Lab 3 - Zadanie

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Tworzenie namespace lab4

```
kubectl create namespace lab4
```

lab4-namespace.yaml

```
apiVersion: v1
kind: ResourceQuota
metadata:
  name: lab4-quota
spec:
  hard:
  pods: "5"
    limits.cpu: "1000m"
  limits.memory: "1Gi"
```

kubectl apply -n lab4 -f lab4-namespace.yaml

Deployment

restrictednginx.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: restrictednginx
  namespace: lab4
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx-template
  template:
    metadata:
      labels:
        app: nginx-template
    spec:
      containers:
      - name: nginx-container
        image: nginx
        resources:
          limits:
            memory: "256Mi"
            cpu: "250m"
          requests:
            memory: "64Mi"
            cpu: "125m"
```

kubectl apply -f restrictednginx.yaml

Sprawdzenie poprawności

Sprawdzenie przestrzeni nazw lab4

```
kubectl get namespace
```

```
PS D:\Studia IX\3. Programowanie full-stack w chmurze\2023-10-24_Lab_4> kubectl get namespace
NAME
                       STATUS
                                AGE
default
                               27d
                       Active
                               27d
                       Active
kube-node-lease
kube-public
                       Active
                                27d
kube-system
                               27d
                       Active
kubernetes-dashboard
                               27d
                       Active
                      Active
lab3
                               14d
lab4
                       Active
                               20m
                       Active 27d
production
```

kubectl get deployment restrictednginx -n lab4

Sprawdzenie deployment w przestrzeni nazw lab4

```
DS Daystadia TVA Daystadia 5-11 atauka ak
```

```
PS D:\Studia IX\3. Programowanie full-stack w chmurze\2023-10-24_Lab_4> kubectl get deployment restrictednginx -n lab

NAME READY UP-TO-DATE AVAILABLE AGE
restrictednginx 3/3 3 3 4m14s

Szczegóły podów w przestrzeni nazw lab4.
```

kubectl describe pods -n lab4

```
PS D:\Studia IX\3. Programowanie full-stack w chmurze\2023-10-24_Lab_4> kubectl describe pods -n lab4
```

```
restrictednginx-5bf5c9fcff-4llxx
Name:
Namespace:
              lab4
Priority:
             minikube/192.168.49.2
Node:
Start Time: Tue, 07 Nov 2023 09:22:24 +0100
              app=nginx-template
Labels:
              pod-template-hash=5bf5c9fcff
Annotations: <none>
              Running
Status:
IP:
              10.244.0.38
IPs:
                10.244.0.38
Controlled By: ReplicaSet/restrictednginx-5bf5c9fcff
Containers:
  nginx-container:
    Container ID:
                    docker://aa973546893b8829795b99380fdc1126ebd726ffa8846cdd313e0824ac6acc74
    Image:
    Image ID:
                    docker-pullable://nginx@sha256:86e53c4c16a6a276b204b0fd3a8143d86547c967dc8258b3d47c3a21bb68d3c6
    Port:
                    <none>
    Host Port:
                    <none>
                    Running
    State:
                    Tue, 07 Nov 2023 09:22:29 +0100
      Started:
    Ready:
    Restart Count: 0
    Limits:
               250m
      cpu:
      memory: 256Mi
    Requests:
                  125m
      cpu:
                  64Mi
      memory:
    Environment: <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-d76rm (ro)
Polecenie pokazuje 3 utworzone pody.
```

Name: restrictednginx-5bf5c9fcff-4llxx Namespace: lab4

```
Priority:
              0
             minikube/192.168.49.2
Node:
Start Time: Tue, 07 Nov 2023 09:22:24 +0100
              app=nginx-template
Labels:
              pod-template-hash=5bf5c9fcff
Annotations: <none>
Status:
              Running
              10.244.0.38
IP:
IPs:
 IP:
                10.244.0.38
              restrictednginx-5bf5c9fcff-9z742
Name:
```

```
Namespace:
              1ab4
Priority:
              0
Node:
              minikube/192.168.49.2
Start Time:
             Tue, 07 Nov 2023 09:22:24 +0100
              app=nginx-template
Labels:
              pod-template-hash=5bf5c9fcff
Annotations: <none>
Status:
              Running
IP:
              10.244.0.39
IPs:
                10.244.0.39
  IP:
              restrictednginx-5bf5c9fcff-1418b
Name:
```

```
lab4
Namespace:
Priority:
              minikube/192.168.49.2
Node:
Start Time:
             Tue, 07 Nov 2023 09:22:24 +0100
              app=nginx-template
Labels:
              pod-template-hash=5bf5c9fcff
Annotations:
             <none>
Status:
              Running
IP:
              10.244.0.37
IPs:
 IP:
                10.244.0.37
```