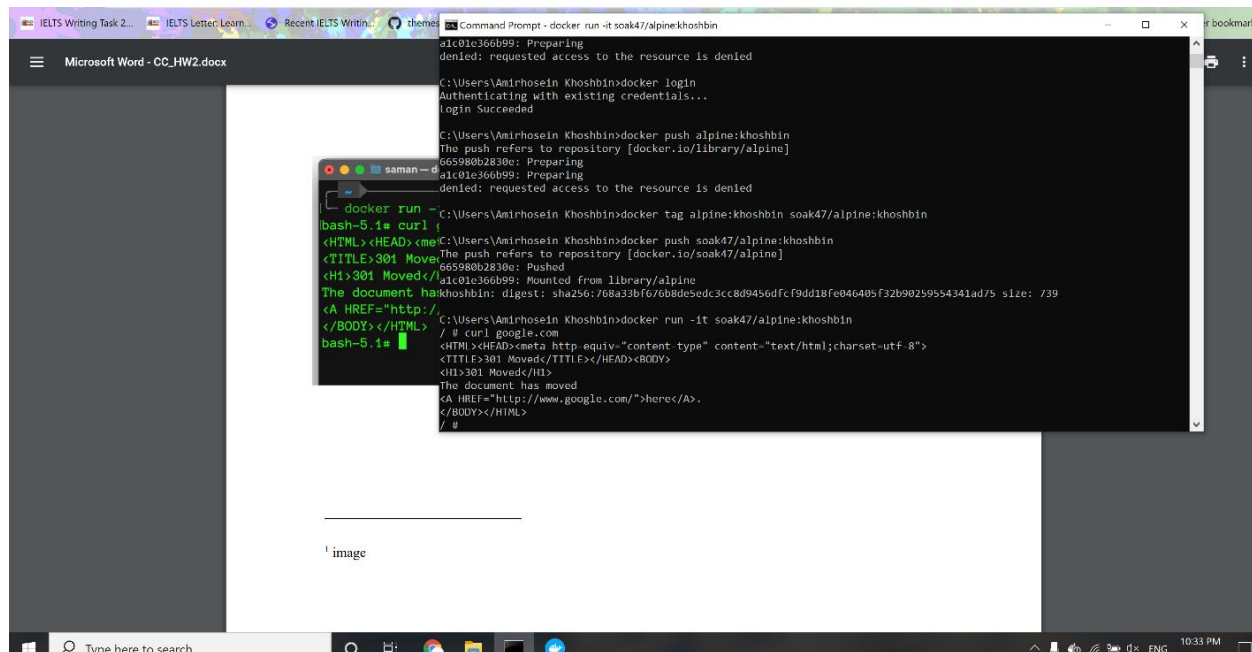


امیرحسین خوش بین ۹۶۳۱۰۲۴

گام اول

Curl رو خودم دستی اضافه کردم (dockerfile استفاده نکردم)

```
docker exec -it 9a3afb36fde4c7a38d1477afa170de2f9eadd5372b9ed620f850e69b565c97ea /bin/sh
/ # RUN apk --no-cache add curl
/bin/sh: RUN: not found
/ # apk --no-cache add curl
fetch https://dl-cdn.alpinelinux.org/alpine/v3.15/main/x86_64/APKINDEX.tar.gz
fetch https://dl-cdn.alpinelinux.org/alpine/v3.15/community/x86_64/APKINDEX.tar.gz
(1/5) Installing ca-certificates (202111220-r0)
(2/5) Installing brotli-libs (1.0.9-r5)
(3/5) Installing nghttp2-libs (1.46.0-r0)
(4/5) Installing libcurl (7.80.0-r0)
(5/5) Installing curl (7.80.0-r0)
Executing busybox-1.34.1-r4.trigger
Executing ca-certificates-202111220-r0.trigger
OK: 8 MiB in 19 packages
/ # curl --version
curl 7.80.0 (x86_64-alpine-linux-musl) libcurl/7.80.0 OpenSSL/1.1.1n zlib/1.2.12 brotli/1.0.9 nghttp2/1.46.0
Release-Date: 2021-11-10
Protocols: dict file ftp ftps gopher gophers http https imap imaps mqtt pop3 pop3s rtsp smb smbs smtp smtps telnet tftp
Features: alt-svc AsynchDNS brotli HSTS HTTP2 HTTPS-proxy IPv6 Largefile libz NTLM NTLM-WB SSL TLS-SRP UnixSockets
/ #
```



