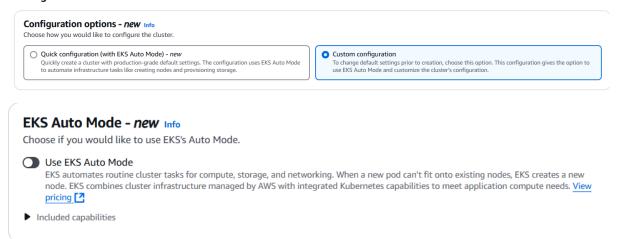
Kubernes inicio

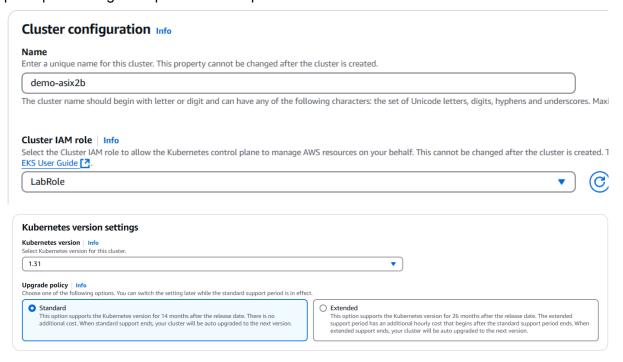
Kubernetes es un lenguaje declarativo (como Terraform), por tanto espera que le digamos cómo queremos que sea la infraestructura que queremos crear. Por tanto, el Control Planer es el elemento que se encarga de comprobar periódicamente que lo que quieres desplegar funciona bien y si no, pues pone en marcha de nuevo los servicios que no estén funcionando según lo esperado en la declaración

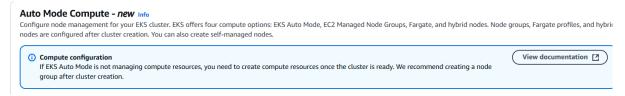
Vamos a crear un Cluster en AWS. Vamos a AWS > EKS ★ > Create Cluster. MUY IMPORTANTE desactivar el EKS Auto Mode, porque si está habilitado nos dará muchos problemas de permisos.

Configure cluster



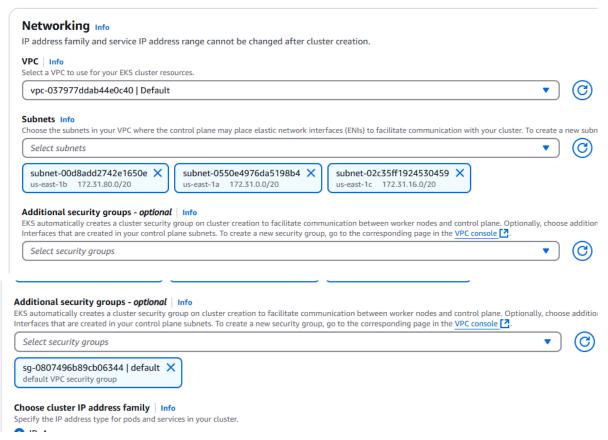
Como hicimos con Form, asignamos Role a LabRole que tiene los permisos más extensos para que no tengamos problemas después.





Aquí por defecto tendremos 6 subnets y nosotros no querremos tener las dos últimas (d, e, f), por tanto las sacamos y nos quedamos con us-east1a, b y c.

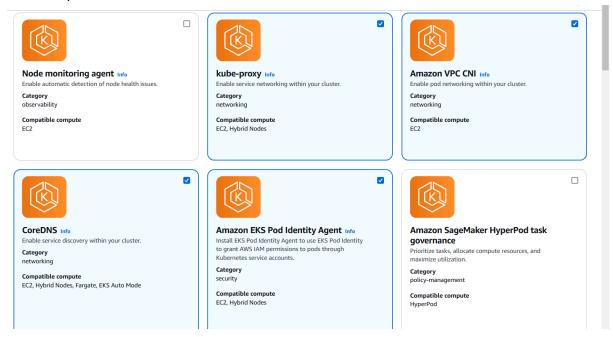
Specify networking



Queremos añadir 5 pods, que son:

kube-proxy
Amazon VPC CNI
CoreDNS
Amazon EKS Pod Identity Agent
Amazon EFS CSI Driver

El resto aparte de éstos, desmárcalo.





santos-pardos (profesantos)

GITHUB

Install and Set Up kubectl on Linux | Kubernetes

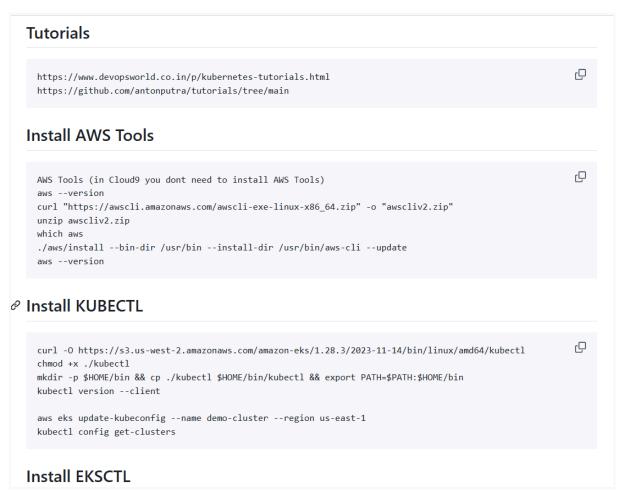
Instalar cliente

curl -LO "https://dl.k8s.io/release/\$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/arm64/kubectl"

