Desafío 14 Minikube + ArgoCD + Helm

Profesores: Ezequiel Gonzalez Rodriguez, Facundo Miglio

Alumno: Pedro Jonas Alandia Rios

Institución: Educación IT

Fecha de entrega: 08/10/2024

1. App en Minikube

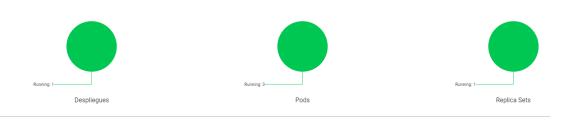
Tenemos una app "Hello, world" desplegada localmente en minikube:

```
EXPLORER
                                    ! 02-hello-app-service-node-port.yaml
                                                                          ! 01-hello-app-deployment.yaml ×
OPEN EDITORS
                       ! 01-hello-app-deployment.yaml
 × ! 02-hello-app-service-node-por...
 × ! 01-hello-app-deployment.yaml
DESAFIO-13
                   中にはり
! 01-hello-app-deployment.yaml
! 02-hello-app-service-node-port.yaml

 README.md

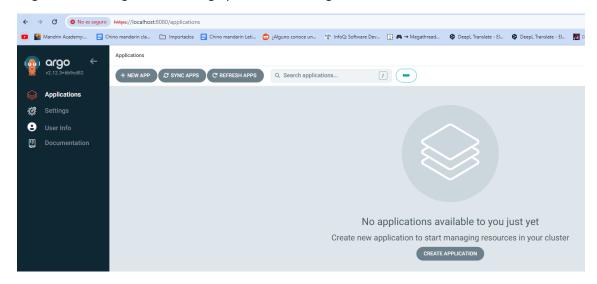
                                                 - name: hello-app
                                                  image: gcr.io/google-samples/hello-app:1.0
                                                   - containerPort: 8080
```

Estado de Carga de trabajo



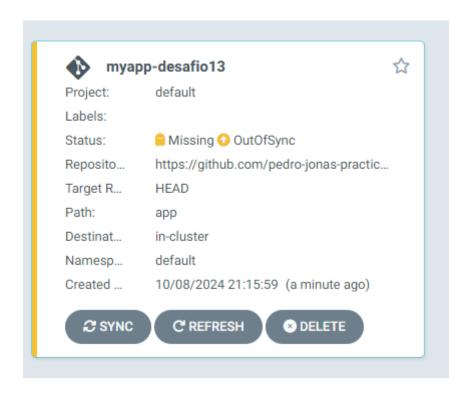
2. ArgoCD

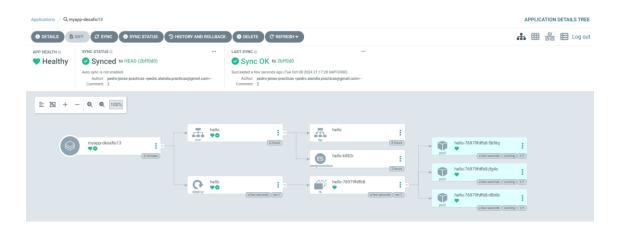
Seguimos la configuración de Argo para instalar e ingresar al front correctamente:



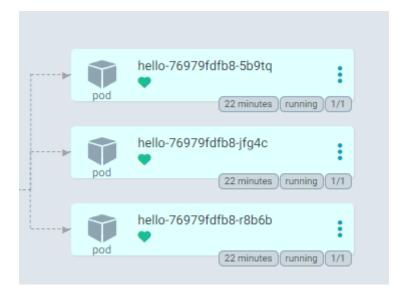
Ejecutamos nuestro manifiesto y nos dirigimos al dashboard de ArgoCD para verificar su deploy. Una vez confirmado lo sincronizamos con nuestro repositorio:

PS C:\Users\Jo\Desktop\Desafio-13> kubectl apply -f desafio13-argo.yaml application.argoproj.io/myapp-desafio13 created
PS C:\Users\Jo\Desktop\Desafio-13>





Si hacemos un curl a una nuestra ip, podemos ver el pod que nos responde del deployment:



Si modificamos el manifiesto de nuestra app, por ejemplo, extendemos la cantidad de réplicas, luego de la sincronización los pods aumentarán en nuestro dashboard:

```
Code
         Blame
                  23 lines (23 loc) · 396 Bytes
           apiVersion: apps/v1
    1
          kind: Deployment
    2
    3
          metadata:
    4
            name: hello
    5
            labels:
    6
              role: hello
    7
          spec:
            replicas: 6
    8
    9
             selector:
```





```
PS C:\Users\Jo\Desktop\Desafio-13> helm install mongol4 oci://registry-l.docker.io/bitnamicharts/mongodb
Pulled: registry-l.docker.io/bitnamicharts/mongodb:16.0.1
Digest: sha256:ea72d33cc185b4c569920ba0d9c737e8d24e8010debcfce65f050a015e6f13fd
NAME: mongol4
LAST DEPLOYED: Ned Oct 9 16:34:36 2024
NAMESPAGE: default
STATUS: deployed
REVISION: 1
TEST SUITE: None
NOTES:
CHART NAME: mongodb
CHART VERSION: 16.0.1
APP VERSION: 8.0.0

** Please be patient while the chart is being deployed **
MongoDB® can be accessed on the following DNS name(s) and ports from within your cluster:
    mongol4-mongodb.default.svc.cluster.local
To get the root password run:
    export MONGODB_ROOT_PASSWORD=$(kubectl get secret --namespace default mongol4-mongodb -o jsonpath="{.data.mongodb-root-password}" | base64 -d)
To connect to your database, create a MongoDB® client container:
    kubectl run --namespace default mongol4-mongodb-client --rm --tty -i --restart='Never' --env="MONGODB_ROOT_PASSWORD=$MONGODB_ROOT_PASSWORD" --:
Then, run the following command:
    mongosh admin --host "mongol4-mongodb" --authenticationDatabase admin -u $MONGODB_ROOT_USER -p $MONGODB_ROOT_PASSWORD
```

NAME			READ	Y STATUS	RESTART	S AGE		
pod/hello-76979fdfb8-cgn5c			1/1	Running	0	17h		
pod/hello-76979fdfb8-gf56s			1/1	Running	0	18h		
pod/hello-76979fdfb8-gjkgg			1/1	Running	0	17h		
pod/hello-76979fdfb8-hxcj2 pod/hello-76979fdfb8-jfg4c			1/1	Running	0	17h		
			1/1	Running	0	19h		
pod/hello-76979fdfb8-r8b6b			1/1	Running	0	19h		
pod/mongo14-mongodb-68fdccdcd-9stkb			1/1	Running	0	2m1	7s	
pod/my-release-mongodb-698865b895-21jmg		jmg	1/1	Running	0	9m9	s	
NAME	TYPE		CLUST	ER-IP	EXTERNAL-	IP PO	RT(S)	AGE
service/hello	NodePor	t	10.10	1.114.107	<none></none>	80	80:30001/TCP	20h
service/kubernetes	ClusterIP		10.96.0.1		<none></none>	44	3/TCP	21d
service/mongo14-mongodb	ClusterIP		10.100.215.248		<none></none>	27	017/TCP	2m17s
service/my-release-mongodb	Cluster	IΡ	10.11	0.1.235	<none></none>	27	017/TCP	9m9s
service/web	Cluster	ΙP	10.10	1.56.56	<none></none>	80	80/TCP	21d
NAME		READ	DY U	P-TO-DATE	AVAILABLE	AGE		
deployment.apps/hello		6/6	6		6	19h		
deployment.apps/mongo14-mongodb 1/1		1/1	1		1	2m17	s	
deployment.apps/my-release-mongodb 1/1		1/1	1		1 9m9s			
NAME				DESIRED	CURRENT	READY	AGE	
replicaset.apps/hello-76979f	dfb8			6	6	6	19h	
replicaset.apps/mongo14-mongodb-68fdccdcd			1	1	1	1	2m17s	
replicaset.apps/my-release-m	ongodb-6	98869	5b895	1	1	1	9m9s	
PS C:\Users\Jo\Desktop\Desaf				mongodb14				
Creating mongodb14								
			<u> </u>	<u> </u>				

espliegues			
Nombre	Imágenes	Etiquetas	Pods
		app.kubernetes.io/component: mongodb	1/1
mongo14-mongodb	docker.io/bitnami/mongodb:8.0.0-debian-12-r2	docker.io/bitnami/mongodb:8.0.0-debian-12-r2 app.kubernetes.io/instance: mongo14	
		app.kubernetes.io/managed-by: Helm Ver más	
		app.kubernetes.io/component: mongodb	1/1
my-release-mongodb	docker.io/bitnami/mongodb:8.0.0-debian-12-r2	app.kubernetes.io/instance: my-release	
		app.kubernetes.io/managed-by: Helm Ver más	
hello	qcr.io/google-samples/hello-app:1.0	app.kubernetes.io/instance: myapp-desafio13	6/6
Helio	gono/googie-samples/nello-app.1.0	role: hello	0 / 0