گام دوم

```
C:\Windows\System32\cmd.exe

Build an image from a Dockerfile

C:\Users\Amirhosein Khoshbin\Desktop\server>docker build -t khoshbin.
invalid argument "khoshbin." for "-t, --tag" flag: invalid reference format
See 'docker build --help'.

C:\Users\Amirhosein Khoshbin\Desktop\server>docker build -t khoshbin .
[+] Building 66.5s (4/7)
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 173B 0.1s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.1s
=> [internal] load metadata for docker.io/library/python:3.8.5-alpine 0.0s
=> [internal] load build context 11.0s
=> => transferring context: 13.64kB 0.1s
[+] Building 265.5s (5/7)
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 173B 0.0s => [internal] load .dockerignore
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3.8.5-alpine 11.0s
=> [internal] load build context 0.1s
=> => transferring context: 13.64kB 0.0s
=> [1/3] FROM docker.io/library/python:3.8.5-alpine@sha256:cbc08bfc4b1b732076742f52852ede090e960ab747 254.2s
=> => resolve docker.io/library/python:3.8.5-alpine@sha256:cbc08bfc4b1b732076742f52852ede090e960ab7470d0a60ee4f9 0.0s
=> => sha256:3e7ef1b9ebacd0589638124e0eb156f7216e4b0f2b25da8d5c905c72764a8 10.49MB / 11.45MB 254.2s
=> => sha256:cbc08bfc4b1b732076742f52852ede090e960ab7470d0a60ee4f964cf7c710a 1.65kB / 1.65kB 0.0s
=> => sha256:906616c291ddc71201c675b880e7297e5528b8d352fcbdd8b90546bb653a0a 1.37kB / 1.37kB 0.0s
=> => sha256:40911644a97016a33816b6d011025381356f652bba0e6c1d76e2b29d0e5 7.21kB / 7.21kB 0.0s
=> => sha256:df20fa9351a15702c64e6dddb2d4a6f90bf6d3688060a34c4014b0d9a752eb4c 0B / 2.80MB 254.2s
=> => sha256:36b3adc4ff0ff70ac233f0a92177205845aaf3e9a39e0f964b5dabd1423edc9 280.84kB / 280.84kB 83.0s
=> => sha256:78938f72d6a950eb5850dfdd421e99746003b748323bc50f7e9a4ce196f4fa515 0B / 230B 254.2s
context canceled

C:\Users\Amirhosein Khoshbin\Desktop\server>docker build -t khoshbin .
[+] Building 60.7s (4/7)
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 32B 0.0s
[+] Building 97.1s (8/8) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 32B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3.8.5-alpine 1.3s
=> [internal] load build context 0.1s
=> => transferring context: 490B 0.0s
=> [1/3] FROM docker.io/library/python:3.8.5-alpine@sha256:cbc08bfc4b1b732076742f52852ede090e960ab7470d0a60ee4f 84.2s
=> => resolve docker.io/library/python:3.8.5-alpine@sha256:cbc08bfc4b1b732076742f52852ede090e960ab7470d0a60ee4f9 0.0s
=> => sha256:36b3adc4ff0ff70ac233f0a92177205845aaf3e9a39e0f964b5dabd1423edc9 280.84kB / 280.84kB 6.9s
```

```
C:\Users\Amirhosein Khoshbin\Desktop\server>docker run -it p8080:8080 --rm -d --name kh --env-file=env khoshbin
762c48355d7b0f9809a02532b316a7b675b2e2a95db7d9ccc00fd630a74cbb

C:\Users\Amirhosein Khoshbin\Desktop\server>docker exec -it kh /bin/sh
/ #

{
  message: {
    hostname: "762c48355d7b",
    temperature: 28,
    weather descriptions: [
      "Partly cloudy"
    ],
    wind speed: 22,
    humidity: 11,
    feelslike: 26
  }
}
```