Instalar la última versión con este comando.

```
ubuntu@ip-172-31-90-175:~$ ls -l
total 54536
-rw-rw-r-- 1 ubuntu ubuntu 55836824 Feb 28 18:52 kubectl
drwx----- 4 ubuntu ubuntu 4096 Feb 28 18:27 snap
ubuntu@ip-172-31-90-175:~$ chmod a+x kubectl
ubuntu@ip-172-31-90-175:~$ ls -l
total 54536
-rwxrwxr-x 1 ubuntu ubuntu 55836824 Feb 28 18:52 kubectl
drwx----- 4 ubuntu ubuntu 4096 Feb 28 18:27 snap
```

aws eks update-kubeconfig --name demo-cluster --region us-east-1 kubectl config get-clusters



aws eks update-kubeconfig --name demo-asix2b --region us-east-1 kubectl config get-clusters

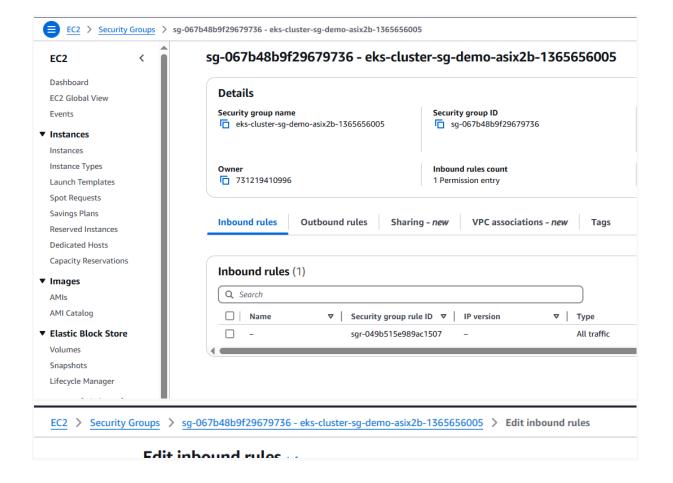
```
ubuntu@ip-172-31-90-175:-$ aws eks update-kubeconfig --name demo-asix2b --region us-east-1
kubectl config get-clusters
Added new context arn:aws:eks:us-east-1:731219410996:cluster/demo-asix2b to /home/ubuntu/.kube/config
NAME
arn:aws:eks:us-east-1:731219410996:cluster/demo-asix2b
ubuntu@ip-172-31-90-175:-$
```

