MiniKube

Перевіримо статус Minikube

```
dmytro@ubuntuserver:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
```

Створимо pod із Nginx

```
dmytro@ubuntuserver:~$ kubectl run nginx-pod --image=nginx --port=80 pod/nginx-pod created dmytro@ubuntuserver:~$ ■
```

Перевіримо чи род створено

```
dmytro@ubuntuserver:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-pod 0/1 ContainerCreating 0 28s
dmytro@ubuntuserver:~$ ■
```

Створимо сервіс для доступу до Nginx

```
dmytro@ubuntuserver:~$ kubectl expose pod nginx-pod --type=NodePort --name=nginx-service service/nginx-service exposed dmytro@ubuntuserver:~$ ■
```

Перетворимо створений сервіс

```
dmytro@ubuntuserver:~$ kubectl get services
                             CLUSTER-IP EXTERNAL-IP 10.96.0.1 <none>
NAME
                                                            PORT(S)
                                                                             AGE
                TYPE
                ClusterIP
                                                                             11d
kubernetes
                                                            443/TCP
               NodePort
                             10.103.113.7 <none>
                                                            80:31548/TCP
                                                                             75s
nginx-service
dmytro@ubuntuserver:~$
```

Взнаємо IP адресу Minikube

```
dmytro@ubuntuserver:~$ minikube ip
192.168.49.2
dmytro@ubuntuserver:~$ ■
```

Перевіримо доступність до Nginx

```
dmytro@ubuntuserver:~$ curl http://192.168.49.2:31548
<!DOCTYPE html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<head>
<head</he>
</he>

For online documentation and support please refer to <a here! "http://nginx.org/">nginx.org</a>

<pre
```

Внесемо зміни до сервісу Minikube, щоб сервіс nginx-service був створений із IP адоеси віртуальної машини

```
dmytro@ubuntu22:~$ kubectl edit service nginx-service service/nginx-service edited
```

Замінимо NodePort на LoadBalancer

```
apiVersion: v1
kind: Service
metadata:
  creationTimestamp: "2024-12-25T13:49:01Z"
  labels:
    run: nginx-pod
  name: nginx-service
  namespace: default
  resourceVersion: "1034"
  uid: 23092af7-e40c-486f-815f-604ad08e9a45
  allocateLoadBalancerNodePorts: true
  clusterIP: 10.110.153.187
  clusterIPs:
  externalTrafficPolicy: Cluster
  internalTrafficPolicy: Cluster
  ipFamilies:
  - IPv4
  ipFamilyPolicy: SingleStack
  ports:
  - nodePort: 30683
    port: 80
    protocol: TCP
    targetPort: 80
  selector:
    run: nginx-pod
  sessionAffinity: None
  type: LoadBalancer
status:
  loadBalancer: {}
```

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to $\underline{nginx.org}.$ Commercial support is available at $\underline{nginx.com}.$

Thank you for using nginx.