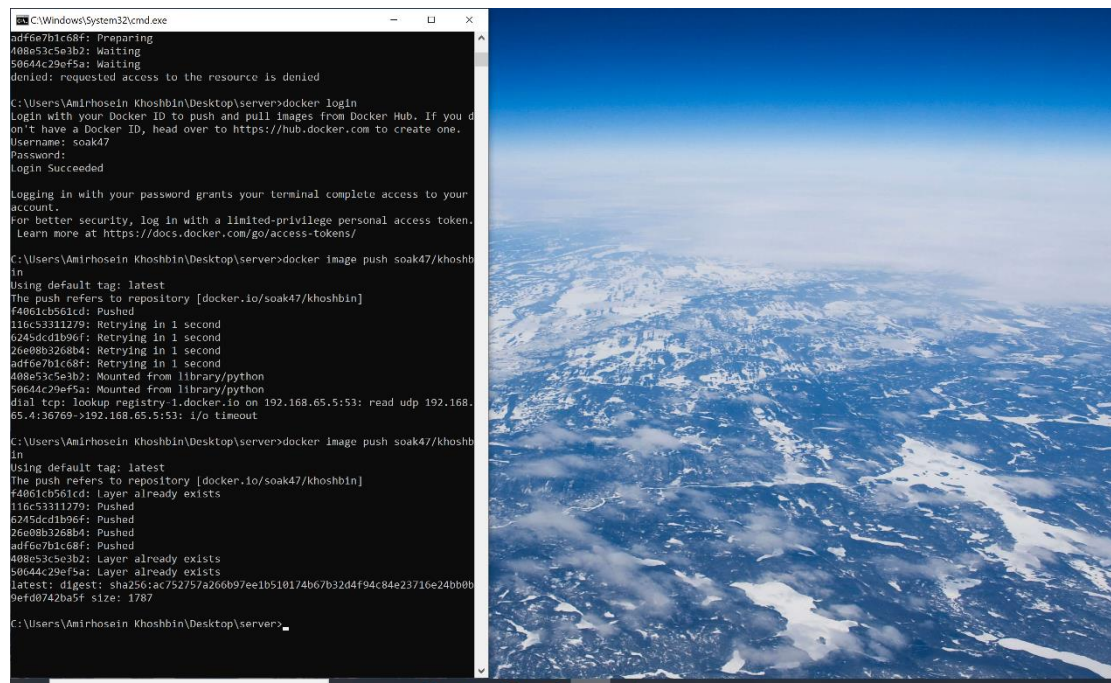
```
Command Prompt
Microsoft Windows [Version 10.0.19041.1466]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Amirhosein Khoshbin>curl
curl: try 'curl --help' for more information

C:\Users\Amirhosein Khoshbin>curl --request GET --url 'http://localhost:8080'
curl: (3) URL using bad/illegal format or missing URL

C:\Users\Amirhosein Khoshbin>curl --request GET --url 'localhost:8080'
curl: (3) URL using bad/illegal format or missing URL

C:\Users\Amirhosein Khoshbin>curl --request GET --url http://localhost:8080
{"message": {"hostname": "762c4835d7b", "temperature": 28, "weather descriptions": ["Partly cloudy"], "wind speed": 22, "humidity": 11, "feelslike": 26}}
C:\Users\Amirhosein Khoshbin>
```