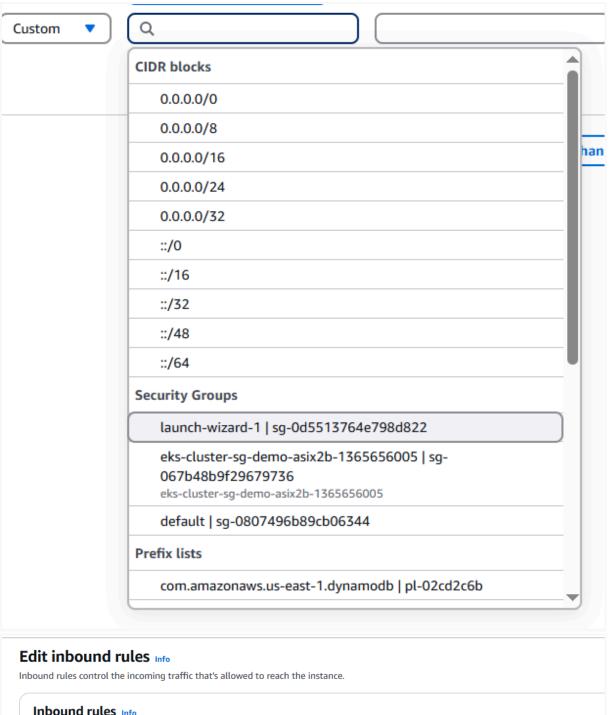
```
ubuntu@ip-172-31-90-175:~$ cat -n /home/ubuntu/.kube/config
        apiVersion: v1
         clusters:
         - cluster
4 certificate-authority-data: LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSURCVENDQWUyZ0F3SUJBZ0lJVU5USTVYczFpU
l3RFFZSktvWklodmNOQVFFTEJRQXdGVEVUTUJFR0ExVUUKQXhNS2EzVmlaWEp1wlhSbGn6QWVGdzB5TlRBeU1qZ3hPRFF4TURkYUZ3MHpOVEF5TWpZeE9
UTJNRGRhTUJVeApFekFSQmdOVkjBTVRDbXQxWW1WeWJtVjBaWE13Z2dFaU1BMEdDU3FHU0liM0RRRUJBUVVBQTRJQkR3QXdnZ0VLCkFvSUJBUUNkei8vR
g50HJyZ3lzajRjSmNES3pTVlVHTmxGSmRHK00rK2NmNVJDU2hUQ3E0YmVrNnRtOWduMVYKNZAYTXJnTFFNWDdqbEV3clNqQjQ0NXE2aENvcXF5WEdubmM
NDNDdógwN1lBdKNKV1FYY1J3YVYwbjNKTlVCdQpSRnZadWJqZjÙrdnUrNTFXRytxTVA1Tmk5Q1pneFFkdWcxMkJWOFBNL2c1eDJjszl4Y2FJWklBMnRWL
NrR1NnCklyNEN0Y2lVaEczTHZQK1FHY1M0eVBOZmVuNHQ1Rm1jSzdkZkl0NUFKMERIRVpPdERzS0RWNGdvQmptMVpqSlYKSW5vOVJnQlJEaHF5L3pjc2U
eXlzdjJXeW1XcUdtQ2F0RWFJbjRvY1BNbm5hYVZZa3h0a1NlN3NVT081REhoOQo5Nml3Vm9CYjNRY3N1TGoybTVRUlo3cElVYkdqQWdNQkFBR2pXVEJYT
E0R0EXVWREd0VCL3dRRUF3SUNWREFQCkJnTlZIUk1CQWY4RUJUQURBUUgvTUIWR0EXVWREZ1FXQkJTZXlxbmVHM1ZabXJBNG4ZQVB2WS9POU5DdWpEQVY
QmdOVkhSRUVEakFNZ2dwcmRXSmxjbTvsZEdWek1BMEdDU3FHU0liMoRRRUJDd1VBQTRJQkFRQXM1OFFkVFdIUgpSRExzR25vWStRMDNqeUIvK29EZVRqT
9aUXVtZjlGQmFOc2NselVlaXUxZTdzb1E5RW1vQTJ3VENwYXcyUwlCCkVHU1hxN3NiN2JFb25sT3hra0pQTW9LdnZXL0cvQUsyN1dTV2FxdnJhUk96VEF
VjUrVjlNVk9RbmIyUGEzNEEKNi9naUx5STdDQnBhK1dlckw3aHFNMVlSYzA4VFEzc2VRUkIwVWt3T1lXblRzYXNNVWxXajNicGV6ZmkwbDR2Ugo0MWdiS
p0VS91NnR4MDV2czAweERoVVRmU0xIRWIwREF0TndkZFJ0NFU4Z1M1cXdRRXRZUTFCSDdHekxLNkdsCkFyVGRaN3ZwYzNSc2ZsR3JaSU54aG5Xd0lDRmZ
.
SXF3RjIyT1BBUGJXdUJVUXR1ckwyMXF1UVB1WTAvdUtDZE8KaUJBczI1MENJMmRhCi0tLS0tRU5EIENFUĺRJRklDQVRFLS0tLS0K
              server: https://2816889824995FF3F866728E9973236F.gr7.us-east-1.eks.amazonaws.com
           name: arn:aws:eks:us-east-1:731219410996:cluster/demo-asix2b
         contexts:
     8
         - context:
              cluster: arn:aws:eks:us-east-1:731219410996:cluster/demo-asix2b
              user: arn:aws:eks:us-east-1:731219410996:cluster/demo-asix2b
    10
           name: arn:aws:eks:us-east-1:731219410996:cluster/demo-asix2b
         current-context: arn:aws:eks:us-east-1:731219410996:cluster/demo-asix2b
         kind: Config
         preferences: {}
         users:
          - name: arn:aws:eks:us-east-1:731219410996:cluster/demo-asix2b
    16
    17
           user:
    18
              exec:
                apiVersion: client.authentication.k8s.io/v1beta1
    19
    20
                args:
                - --region
                  us-east-1
    23
                - eks
    24
                - get-token
```

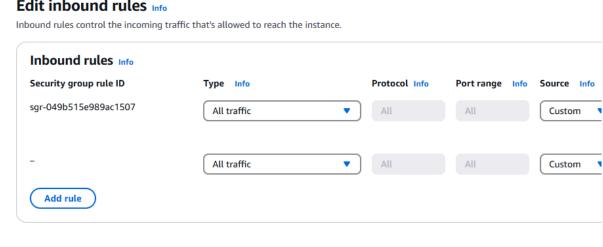
Via externa para conectarme al cluster:

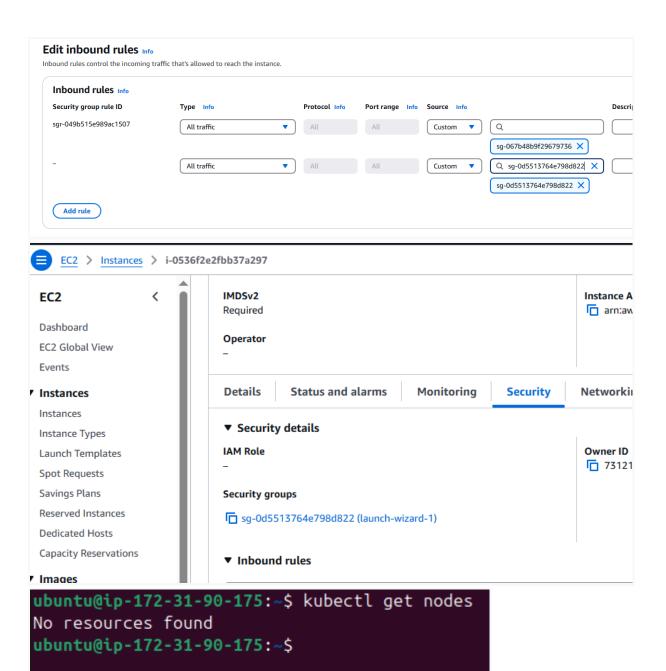
```
ubuntu@ip-172-31-90-175:~$ cat -n /home/ubuntu/.kube/config
        apiVersion: v1
        clusters:
        - cluster
            certificate-authority-data: LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSURCVENDQWUyZ0F3SUJBZ0lJVU5USTVYczFpUF
l3RFFZSktvWklodmNOQVFFTEJRQXdGVEVUTUJFR0ExVUUKQXhNS2EzVmlaWEp1WlhSbGN6QWVGdzB5TlRBeU1qZ3hPRFF4TURKYUZ3MHpOVEF5TWpZeE9E
UTJNRGRhTUJVeApFekFSQmdOVkJBTVRDbXQxWw1WeWJtVjBaWE13Z2dFau1BMEdDU3FHU0liM0RRRUJBUVVBQTRJQkR3QXdnZ0VLCkFvSUJBUUNkei8vRz
g50HJyZ3lzajRj5mNES3pTVlVHTmxGSmRHK00rK2NmNVJDU2hUQ3E0YmVrNnRtOWduMVYKNZAYTXJnTFFNWDdqbEV3clNqQjQ0NXE2aENvcXF5WEdubmMu
NDNDddggwNllBdkNKV1FYY1J3YVYwbjNKTlVCdQpSRnZadWJqZjÙrdnUrNTFXRytxTVA1Tmk5Q1pneFFkdWcxMkJWOFBNL2C1eDJjSzl4Y2FJWklBMnRWL2
NrR1NnCklyNEN0Y2lVaEczTHZQK1FHY1M0eVBOZmVuNHQ1Rm1jSzdkZkl0NUFKMERIRVpPdERzS0RWNGdvQmptMVpqSlYKSW5vOVJnQlJEaHF5L3pjc2Uv
eXlzdjJXeW1XcUdtQ2F0RWFJbjRvY1BNbm5hYVZZa3h0a1NlN3NVT081REhoOQo5Nml3Vm9CYjNRY3N1TGoybTVRUlo3cElVYkdqQwdNQkFBR2pXVEJYTU
E0R0EXVWREd0VCL3dRRUF3SUNwREF0CkJnTlZIUk1C0WY4RUJUQURBUUgvTUIwR0EXVWREZ1FXQkJTZXlxbmVHM1ZabXJBNG4zQVB2WS9POU5DdWpEQVYK
QmdOVkhSRUVEakFNZ2dwcmRXSmxjbTvsZEdWek1BMEdDU3FHU0liM0RRRUJDd1VBQTRJQkFRQXM1OFFkVFdIUgpSRExzR25vWStRMDNqeUIVK29EZVRqT©
9aUXVtZjlGQmFOc2NselVlaXUxZTdzb1E5RW1vQTJ3VENWYXcyUWlCCkVHU1hxN3NìN2ĴFb2ŜsT3hra0pQTW9LdnZXL0cvQUsyN1dTV2FxdnJhUk96VEFş
VjUrVjlŇVk9RbmIyUGEzNEEKNi9naUx5STdDQnBhK1dlckw3aHFNMVlSYzA4VFEzc2VRUkIwVwt3T1lXblRzYXNNVWxXajNicGV6ZmkwbDR2Ugo0MWdis
p0VS9iNnR4MDV2czAweERoVVRmU0xIRWIwREFOTndkZFJ0NFU4Z1M1cXdRRXRZUTFCSDdHekxLNkdsCkFyVGRaN3ZwYzNSc2ZsR3JaSU54aG5Xd0lDrmZt
.
SXF3RjIyT1BBUGJXdUJVUXR1ckwyMXF1UVB1WTAvdutDZE8KaUJBczI1MENJMmRhCi0tLS0tRU5EIENFUlRJRklDQVRFLS0tLS0K
            server: https://2816889824995FF3F866728E9973236F.gr7.us-east-1.eks.amazonaws.com
           name: arn:aws:eks:us-east-1:731219410996:cluster/demo-asix2b
```

