

# Step four

In this step we will run first app in a kubernetes cluster. and request with curl to get btc data.

## 4.1 run app in kubernetes cluster

```
minikube kubectl -- run curl --image=mohamadch91/curln --restart=Never
minikube kubectl -- exec --stdin --tty curl /bin/bash
```

## 4.2 check result

```
minikube kubectl -- get all
```

then

```
minikube kubectl -- logs ${POD_NAME}
```

## Results

we see all requests with curl

```
mohamad@mamads: /mnt/mamads/uni/7/Cloud/HW/cloudComputing-HWs/HW2/step_three/crypto$ minikube kubectl -- exec --stdin --tty curl /bin/bash
kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.
root@curl:/# curl -d "crypto_name=btc" -X POST 10.96.69.215:8000/crypto/price/
{"name":"Bitcoin","price":16777.483912388616,"detail":"Retrieved from API"}root@curl:/# curl -d "crypto_name=btc" -X POST 10.96.69.215:8000/crypto/price/
{"name":"Bitcoin","price":16777.483912388616,"detail":"Retrieved from Cache"}root@curl:/# curl -d "crypto_name=eth" -X POST 10.96.69.215:8000/crypto/price/
{"name":"Ethereum","price":1210.0539707055925,"detail":"Retrieved from API"}root@curl:/# curl -d "crypto_name=eth" -X POST 10.96.69.215:8000/crypto/price/
{"name":"Ethereum","price":1210.0539707055925,"detail":"Retrieved from Cache"}root@curl:/# curl -d "crypto_name=eth" -X POST 10.96.69.215:8000/crypto/price/
{"name":"Ethereum","price":1210.0539707055925,"detail":"Retrieved from Cache"}root@curl:/# curl -d "crypto_name=eth" -X POST 10.96.69.215:8000/crypto/price/
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{"name":"Ethereum","price":1210.0539707055925,"detail":"Retrieved from Cache"}root@curl:/# curl -d "crypto_name=eth" -X POST 10.96.69.215:8000/crypto/price/
{"name":"Ethereum","price":1210.0539707055925,"detail":"Retrieved from Cache"}root@curl:/# curl -d "crypto_name=btc" -X POST 10.96.69.215:8000/crypto/price/
{"name":"Bitcoin","price":16777.483912388616,"detail":"Retrieved from Cache"}root@curl:/#
```

requests go to pod1

```
mohamad@mamads: /mnt/mamads/uni/7/Cloud/HW/cloudComputing-HWs/HW2/step_three/crypto$ minikube kubectl -- logs crypto-d976c557d-llvtj
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
December 22, 2022 - 13:40:10
Django version 4.1.4, using settings 'crypto.settings'
Starting development server at http://0.0.0.0:8000/
Quit the server with CONTROL-C.
[22/Dec/2022 14:01:39] "POST /crypto/price/ HTTP/1.1" 200 77
[22/Dec/2022 14:01:48] "POST /crypto/price/ HTTP/1.1" 200 76
[22/Dec/2022 14:04:34] "POST /crypto/price/ HTTP/1.1" 200 78
[22/Dec/2022 14:04:36] "POST /crypto/price/ HTTP/1.1" 200 78
```

requests go to pod2

```
raise RuntimeError(
RuntimeError: You called this URL via POST, but the URL doesn't end in a slash and you have APPEND_SLASH set. Django can't redirect to the slash URL while m
. Change your form to point to 10.96.69.215:8000/crypto/price/ (note the trailing slash), or set APPEND_SLASH=False in your Django settings.
[22/Dec/2022 13:59:42] "POST /crypto/price HTTP/1.1" 500 63929
[22/Dec/2022 14:01:35] "POST /crypto/price/ HTTP/1.1" 200 75
[22/Dec/2022 14:04:35] "POST /crypto/price/ HTTP/1.1" 200 78
[22/Dec/2022 14:04:36] "POST /crypto/price/ HTTP/1.1" 200 78
[22/Dec/2022 14:04:37] "POST /crypto/price/ HTTP/1.1" 200 78
[22/Dec/2022 14:04:42] "POST /crypto/price/ HTTP/1.1" 200 77
```