

Lab 12 - Zadanie

SecurityContext - przypomnienie. Zasady konfiguracji zasad dostępu do zasobów API. Obiekty ServiceAccount, Role oraz RoleBinding. Zasięg tworzonych zasad.

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Dockerfile i prywatne repo

```
FROM nginx:latest
```

Utworzenie prywatnego repozytorium na docker-hub

student232323 / lab12

Description

This repository does not have a description

Created: less than a minute ago

Docker commands

To push a new tag to this repository:

```
docker push student232323/lab12:tagname
```

```
docker login
docker build -t student232323/lab12:lab12 .
docker push student232323/lab12:lab12
```

Plik yaml

```
apiVersion: v1
kind: Pod
metadata:
  name: test12
spec:
  containers:
    - name: nginx-container
      image: student232323/lab12:lab12
  imagePullSecrets:
    - name: dockerhub-secret
```

Tworzenie secret

```
kubectl create secret docker-registry dockerhub-secret --docker-server=https://index.docker.io/v1/

kubectl get secret
```

```
C:\Studia\3. Programowanie full-stack w chmurze\Lab_12_2024-01-16>kubectl get secret
NAME                                TYPE                                DATA  AGE
dockerhub-secret                    kubernetes.io/dockerconfigjson     1      2m25s
```

```
kubectl apply -f test12.yaml
kubectl get pods
kubectl describe pod test12
```

```
C:\Studia\3. Programowanie full-stack w chmurze\Lab_12_2024-01-16>kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
lab10-deployment-7d664f6674-2w99b  1/1     Running   4 (11m ago)  7d
lab10-deployment-7d664f6674-cclwb  1/1     Running   4 (11m ago)  7d
lab10-deployment-7d664f6674-hxhjd  1/1     Running   4 (11m ago)  7d
lab10-deployment-7d664f6674-pbrmv  1/1     Running   4 (11m ago)  7d
stepcd-28431006-qjgqc              0/1     Error     0           10m
stepcd-28431012-ctljk              0/1     Completed 0           5m32s
stepcd-28431014-m5zsp              0/1     Completed 0           3m32s
stepcd-28431016-gnwmn              0/1     Completed 0           92s
test12                              1/1     Running   0           48s
```

```
C:\Studia\3. Programowanie full-stack w chmurze\Lab_12_2024-01-16>kubectl describe pod test12
Name: test12
Namespace: default
Priority: 0
Service Account: default
Node: minikube/192.168.49.2
Start Time: Sun, 21 Jan 2024 19:16:44 +0100
Labels: <none>
Annotations: cnf.projectcalico.org/containerID: adb80dbdf3272a861b5d6b423d94e3eebab3b93b3295a1b3e150e6b6773139bb
              cnf.projectcalico.org/podIP: 10.244.120.81/32
              cnf.projectcalico.org/podIPs: 10.244.120.81/32
Status: Running
IP: 10.244.120.81
IPs:
  IP: 10.244.120.81
Containers:
  nginx-container:
    Container ID: docker://2604562a53e217a9a5d54f9ddd5d3c255ed8a700af4cbd87cbbdd47fbde4c6e4
    Image: student232323/lab12:lab12
    Image ID: docker-pullable://student232323/lab12@sha256:9ceac672f55cdad7316651fcced0d6a1ba44e87454ec86236cb3bca647e419f6
    Port: <none>
    Host Port: <none>
    State: Running
      Started: Sun, 21 Jan 2024 19:17:04 +0100
    Ready: True
    Restart Count: 0
    Environment: <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-42j8h (ro)
Conditions:
  Type             Status
  Initialized       True
  Ready             True
  ContainersReady   True
  PodScheduled      True
Volumes:
  kube-api-access-42j8h:
    Type: Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds: 3607
    ConfigMapName: kube-root-ca.crt
    ConfigMapOptional: <nil>
    DownwardAPI: true
QoS Class: BestEffort
Node-Selectors: <none>
Tolerations: node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
              node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
  Type     Reason      Age   From          Message
  ----     -
  Normal   Scheduled   3m21s default-scheduler Successfully assigned default/test12 to minikube
  Normal   Pulling     3m21s kubelet       Pulling image "student232323/lab12:lab12"
  Normal   Pulled      3m3s  kubelet       Successfully pulled image "student232323/lab12:lab12" in 18.002s (18.002s including waiting)
  Normal   Created     3m2s  kubelet       Created container nginx-container
  Normal   Started     3m2s  kubelet       Started container nginx-container
```

```
C:\Studia\3. Programowanie full-stack w chmurze\Lab_12_2024-01-16>
```