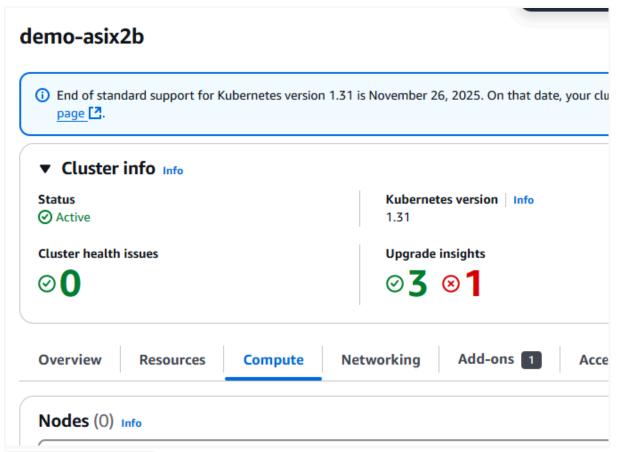
https://2816889824995FF3F866728E9973236F.gr7.us-east-1.eks.amazonaws.com



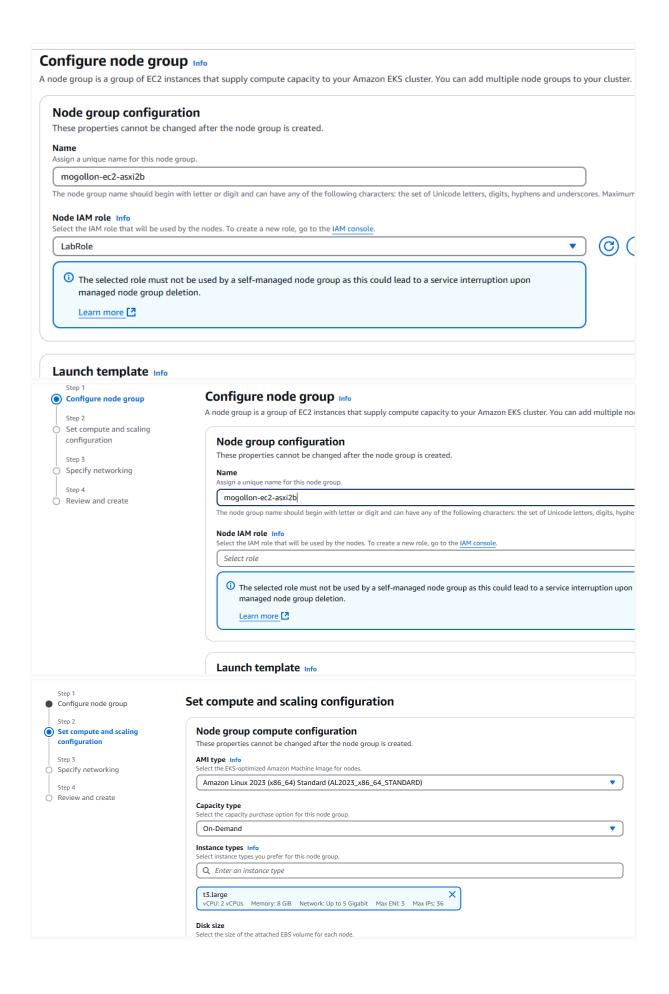


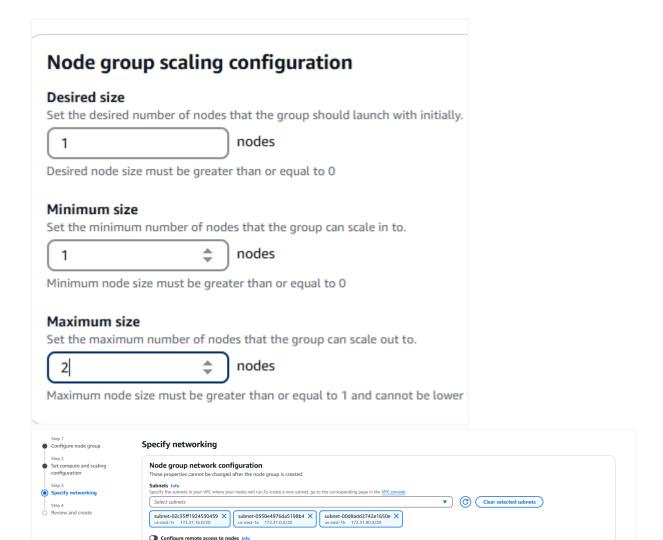






Compute no tengo nada Queremos máquina virtuales donde están





next

CREATEEE

Ya tenemos una ec2 donde podemos desplegar los contenedores.

