

Домашна 7 - Kubernetes (pods)

1. nano index.html

```
GNU nano 8.3 index.html Modified
<!DOCTYPE html>
<html>
<head><title>Hello from static page</title></head>
<body><h1>Welcome to my static page</h1></body>
</html>
```

2. nano Dockerfile

```
GNU nano 8.3 Dockerfile Modified
FROM nginx:alpine

COPY index.html /usr/share/nginx/html/index.html
```

3. docker build -t markoivanovsk1/nginx-static:latest .

```
marko@Marko-PC MINGW64 /D/FINKI/Semester-6/KIII/Domasna-7
$ docker build -t markoivanovsk1/nginx-static:latest .
[+] Building 6.3s (8/8) FINISHED                                docker:desktop-linux
=> [internal] load build definition from Dockerfile              0.1s
=> => transferring dockerfile: 105B                             0.0s
=> [internal] load metadata for docker.io/library/nginx:alpine  1.9s
=> [auth] library/nginx:pull token for registry-1.docker.io     0.0s
=> [internal] load .dockerignore                                 0.1s
=> => transferring context: 2B                                    0.0s
=> [internal] load build context                                0.2s
=> => transferring context: 169B                                  0.0s
=> [1/2] FROM docker.io/library/nginx:alpine@sha256:65645c7bb6a0661892a8b03b89d0743208a18dd2f3f17a54ef4b76fb8e2f2a1 2.4s
=> => resolve docker.io/library/nginx:alpine@sha256:65645c7bb6a0661892a8b03b89d0743208a18dd2f3f17a54ef4b76fb8e2f2a1 0.1s
=> => sha256:39c2ddfd6010082a4a646e7ca44e95aca9bf3eae00f17f7ccc2954004f2a7d 15.52MB / 15.52MB 1.0s
=> => sha256:34a64644b756511a2e217f0508e11d1a572085d66cd6dc9a555a082ad49a3102 1.40kB / 1.40kB 0.3s
=> => sha256:197eb75867ef4fcedc4724f17b0972ab0489436860a594a9445f8eaff8155053 1.21kB / 1.21kB 0.4s
=> => sha256:81bd8ed7ec6789b0cb7f1b47ee731c522f6dba83201ec73cd6bca1350f582948 402B / 402B 0.4s
=> => sha256:d7e5070240863957ebb0b5a44a5729963c3462666baa2947d00628cb5f2d5773 955B / 955B 0.2s
=> => sha256:b464cfd2a6319875aeb27359ec549790ce14d8214fcb16ef915e4530e5ed235 629B / 629B 0.2s
=> => sha256:61ca4f733c802afd9e05a32f0de0361b6d713b8b53292dc15fb093229f648674 1.79MB / 1.79MB 0.3s
=> => extracting sha256:61ca4f733c802afd9e05a32f0de0361b6d713b8b53292dc15fb093229f648674 0.2s
=> => extracting sha256:b464cfd2a6319875aeb27359ec549790ce14d8214fcb16ef915e4530e5ed235 0.1s
=> => extracting sha256:d7e5070240863957ebb0b5a44a5729963c3462666baa2947d00628cb5f2d5773 0.1s
=> => extracting sha256:81bd8ed7ec6789b0cb7f1b47ee731c522f6dba83201ec73cd6bca1350f582948 0.1s
=> => extracting sha256:197eb75867ef4fcedc4724f17b0972ab0489436860a594a9445f8eaff8155053 0.1s
=> => extracting sha256:34a64644b756511a2e217f0508e11d1a572085d66cd6dc9a555a082ad49a3102 0.1s
=> => extracting sha256:39c2ddfd6010082a4a646e7ca44e95aca9bf3eae00f17f7ccc2954004f2a7d 0.4s
=> [2/2] COPY index.html /usr/share/nginx/html/index.html      0.9s
=> => exporting to image                                          0.6s
=> => exporting layers                                           0.3s
=> => exporting manifest sha256:23586c771f3f7f50c5ba86bfd413ea6ba74a442f3b5a793c9651506c45d62fad 0.0s
=> => exporting config sha256:daded2d9cc88b61ee9ebbe1e27f3c4fde2b434a881cdd203de6eb84660ad51e0 0.0s
=> => exporting attestation manifest sha256:65a28f5abaf9848de2a8e51937cb8776e35bfd2554a3bf42ff00f192e20c9533 0.1s
=> => exporting manifest list sha256:d55eae7d93ad7072de1ba8ce3c29ff268ce13ef4b146a6bce49cffd2ece58792 0.0s
=> => naming to docker.io/markoivanovsk1/nginx-static:latest  0.0s
=> => unpacking to docker.io/markoivanovsk1/nginx-static:latest 0.1s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/gmlff6p5yahvxygdyvfnb8u
```

4. docker push markoivanovsk1/nginx-static:latest

```
marko@Marko-PC MINGW64 /D/FINKI/Semester-6/KIII/Domasna-7
$ docker push markoivanovsk1/nginx-static:latest
The push refers to repository [docker.io/markoivanovsk1/nginx-static]
61ca4f733c80: Pushed
34a64644b756: Pushed
1d41c560b5a4: Pushed
d7e507024086: Pushed
f18232174bc9: Mounted from dpage/pgadmin4
197eb75867ef: Pushed
8a2ee1c4112e: Pushed
b464cfd62a63: Pushed
81bd8ed7ec67: Pushed
39c2ddfd6010: Pushed
latest: digest: sha256:d55eae7d93ad7072de1ba8ce3c29ff268ce13ef4b146a6bce49cffd2ece58792 size: 856
```

5. nano nginx-pod.yml

```
GNU nano 8.3 nginx-pod.yml Modified
apiVersion: v1
kind: Pod
metadata:
  name: nginx-static
spec:
  containers:
  - name: nginx
    image: markoivanovsk1/nginx-static:latest
    ports:
    - containerPort: 80
```

6. kubectl apply -f nginx-pod.yml

```
marko@Marko-PC MINGW64 /D/FINKI/Semester-6/KIII/Domasna-7
$ kubectl apply -f nginx-pod.yml
pod/nginx-static created
```

7. kubectl get pods -w

```
marko@Marko-PC MINGW64 /D/FINKI/Semester-6/KIII/Domasna-7
$ kubectl get pods -w
```

NAME	READY	STATUS	RESTARTS	AGE
nginx-static	1/1	Running	0	22s