

Desafío 13

Minikube + ArgoCD

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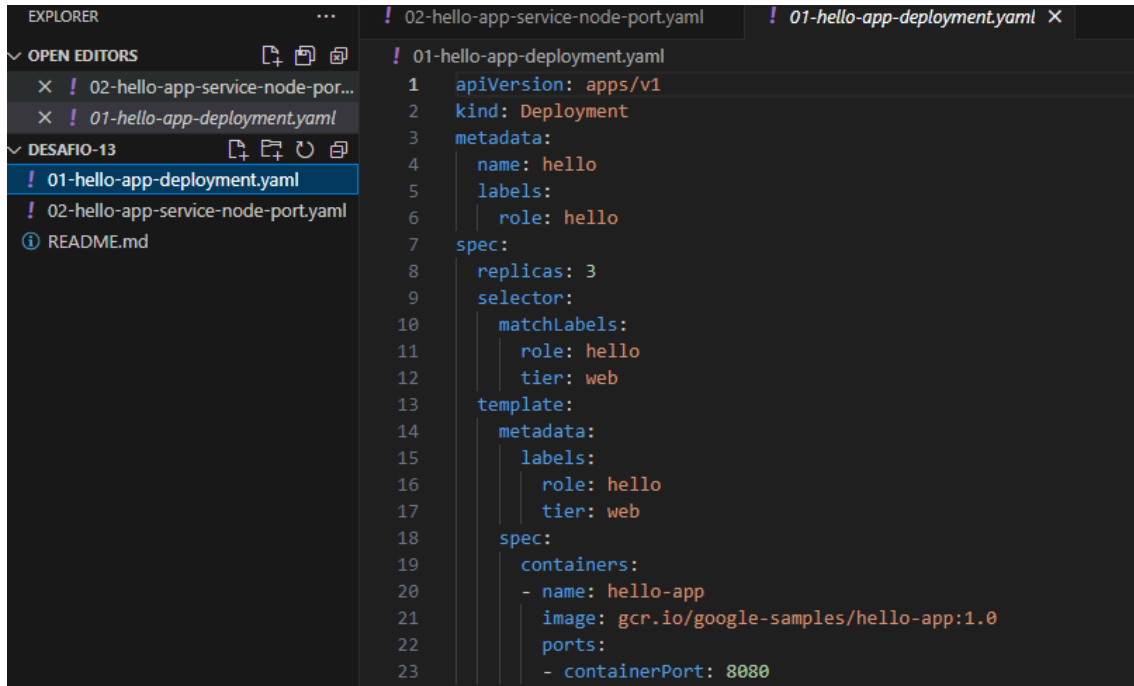
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Institución: Educación IT

Fecha de entrega: 08/10/2024

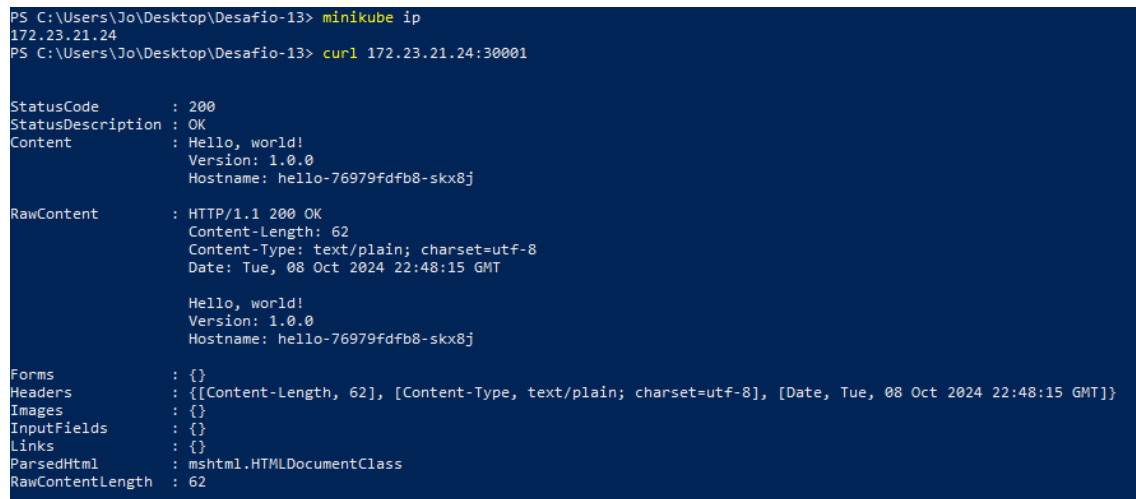
1. App en Minikube

Tenemos una app “Hello, world” desplegada localmente en minikube:



The screenshot shows a VS Code editor with two tabs open: '02-hello-app-service-node-port.yaml' and '01-hello-app-deployment.yaml'. The '01-hello-app-deployment.yaml' file is selected and shows the following content:

```
1 apiVersion: apps/v1
2 kind: Deployment
3 metadata:
4   name: hello
5   labels:
6     role: hello
7 spec:
8   replicas: 3
9   selector:
10    matchLabels:
11      role: hello
12      tier: web
13   template:
14     metadata:
15       labels:
16         role: hello
17         tier: web
18     spec:
19       containers:
20         - name: hello-app
21           image: gcr.io/google-samples/hello-app:1.0
22           ports:
23             - containerPort: 8080
```

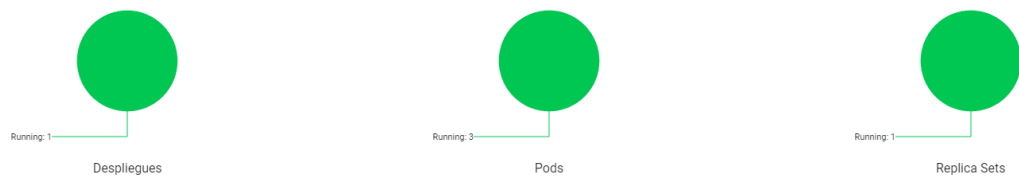


The screenshot shows a terminal window with the following commands and output:

```
PS C:\Users\Jo\Desktop\Desafio-13> minikube ip
172.23.21.24
PS C:\Users\Jo\Desktop\Desafio-13> curl 172.23.21.24:30001

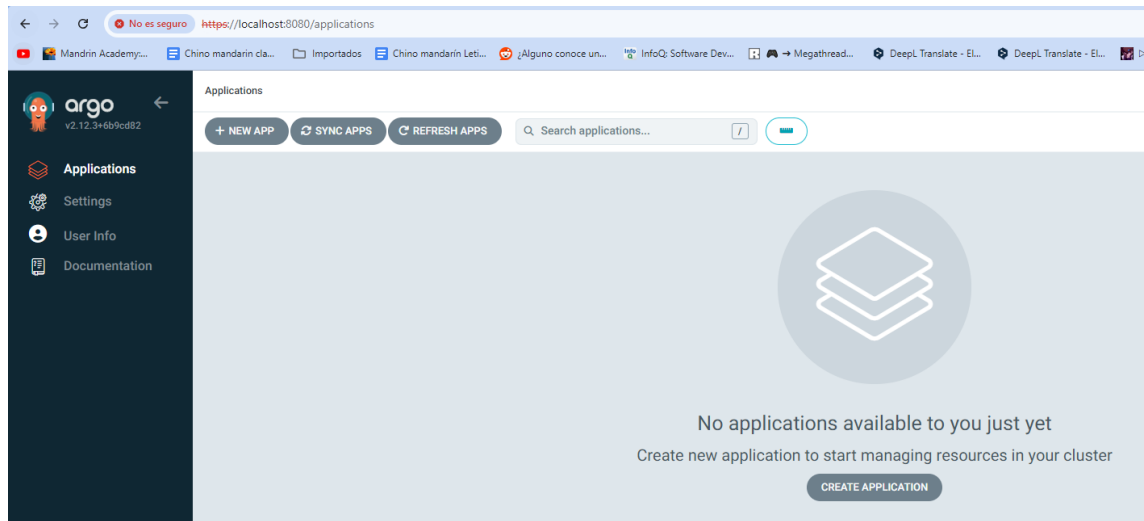
StatusCode      : 200
StatusDescription : OK
Content         : Hello, world!
                  Version: 1.0.0
                  Hostname: hello-76979fdb8-skx8j
RawContent      : HTTP/1.1 200 OK
                  Content-Length: 62
                  Content-Type: text/plain; charset=utf-8
                  Date: Tue, 08 Oct 2024 22:48:15 GMT
                  Hello, world!
                  Version: 1.0.0
                  Hostname: hello-76979fdb8-skx8j
Forms           : {}
Headers        : {[Content-Length, 62], [Content-Type, text/plain; charset=utf-8], [Date, Tue, 08 Oct 2024 22:48:15 GMT]}
Images         : {}
InputFields    : {}
Links          : {}
ParsedHtml     : mshtml.HTMLDocumentClass
RawContentLength : 62
```