Comprobaciones

https://github.com/santos-pardos/K8s-Eks.git git clone

```
ubuntu@ip-172-31-90-175:~$ kubectl get nodes
                                       ROLES
                               STATUS
                                                AGE
ip-172-31-27-119.ec2.internal
                               Ready
                                                3m36s
                                                       v1.31.5-eks-5d632ec
                                       <none>
ubuntu@ip-172-31-90-175:~$ git clone https://github.com/santos-pardos/K8s-Eks.git
Cloning into 'K8s-Eks'...
remote: Enumerating objects: 1288, done.
remote: Counting objects: 100% (930/930), done.
remote: Compressing objects: 100% (548/548), done.
remote: Total 1288 (delta 370), reused 872 (delta 346), pack-reused 358 (from 1)
Receiving objects: 100% (1288/1288), 12.16 MiB | 30.46 MiB/s, done.
Resolving deltas: 100% (471/471), done.
ubuntu@ip-172-31-90-175:~$
ubuntu@ip-172-31-90-175:~$ cd K8s-Eks/
ubuntu@ip-172-31-90-175:~/K8s-Eks$ cd HelloWorld/
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ ls -l
total 16
-rw-rw-r-- 1 ubuntu ubuntu 511 Feb 28 19:22 README.md
-rw-rw-r-- 1 ubuntu ubuntu 561 Feb 28 19:22 helloworld-deployment.yaml
-rw-rw-r-- 1 ubuntu ubuntu 568 Feb 28 19:22 helloworld-svc-https.yaml
-rw-rw-r-- 1 ubuntu ubuntu 186 Feb 28 19:22 helloworld-svc.yaml
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ cat -n helloworld-deployment.yaml
    2 apiVersion: apps/v1
    3 kind: Deployment
    4 metadata:
    5
        name: hello-kubernetes
    6
      spec:
        replicas: 3
    8
         selector:
    9
           matchLabels:
             app: hello-kubernetes
   10
   11
         template:
   12
           metadata:
   13
   14
               app: hello-kubernetes
   15
           spec:
   16
             containers:
   17
             - name: hello-kubernetes
   18
               image: santospardos/sanvalero:hello-k8s
   19
               ports:
   20
               - containerPort: 8080
   21
               resources:
   22
                 requests:
                   memory: "64Mi"
   23
                   cpu: "80m"
   24
   25
                 limits:
```

Que hago para despegar o poenr en marcha? kubectl apply -f helloworld-deployment.yaml

26 27 memory: "128Mi"

cpu: "250m"

```
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ #kubectl apply -f helloworld-deployment.yam'
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl get pods
No resources found in default namespace.
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
```

No hay contenedores.

```
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl get pods --all-namespaces
NAMESPACE
              NAME
                                                     READY
                                                             STATUS
                                                                       RESTARTS
                                                                                  AGE
kube-system
             aws-node-xzlck
                                                     2/2
                                                             Running
                                                                                  8m54s
                                                                       0
kube-system coredns-789f8477df-8799p
                                                     1/1
                                                             Running
                                                                       0
                                                                                  35m
kube-system coredns-789f8477df-wdqgn
                                                     1/1
                                                             Running
                                                                       0
                                                                                  35m
kube-system ebs-csi-controller-84fd6498d4-bp2qk
                                                     6/6
                                                             Running
                                                                       0
                                                                                  35m
kube-system
             ebs-csi-controller-84fd6498d4-fqhq9
                                                     6/6
                                                             Running
                                                                       0
                                                                                  35m
kube-system
             ebs-csi-node-846vt
                                                     3/3
                                                             Running
                                                                       0
                                                                                  8m54s
kube-system
              eks-pod-identity-agent-m7tsp
                                                     1/1
                                                             Running
                                                                       0
                                                                                  8m54s
kube-system
              kube-proxy-mxqxc
                                                     1/1
                                                             Running
                                                                       0
                                                                                  8m54s
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
```

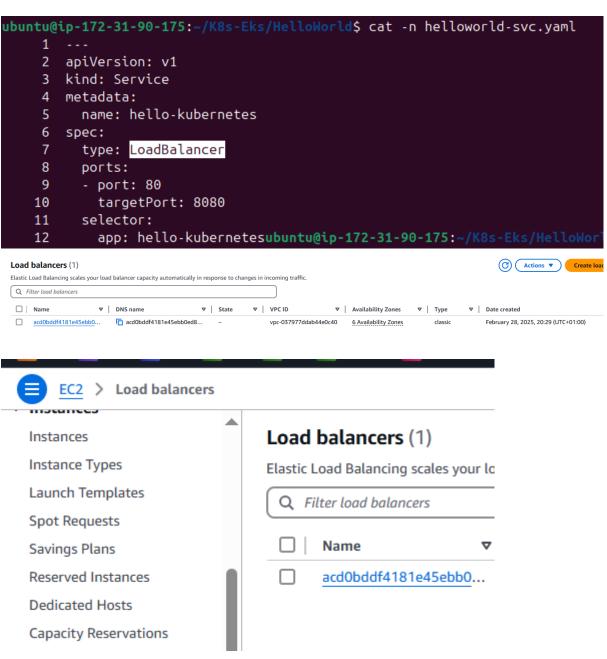
Estos son los plugins que hemos seleccionado antes.

```
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl apply -f helloworld-deployment.yaml
deployment.apps/hello-kubernetes created
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl get pods
NAME
                                    READY
                                            STATUS
                                                       RESTARTS
                                                                  AGE
hello-kubernetes-654f5d8885-9xwmh
                                    1/1
                                            Running
                                                       0
                                                                  8s
hello-kubernetes-654f5d8885-mmfp8
                                            Running
                                    1/1
                                                       0
                                                                  85
hello-kubernetes-654f5d8885-vhm4t
                                    1/1
                                            Running
                                                       0
                                                                  8s
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
```

```
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl get all
                                         READY
                                                  STATUS
                                                            RESTARTS
                                                                        AGE
pod/hello-kubernetes-654f5d8885-9xwmh
                                         1/1
                                                  Running
                                                            0
                                                                        27s
pod/hello-kubernetes-654f5d8885-mmfp8
                                         1/1
                                                  Running
                                                            0
                                                                        27s
                                         1/1
pod/hello-kubernetes-654f5d8885-vhm4t
                                                  Running
                                                            0
                                                                        27s
NAME
                                  CLUSTER-IP
                                                EXTERNAL-IP
                                                                         AGE
                      TYPE
                                                              PORT(S)
service/kubernetes
                      ClusterIP
                                  10.100.0.1
                                                <none>
                                                              443/TCP
                                                                         41m
NAME
                                    READY
                                            UP-TO-DATE
                                                          AVAILABLE
                                                                       AGE
deployment.apps/hello-kubernetes
                                    3/3
                                             3
                                                          3
                                                                       27s
                                                DESIRED
                                                          CURRENT
                                                                     READY
                                                                             AGE
                                                                             27s
replicaset.apps/hello-kubernetes-654f5d8885
                                                3
                                                          3
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ S
```

