** Alpine Docker'ın ayrıntılı bilgilerini görüntüler.

```
C:\Users\Ayberk>docker image inspect alpine
[
    {
        "Id": "sha256:324bc02ae1231fd9255658c128086395d3fa0aedd5a41ab6b034fd649d1a9260",
        "RepoTags": [
            "alpine:latest"
        ],
        "RepoDigests": [
            "alpine@sha256:0a4eaa0eecf5f8c050e5bba433f58c052be7587ee8af3e8b3910ef9ab5fbe9f5"
        ],
        "Parent": "",
        "Comment": "",
        "Created": "2024-07-22T22:26:43.778747613Z",
        "ContainerConfig": {
            "Hostname": "",
            "Domainname": "",
            "User": "",
            "AttachStdin": false,
            "AttachStdout": false,
            "AttachStderr": false,
            "Tty": false,
            "OpenStdin": false,
            "StdinOnce": false,
            "Env": null,
            "Cmd": null,
            "Image": "",
            "Volumes": null,
            "WorkingDir": "",
            "Entrypoint": null,
            "OnBuild": null,
            "Labels": null
        },
        "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/overlay2/1926435ef2b71f84de990f7fc9a80bd00386f59f2d34d1afd60be0592e0516ce/merged",
                "UpperDir": "/var/lib/docker/overlay2/1926435ef2b71f84de990f7fc9a80bd00386f59f2d34d1afd60be0592e0516ce/diff",
                "WorkDir": "/var/lib/docker/overlay2/1926435ef2b71f84de990f7fc9a80bd00386f59f2d34d1afd60be0592e0516ce/work"
            },
            "Name": "overlay2"
        },
        "RootFS": {
            "Type": "layers",
            "Layers": [
                "sha256:78561cef0761903dd2f7d09856150a6d4fb48967a8f113f3e33d79effbf59a07"
            ]
        },
        "Metadata": {
            "LastTagTime": "0001-01-01T00:00:00Z"
        },
        "Container": ""
    }
]

C:\Users\Ayberk>
```

**docker run alpine echo "Siber Vatan":** Alpine kullanarak bir konteyner başlatır ve bu konteyner içinde "Siber Vatan" metnini yazdırır.

```
C:\Users\Ayberk>docker run alpine echo "Siber Vatan"
Siber Vatan

C:\Users\Ayberk>
```

**docker run --name Yavuzlar --rm -p 8080:80 nginx:** Nginx kullanarak Yavuzlar diye bir konteyner başlatır, 8080 numaralı portu 80 numaralı konteyner portuna yönlendirir ve konteyner durduğunda otomatik olarak silinir.

```
C:\Users\Ayberk>docker run --name Yavuzlar --rm -p 8080:80 nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
efc2b5ad9eec: Extracting [================================================>  ]  27.72MB/29.13MB
8fe9a55eb80f: Downloading [=============================================>   ]  39.66MB/41.83MB
045037a63be8: Download complete
7111b42b4bfa: Download complete
3dfc528a4df9: Download complete
9e891cdb453b: Download complete
0f11e17345c5: Download complete
^C
C:\Users\Ayberk>
```

**docker ps:** şu anda çalışan tüm Docker konteynerlarının listesini gösterir.

```
C:\Users\Ayberk>docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
```