گام سوم و چهارم

```
C:\Windows\System32\cmd.exe
configmap "server-conf" deleted

C:\Users\Amirhosein Khoshbin\Desktop\weather>kubectl create configmap server-conf --from-file env -o yaml > config.yaml

C:\Users\Amirhosein Khoshbin\Desktop\weather>kubectl create deployment net-utils --image=soak47/khoshbin:latest -o yaml > net-utils-
deployment.yaml --dry-run=client

C:\Users\Amirhosein Khoshbin\Desktop\weather>kubectl create deployment server-deploy --image=soak47/khoshbin:latest --port=8080 --re
plicas=2 -o yaml > deployment.yaml

C:\Users\Amirhosein Khoshbin\Desktop\weather>kubectl create service clusterip server-deploy --tcp=80:8080 --dry-run=client -o yaml >
service.yaml

C:\Users\Amirhosein Khoshbin\Desktop\weather>kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
server-deploy-79db49c759-bv2wl      1/1     Running   0           61s
server-deploy-79db49c759-dft4r      1/1     Running   0           61s

C:\Users\Amirhosein Khoshbin\Desktop\weather>kubectl apply -f net-utils-deployment.yaml
deployment.apps/net-utils created

C:\Users\Amirhosein Khoshbin\Desktop\weather>
```

```
C:\Users\Amirhosein Khoshbin\Desktop\weather>kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
net-utils-8875c8656-txmz1          1/1     Running   0           23s
server-deploy-79db49c759-bv2wl      1/1     Running   0           3m3s
server-deploy-79db49c759-dft4r      1/1     Running   0           3m3s

C:\Users\Amirhosein Khoshbin\Desktop\weather>
```

```
C:\Users\Amirhosein Khoshbin\Desktop\weather>kubectl get pods -o wide
NAME                                READY   STATUS    RESTARTS   AGE   IP           NODE       NOMINATED NODE   READINESS GATES
net-utils-8875c8656-txmz1          1/1     Running   0           109m  172.17.0.6   minikube   <none>            <none>
server-deploy-79db49c759-bv2wl      1/1     Running   0           112m  172.17.0.3   minikube   <none>            <none>
server-deploy-79db49c759-dft4r      1/1     Running   0           112m  172.17.0.4   minikube   <none>            <none>

C:\Users\Amirhosein Khoshbin\Desktop\weather>
```

با دستور wget

```
C:\Windows\System32\cmd.exe - kubect exec -it net-utils-8875c8656-bmzl -- /bin/sh
error: you must specify at least one command for the container

C:\Users\Amirhosein\Khoshbin\Desktop\weather>kubect exec -it net-utils-8875c8656-txmzl -- /bin/sh
/ # wget server-deploy
/ # wget server-deploy
Wget: bad address 'server-deploy'
/ # wget services
/ # wget services
Wget: bad address 'services'
/ # wget server-service
/ # wget server-service
Wget: bad address 'server-service'
/ # command terminated with exit code 1

C:\Users\Amirhosein\Khoshbin\Desktop\weather>get services
'get' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Amirhosein\Khoshbin\Desktop\weather>kubectl get services
NAME          TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)    AGE
kubernetes    ClusterIP      10.96.0.1      <none>          443/TCP     47m

C:\Users\Amirhosein\Khoshbin\Desktop\weather>kubectl apply -f service.yml
service/server-deploy created

C:\Users\Amirhosein\Khoshbin\Desktop\weather>kubectl exec -it net-utils-8875c8656-txmzl -- /bin/sh
/ # wget server-deploy
Connecting to server-deploy (10.101.9.89:80)
Saving to 'index.html'
index.html      100% [*****] 171 0:00:00 ETA
'index.html' saved
/ # cat index.html
{"message": {"hostname": "server-deploy-79db49c759-dft4r", "temperature": 28, "weather descriptions": ["Partly cloudy"], "wind speed": 19, "humidity": 8, "feelslike": 26}}/ #
```

با دستور curl

```
/ # curl
curl: try 'curl --help' or 'curl --manual' for more information
/ # curl server-deploy
{"message": {"hostname": "server-deploy-79db49c759-dft4r", "temperature": 26, "weather descriptions": ["Partly cloudy"], "wind speed": 7, "humidity": 9, "feelslike": 24}}/ #
C:\Users\Amirhosein\Khoshbin\Desktop\weather>kubectl get service
NAME          TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)    AGE
kubernetes    ClusterIP      10.96.0.1      <none>          443/TCP     3h5m
server-deploy ClusterIP      10.101.9.89    <none>          80/TCP     137m

C:\Users\Amirhosein\Khoshbin\Desktop\weather>kubectl get configmap
NAME          DATA  AGE
kube-root-ca.crt  1      3h5m
server-conf      1      144m

C:\Users\Amirhosein\Khoshbin\Desktop\weather>kubectl get deployment
NAME          READY  UP-TO-DATE  AVAILABLE  AGE
net-utils     1/1    1            1           142m
server-deploy 2/2    2            2           143m

C:\Users\Amirhosein\Khoshbin\Desktop\weather>kubectl get ep
NAME          ENDPOINTS          AGE
kubernetes    192.168.49.2:8443  3h5m
server-deploy 172.17.0.3:8080,172.17.0.4:8080 137m
```