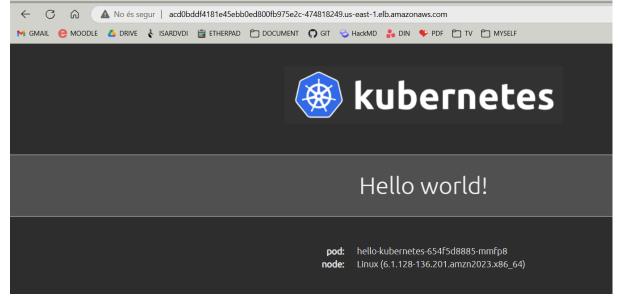
```
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ ls -l
total 16
-rw-rw-r-- 1 ubuntu ubuntu 511 Feb 28 19:22 README.md
-rw-rw-r-- 1 ubuntu ubuntu 561 Feb 28 19:22 helloworld-deployment.yaml
-rw-rw-r-- 1 ubuntu ubuntu 568 Feb 28 19:22 helloworld-svc-https.yaml
-rw-rw-r-- 1 ubuntu ubuntu 186 Feb 28 19:22 helloworld-svc.yaml
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
```

ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld\$ kubectl apply -f helloworld-svc.yaml
service/hello-kubernetes created
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld\$



O tambien

```
orld$ kubectl get all
NAME
                                        READY
                                                STATUS
                                                           RESTARTS
                                                                      AGE
                                                                      5m39s
pod/hello-kubernetes-654f5d8885-9xwmh
                                        1/1
                                                Running
pod/hello-kubernetes-654f5d8885-mmfp8
                                        1/1
                                                Running
                                                           0
                                                                      5m39s
pod/hello-kubernetes-654f5d8885-vhm4t
                                                                      5m39s
                                        1/1
                                                Running
                                                           0
NAME
                                          CLUSTER-IP
                                                           EXTERNAL-IP
                                     PORT(S)
                                                    AGE
service/hello-kubernetes
                                                           acd0bddf4181e45ebb0ed800fb975e2c-474
                           LoadBalancer
                                         10.100.231.37
818249.us-east-1.elb.amazonaws.com
                                     80:31344/TCP 3m36s
                           ClusterIP
service/kubernetes
                                          10.100.0.1
                                                           <none>
                                     443/TCP
                                                    46m
                                           UP-TO-DATE
NAME
                                   READY
                                                         AVAILABLE
                                                                     AGE
deployment.apps/hello-kubernetes
                                                                     5m39s
                                   3/3
                                              DESIRED
                                                         CURRENT
                                                                   READY
                                                                           AGE
replicaset.apps/hello-kubernetes-654f5d8885
                                                                   3
                                                                           5m39s
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
```



Objetivo cambiar esto y que aparezca el pupito

Debemos eliminar los dos kubernetas que hemos desplegado antes por no tener problemas.

```
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl delete -f helloworld-svc.yaml
service "hello-kubernetes" deleted
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl delete -f helloworld-deployment.yaml
deployment.apps "hello-kubernetes" deleted
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl get all
NAME
                     TYPE
                                 CLUSTER-IP
                                              EXTERNAL-IP
                                                            PORT(S)
                                                                      AGE
                    ClusterIP
service/kubernetes
                                 10.100.0.1
                                              <none>
                                                            443/TCP
                                                                      54m
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
```

```
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl get deployments
No resources found in default namespace.
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl create deployment podinfo --image=stefan
prodan/podinfo
deployment.apps/podinfo created
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
```

Editamos el yaml de deployment para cambiar la imagen de los containers por la de stefanprodan o el containerPort abierto a 9898.

```
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ cat -n helloworld-deployment.yaml
     2 apiVersion: apps/v1
     3 kind: Deployment
     4 metadata:
          name: hello-kubernetes
     5
     6 spec:
         replicas: 3
     8
         selector:
            matchLabels:
     9
    10
              app: hello-kubernetes
    11
          template:
    12
            metadata:
    13
              labels:
    14
                app: hello-kubernetes
    15
            spec:
    16
              containers:
    17
              - name: hello-kubernetes
    18
                image: stefanprodan/podinfo
    19
                ports:
    20
                 - containerPort: 9898
    21
                resources:
    22
                  requests:
    23
                    memory: "64Mi"
                    cpu: "80m"
    24
    25
                  limits:
                    memory: "128Mi"
    26
                    cpu: "250m"
    27
```

