

# Sprawozdanie nieobowiązkowe z laboratorium numer 4

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[https://github.com/Kacper-adamiak/full\\_stack\\_laboratory/tree/master/lab\\_4](https://github.com/Kacper-adamiak/full_stack_laboratory/tree/master/lab_4)

Zawartość pliku lab\_4.yaml

```
apiVersion: v1
kind: List
items:
-
  apiVersion: v1
  kind: Namespace
  metadata:
    name: lab4
-
  apiVersion: v1
  kind: ResourceQuota
  metadata:
    name: lab4-quota
    namespace: lab4
  spec:
    hard:
      cpu: "1000m"
      memory: "1Gi"
      pods: "5"
-
  apiVersion: apps/v1
  kind: Deployment
  metadata:
    name: restrictednginx
    namespace: lab4
  spec:
    replicas: 3
    selector:
      matchLabels:
        app: restrictednginx
    template:
      metadata:
        labels:
          app: restrictednginx
      spec:
        containers:
          - name: nginx
            image: nginx
            resources:
              requests:
                memory: "64Mi"
```

```
cpu: "125m"
limits:
  memory: "256Mi"
  cpu: "250m"
```

Wykonanie pliku lab4.yaml

```
~/Doc/S/Full_Stack/lab_4 master !2 ?1 ▶ kubectl create -f lab_4.yaml
namespace/lab4 created
resourcequota/lab4-quota created
deployment.apps/restrictednginx created
```

Sprawdzenie utworzenia przestrzeni nazw lab4

```
~/Doc/S/Full_Stack/lab_4 master !2 ?1 ▶ kubectl get all -n lab4
```

NAME	READY	STATUS	RESTARTS	AGE
pod/restrictednginx-5dcd9dc88c-pqm7h	1/1	Running	0	38s
pod/restrictednginx-5dcd9dc88c-qj4mh	1/1	Running	0	38s
pod/restrictednginx-5dcd9dc88c-smlvc	1/1	Running	0	38s

  

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
deployment.apps/restrictednginx	3/3	3	3	38s

  

NAME	DESIRED	CURRENT	READY	AGE
replicaset.apps/restrictednginx-5dcd9dc88c	3	3	3	38s

Sprawdzenie zawartości przestrzeni nazw lab4

```
~/Doc/S/Full_Stack/lab_4 master !2 ?1 ▶ kubectl get all -n lab4
```

NAME	READY	STATUS	RESTARTS	AGE
pod/restrictednginx-5dcd9dc88c-pqm7h	1/1	Running	0	38s
pod/restrictednginx-5dcd9dc88c-qj4mh	1/1	Running	0	38s
pod/restrictednginx-5dcd9dc88c-smlvc	1/1	Running	0	38s

  

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
deployment.apps/restrictednginx	3/3	3	3	38s

  

NAME	DESIRED	CURRENT	READY	AGE
replicaset.apps/restrictednginx-5dcd9dc88c	3	3	3	38s

Sprawdzenie zasad w przestrzeni nazw lab4

```
~/Doc/S/Full_Stack/lab_4 master !2 ?1 kubectl describe namespaces lab4
Name: lab4
Labels: kubernetes.io/metadata.name=lab4
Annotations: <none>
Status: Active

Resource Quotas
Name: lab4-quota
Resource Used Hard
-----
cpu 375m 1
memory 192Mi 1Gi
pods 3 5

No LimitRange resource.
```

Sprawdzenie zasad tworzenia restrictednginx

```
~/Doc/S/Full_Stack/lab_4 master !2 ?1 kubectl describe deployments.apps restrictednginx -n lab4
Name: restrictednginx
Namespace: lab4
CreationTimestamp: Thu, 26 Oct 2023 10:46:16 +0200
Labels: <none>
Annotations: deployment.kubernetes.io/revision: 1
Selector: app=restrictednginx
Replicas: 3 desired | 3 updated | 3 total | 3 available | 0 unavailable
StrategyType: RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels: app=restrictednginx
  Containers:
    nginx:
      Image: nginx
      Port: <none>
      Host Port: <none>
      Limits:
        cpu: 250m
        memory: 256Mi
      Requests:
        cpu: 125m
        memory: 64Mi
      Environment: <none>
      Mounts: <none>
      Volumes: <none>
  Conditions:
    Type Status Reason
    ----
    Available True MinimumReplicasAvailable
    Progressing True NewReplicaSetAvailable
OldReplicaSets: <none>
NewReplicaSet: restrictednginx-5dcd9dc88c (3/3 replicas created)
Events:
  Type Reason Age From Message
  ----
  Normal ScalingReplicaSet 4m49s deployment-controller Scaled up replica set restrictednginx-5dcd9dc88c to 3
```