## Tarefa 4

## Giordano de Andrades Lima

## Link para o GitHub:

https://github.com/giordanolima/curso-kubernets

- Considerando o uso do kind, crie um cluster com 3 nodes workrs representando o nodepool A e 2 nodes workers representando o nodepool B. A ideia é que os nodes pools tenham esta característica: (no caso do kind isso ficará apenas convencionado os nodepools serão iguais)
- nodepool tipo A
- hardware=low
- Apps básicas = ngnix
- nodepool tipo B
- - hardware=high
- - Apps Criticas = apache

```
giordano@giordano:-/Documentos/KubernetsCurso/curso-kubernets/tarefa4$ kind create cluster --config kind-config.yaml
Creating cluster "tarefa4" ...

✓ Ensuring node image (kindest/node:v1.33.1) 
✓ Preparing nodes 
✓ Writing configuration

✓ Starting control-plane 
✓ Installing CNI 
✓ Installing Storageclass

✓ Joining worker nodes 
✓ Set kubectl context to "kind-tarefa4"
You can now use your cluster with:

kubectl cluster-info --context kind-tarefa4

Thanks for using kind! 
✓ giordano@giordano:-/Documentos/KubernetsCurso/curso-kubernets/tarefa4$ kubectl get nodes

NAME STATUS ROLES AGE VERSION

tarefa4-control-plane NotReady control-plane 19s v1.33.1

tarefa4-worker NotReady <none> 9s v1.33.1

giordano@giordano:-/Documentos/KubernetsCurso/curso-kubernets/tarefa4$

□ Joining worker NotReady <none> 9s v1.33.1

giordano@giordano:-/Documentos/KubernetsCurso/curso-kubernets/tarefa4$

□ Joining worker NotReady <none> 9s v1.33.1

giordano@giordano:-/Documentos/KubernetsCurso/curso-kubernets/tarefa4$
```

- Fazer o deploy do nginx sem ter configurado taints e tolerations
- Configurar taint e tolerations
- Fazer o deploy de apache

```
NAME
                        STATUS
                                   ROLES
                                                          VERSION
tarefa4-control-plane
                        NotReady
                                   control-plane
                                                    19s
                                                          v1.33.1
tarefa4-worker
                        NotReady
                                                    9s
                                                          v1.33.1
                                   <none>
tarefa4-worker2
                        NotReady
                                   <none>
                                                          v1.33.1
giordano@giordano:~/Documentos/KubernetsCurso/curso-kubernets/tarefa4$ kubectl apply -f nginx-deployment.yaml
deployment.apps/nginx-deployment created
giordano@giordano:~/Documentos/KubernetsCurso/curso-kubernets/tarefa4$ kubectl get pods
                                  READY
                                          STATUS
                                                               RESTARTS
                                                                          AGE
nginx-deployment-96b9d695-7w7b9
                                          Running
                                                                          9s
nginx-deployment-96b9d695-9pt87
                                  1/1
                                           Running
nginx-deployment-96b9d695-nlsj9
                                  0/1
                                           ContainerCreating
                                                               0
giordano@giordano:~/Documentos/KubernetsCurso/curso-kubernets/tarefa4$ kubectl get pods
NAME
                                                    RESTARTS
                                  READY
                                          STATUS
nginx-deployment-96b9d695-7w7b9
                                           Running
                                                     0
                                                                16s
nginx-deployment-96b9d695-9pt87
                                           Running
                                                     0
                                                                16s
nginx-deployment-96b9d695-nlsj9
                                           Running
                                                     0
                                                                16s
```

```
s/KubernetsCurso/curso-kubernets/tarefa4$ kubectl taint nodes tarefa4-worker apps=low:NoSchedule
   node/tarefa4-worker tainted
 giordano@giordano:~/Documentos/KubernetsCurso/curso-kubernets/tarefa4$ kubectl taint nodes tarefa4-worker apps=high:NoSchedule
error: node tarefa4-worker already has apps taint(s) with same effect(s) and --overwrite is false
giordano@giordano:~/Documentos/KubernetsCurso/curso-kubernets/tarefa4$ kubectl taint nodes tarefa4-worker apps=low:NoSchedule
error: node tarefa4-worker already has apps taint(s) with same effect(s) and --overwrite is false
giordano@giordano:~/Documentos/KubernetsCurso/curso-kubernets/tarefa4$ kubectl taint nodes tarefa4-worker2 apps=high:NoSchedule
   node/tarefa4-worker2 tainted

        ubernetsCurso/curso-kubernets/tarefa4$ kubectl get nodes

        ROLES
        AGE
        VERSION

        control-plane
        5m31s
        v1.33.1

        <none>
        5m21s
        v1.33.1

        <none>
        5m21s
        v1.33.1

   tarefa4-control-plane
                                                                                                                                                                                    /curso-kubernecs
TUS RESTARTS
                                                                                                                                                                                                                             ernets/tarefa4$ kubectl get pods
TARTS AGE
                                                                                                  mentos/KubernetsCurs
                                                                                                                                                                     STATUS
Running
Running
Running
| Glordano@giordano:-/Documentos/KubernetsCurso/curso-kubernets/tarefa4$ kubectl get pods -o wide | NAME | NOBE | 
                                                                                                                                                                                                                kubernets/tarefa4$ kubectl get pods -o wide
  deployment.apps/nginx-deployment configured
giordano@giordano:~/Documentos/KubernetsCurs
deployment.apps/apache-deployment created
                                                                                                                                                                        rso/curso-kubernets/tarefa4$ kubectl apply -f apache-deployment.yaml
                                                                                                         entos/KubernetsCurso/curso-kubernets/tarefa4$ kubectl get pods -o wide
                                                                                                                                                                                  STATUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NOMINATED NODE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      READINESS GATES
 NAME
apache-deployment-77f45dd558-7m5l4
apache-deployment-77f45dd558-8mn2z
apache-deployment-77f45dd558-tl5lb
nginx-deployment-576d474996-gcvlq
nginx-deployment-546b474996-pjwhq
nginx-deployment-546b474996-shsvp
                                                                                                                                                                                  Running
ContainerCreating
                                                                                                                                                                                                                                                                                                                                      10.244.1.3
                                                                                                                                                                                                                                                                                                                                                                                           tarefa4-worker2
tarefa4-worker2
tarefa4-worker2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <none>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <none>
                                                                                                                                                                                                                                                                                                                                       <none>
10.244.1.4
                                                                                                                                                                                  Running
Running
Running
Running
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <none>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <none>
                                                                                                                                                                                                                                                                                                                                      10.244.2.6
10.244.2.4
10.244.2.5
                                                                                                                                                                                                                                                                                                                                                                                          tarefa4-worker
tarefa4-worker
tarefa4-worker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <none>
```