Lo mismo con el yaml del servicio LoadBalancer.

```
GNU nano 7.2
                                                          helloworld-svc.yaml
apiVersion: v1
kind: Service
metadata:
  name: hello-kubernetes
spec:
  type: LoadBalancer
  ports:
  - port: 80
     targetPort: 9898
  selector:
     app: hello-kubernetes
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ nano helloworld-deployment.yaml
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl apply -f helloworld-deployment.yaml
deployment.apps/hello-kubernetes created
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ nano helloworld-svc.yaml
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl apply -f helloworld-svc.yaml
service/hello-kubernetes created
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl get all
NAME
                                     READY
                                            STATUS
                                                              RESTARTS
                                                                         AGE
pod/hello-kubernetes-d98f94888-d9l6z
                                            ImagePullBackOff
                                     0/1
                                                              0
                                                                         72s
pod/hello-kubernetes-d98f94888-qbfxr
                                     0/1
                                             ImagePullBackOff
                                                                         72s
                                     0/1
pod/hello-kubernetes-d98f94888-rjpxf
                                            ImagePullBackOff
                                                              0
                                                                         72s
pod/podinfo-849bfb5c8d-6grjj
                                     1/1
                                                              0
                                                                         3m53s
                                            Running
NAME
                                                       EXTERNAL-IP
                         TYPE
                                       CLUSTER-IP
                                    PORT(S)
                                                  AGE
service/hello-kubernetes
                         LoadBalancer
                                       10.100.23.187
                                                       ad5508ce8339a4879803479f130f68fd-177
1309034.us-east-1.elb.amazonaws.com
                                    80:32554/TCP
                                                  28s
service/kubernetes
                         ClusterIP
                                        10.100.0.1
                                                       <none>
                                    443/TCP
                                                  62m
                                 READY
                                        UP-TO-DATE
                                                     AVAILABLE
                                                                AGE
deployment.apps/hello-kubernetes
                                 0/3
                                                                72s
                                                                3m53s
deployment.apps/podinfo
                                 1/1
                                                     1
NAME
                                          DESIRED
                                                    CURRENT
                                                             READY
                                                                     AGE
replicaset.apps/hello-kubernetes-d98f94888
                                                             0
                                                                     72s
replicaset.apps/podinfo-849bfb5c8d
                                                                     3m53s
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$
```

```
oWorld$ kubectl delete -f helloworld-deployment.yaml
Jbuntu@ip-172-31-90-175:~
deployment.apps "hello-kubernetes" deleted
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl apply -f helloworld-svc.yaml
service/hello-kubernetes created
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl apply -f helloworld-deployment.yaml
deployment.apps/hello-kubernetes created
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl get all
                                         READY
                                                 STATUS
                                                           RESTARTS
                                                                      AGE
pod/hello-kubernetes-74594654bb-lsxt4
                                         1/1
                                                 Running
                                                           0
                                                                      105
pod/hello-kubernetes-74594654bb-p7lnt
                                         1/1
                                                 Running
                                                                      10s
                                                           0
pod/hello-kubernetes-74594654bb-stpgj
                                         1/1
                                                 Running
                                                           0
                                                                      10s
                                                           EXTERNAL-IP
NAME
                           TYPE
                                           CLUSTER-IP
                                       PORT(S)
                                                      AGE
service/hello-kubernetes
                           LoadBalancer
                                           10.100.236.74
                                                           aeb15947d37384636a0af39e589882d3-181
7738793.us-east-1.elb.amazonaws.com
                                       80:31624/TCP 20s
service/kubernetes
                           ClusterIP
                                           10.100.0.1
                                                           <none>
                                                      74m
                                       443/TCP
NAME
                                   READY
                                            UP-TO-DATE
                                                         AVAILABLE
                                                                     AGE
deployment.apps/hello-kubernetes
                                                                      10s
                                                         CURRENT
                                                                   READY
                                               DESIRED
                                                                            AGE
replicaset.apps/hello-kubernetes-74594654bb
                                                                   3
                                                                            10s
ubuntu@ip-172-31-90-175:~/K8s-Eks/HelloWorld$ kubectl get all
NAME
                                                 STATUS
                                                           RESTARTS
                                                                      AGE
                                         READY
pod/hello-kubernetes-74594654bb-lsxt4
                                                 Running
                                                                      465
                                                           0
pod/hello-kubernetes-74594654bb-p7lnt
                                         1/1
                                                 Running
                                                           0
                                                                      46s
pod/hello-kubernetes-74594654bb-stpqj
                                                 Running
                                                                      46s
                                         1/1
NAME
                                           CLUSTER-IP
                                                           EXTERNAL-IP
                           TYPE
```

