#032 Kubernetes - Pods lab 2

Introduction

this is part 32 from the journey it's a long journey(360 day) so go please check previous parts, and if you need to walk in the journey with me please make sure to follow because I may post more than once in 1 Day but surely I will post daily at least one ③.

And I will cover lot of tools as we move on.

lab

in last part we create a pod. we are going to delete this pod using

```
(base) in ~
> kubectl delete pods first-pod
pod "first-pod" deleted
(base) in ~
>
```

```
kubectl delete first-pod
```

let's create a pod from it

```
(base) in ~
> kubectl run first-pod --image=emondek/simple-api:latest --restart=Never
pod/first-pod created
```

```
kubectl run first-pod --image=emondek/simple-api:latest --
restart=Never
```

let's take a look

```
(base) in ~
> kubectl get pods

NAME READY STATUS RESTARTS AGE
first-pod 0/1 ContainerCreating 0 11s
```

```
kubectl get pods
```

we can see status creating container, if we need more info about it we type

```
(base) in ~
> kubectl describe pods/first-pod
Name: first-pod
Namespace: default
Priority: 0
Node: minikube/192.168.99.100
Start Time: Fri, 10 Jul 2020 01:03:44 +0300
Labels: run=first-pod
Annotations: <none>
Status: Pending
```

```
kubectl describe pods/first-pod
```

if we scroll down we can see events

```
Events:

Type Reason Age From Message

Normal Scheduled 42s default-scheduler Successfully assigned default/first-pod to minikube Pulling image "emondek/simple-api:latest"

(base) in ~

>
```

it's now on image pulling phase

after pulling we can see now that status is RUNNING

```
(base) in ~
> kubectl get pods

NAME READY STATUS RESTARTS AGE

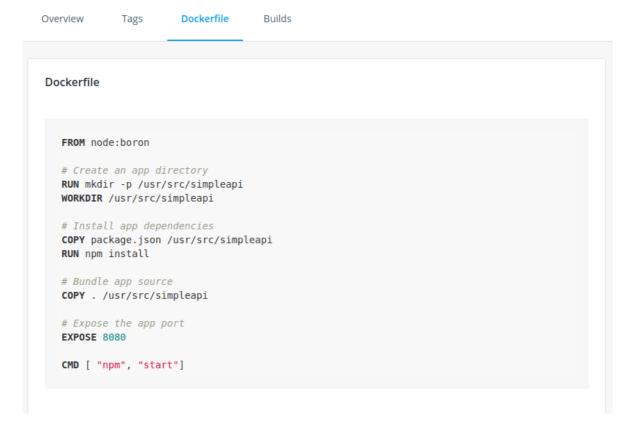
first-pod 1/1 Running 0 21m
(base) in ~
```

now to run this pod in browser we need services(will talk about them later) but we have a nice hack to run it for now

```
(base) in ~
> kubectl port-forward pods/first-pod 8080
Forwarding from 127.0.0.1:8080 -> 8080
Forwarding from [::1]:8080 -> 8080
Handling connection for 8080
```

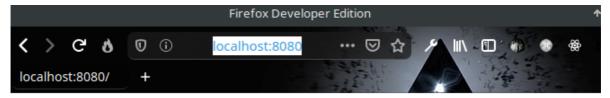
```
kubectl port-forward pods/first-pod 8080
```

8080 is the port the we decide to use in dockerfile



if we go to the browser and type http://localhost:8080/

we have our pod running



Simple API says "Hello!"

we can also access this pod using

```
(base) in ~
> kubectl exec -it first-pod -- bash
root@first-pod:/usr/src/simpleapi# ls
Dockerfile LICENSE README.md index.js node_modules package.json
root@first-pod:/usr/src/simpleapi#
```

kubectl exec -it first-pod -- bash

-- it separate the commands that related to kubectl and linux.
 And every change we make to this pod will be discarded just like container so also we need volumes here: D