КИИИ Домашна 10

Create cluster

```
PS D:\fakultet\3god\6 semestar\kiii\domasni\domasna 10> k3d cluster create k8sCluster5 -p "32222:32222@agent:0" -s 1 -a 3
INFO[0000] Prep: Network
INFO[0001] Created network 'k3d-k8sCluster5'
INFO[0001] Created image volume k3d-k8sCluster5-images
```

emqx.yml file

```
PS D:\fakultet\3god\6 semestar\kiii\domasni\domasna 10> cat .\emqx.yml
  app: emqx
serviceName: emqx
        ports:
          mountPath: /opt/emqx/data
```

```
name: <u>configmap</u>
key: <u>EMQX_CLUSTER__DISCOVERY</u>
- name: <u>EMQX_NAME</u>
            name: <u>configmap</u>
key: <u>EMQX_NAME</u>
   - name: EMQX_CLUSTER__K8S__APISERVER
name: emqx-vol
storageClassName: local-path
resources:
```

configmap.yml

```
name: configmap
_EMQX_CLUSTER _DISCOVERY: k8s
EMQX_NAME: emqx
EMQX_CLUSTER__K8S_
 EMQX_CLUSTER__K8S__NAMESPACE: default
EMQX_CLUSTER__K8S__SERVICE_NAME: emqx
   PS D:\fakultet\3god\6 semestar\kiii\domasni\domasna 10> kubectl get configmap
```

Deploy service and statefulSet

```
PS D:\fakultet\3god\6 semestar\kiii\domasni\domasna 10> kubectl apply -f .\emqx.yml
service/emqx created
statefulset.apps/emqx created
                                                                    kubectl get pods -o wide --watch NOMINATED NODE READINESS GATES
          ultet\3god\6 semestar\kiii\
READY STATUS
0/1 ContainerCreating
```

Storage class, persistent volume claim, persistent volume

Verify the running nodes

```
PS D:\fakultet\3god\6 semestar\kiii\domasni\domasna 10> kubectl get pods

NAME READY STATUS RESTARTS AGE

emqx-0 1/1 Running 0 3m8s

emqx-1 1/1 Running 0 2m29s

emqx-2 1/1 Running 0 110s

PS D:\fakultet\3god\6 semestar\kiii\domasni\domasna 10> kubectl exec emqx-0 -- /opt/emqx/bin/emqx_ctl cluster status

Cluster status: #frunning_nodes => ['emqx@10.42.0.6'], stopped_nodes => []}

PS D:\fakultet\3god\6 semestar\kiii\domasni\domasna 10> kubectl exec emqx-1 -- /opt/emqx/bin/emqx_ctl cluster status
```

kubectl exec emqx-2 -- /opt/emqx/bin/emqx_ctl cluster status