Estado de Carga de trabajo



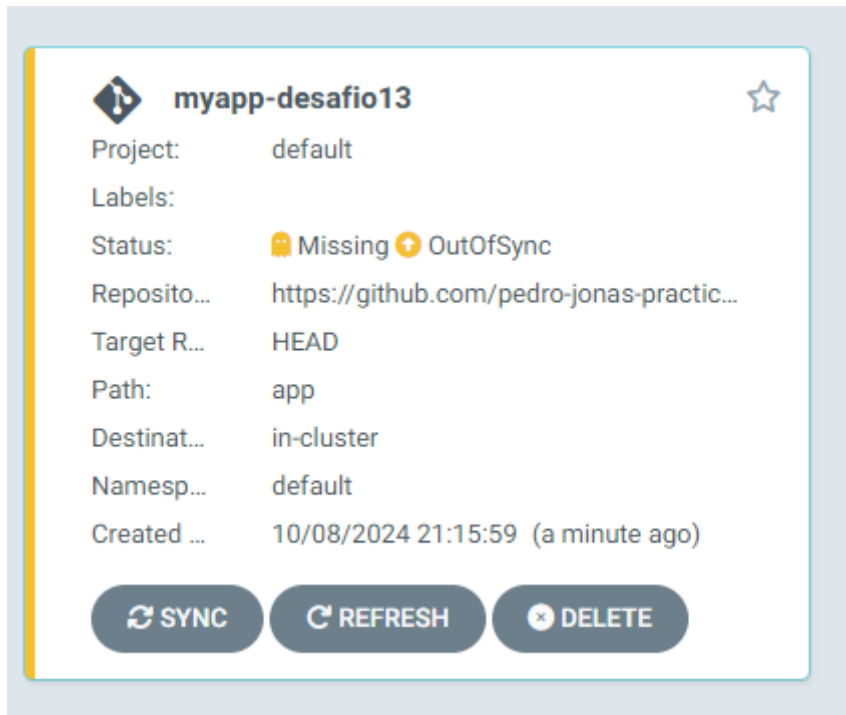
2. ArgoCD

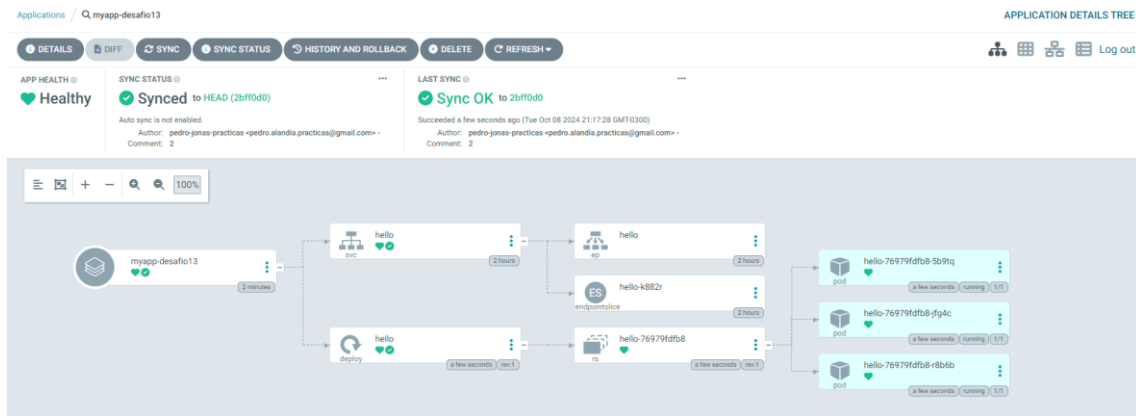
Seguimos la configuración de Argo para instalar e ingresar al front correctamente:



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:

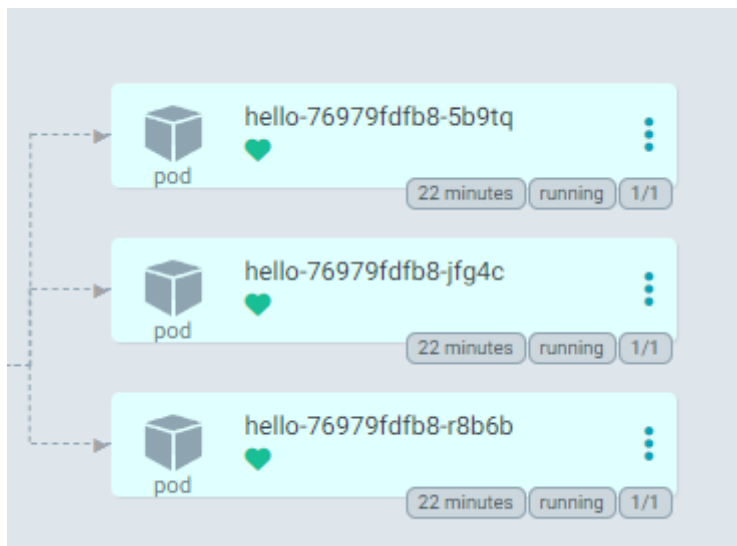
```
PS C:\Users\Jo\Desktop\Desafio-13> curl 172.23.21.24:30001

StatusCode      : 200
StatusDescription : OK
Content         : Hello, world!
                  Version: 1.0.0
                  Hostname: hello-76979fdb8-5b9tq

RawContent      : HTTP/1.1 200 OK
                  Content-Length: 62
                  Content-Type: text/plain; charset=utf-8
                  Date: Wed, 09 Oct 2024 00:18:34 GMT

                  Hello, world!
                  Version: 1.0.0
                  Hostname: hello-76979fdb8-5b9tq

Forms           : {}
Headers         : {[Content-Length, 62], [Content-Type, text/plain; charset=utf-8], [Date, Wed, 09 Oct 2024 00:18:34 GMT]}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 62
```



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

1

2

3

4

5

6

7

8

9

apiVersion: apps/v1

kind: Deployment

metadata:

name: hello

labels:

role: hello

spec:

replicas: 6

selector:

Applications / myapp-desafio13

DETAILS

DIFF

SYNC

SYNC STATUS

HISTORY AND ROLLBACK

DELETE

REFRESH

APP HEALTH

Healthy

SYNC STATUS

Synced to HEAD (3d1c27a)

Auto sync is not enabled.

Author: pedro-jonas-practicas <pedro.alandia.practicas@gmail.com> -

Comment: 2

LAST SYNC

Sync OK to 3d1c27a

Succeeded a few seconds ago (Tue Oct 08 2024 22:53:04 GMT-0300)

Author: pedro-jonas-practicas <pedro.alandia.practicas@gmail.com> -

Comment: 4

hello-76979fdb8-cgn5c

pod

a few seconds

running

1/1

hello-76979fdb8-gf56s

pod

an hour

running

1/1

hello-76979fdb8-gjkkg

pod

a few seconds

running

1/1

hello-76979fdb8-hxcj2

pod

a few seconds

running

1/1

hello-76979fdb8-jfg4c

pod

2 hours

running

1/1

hello-76979fdb8-r8b6b

pod

2 hours

running

1/1

Bibliografía extra:

<https://github.com/pablokbs/peladonerd/tree/master/kubernetes/3>

<https://argo-cd.readthedocs.io/en/stable/operator-manual/declarative-setup/>