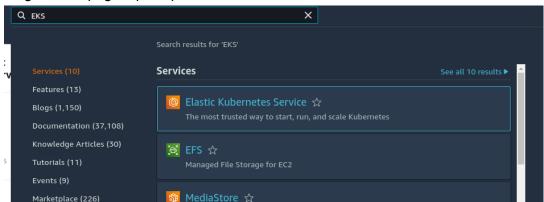
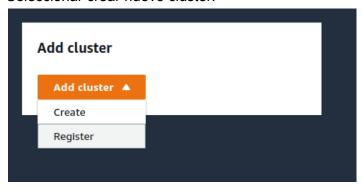
Creación y configuración de un Cluster EKS

Crear Cluster EKS

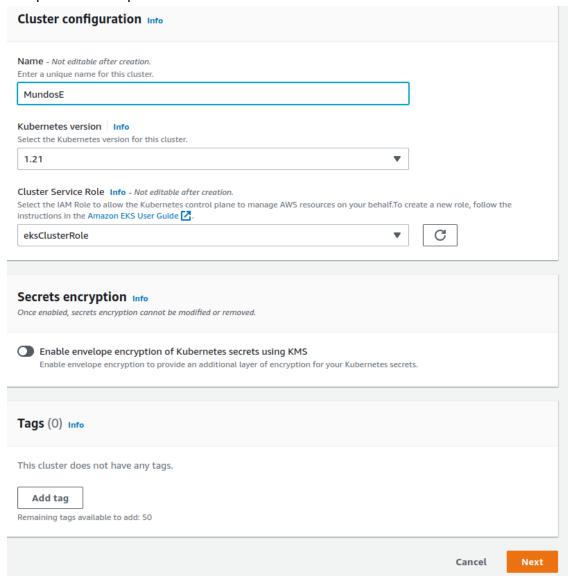
1. Dirigirse a la página principal de EKS



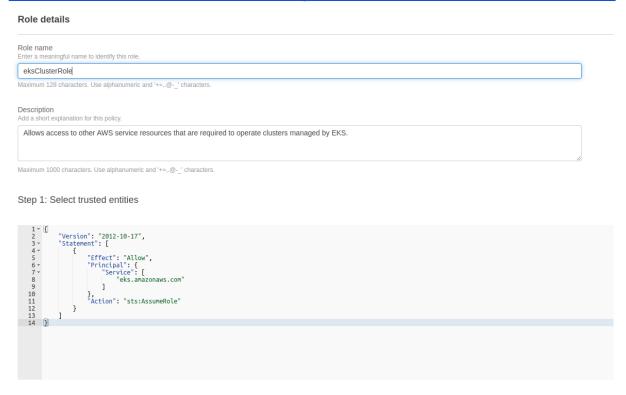
2. Seleccionar crear nuevo cluster:



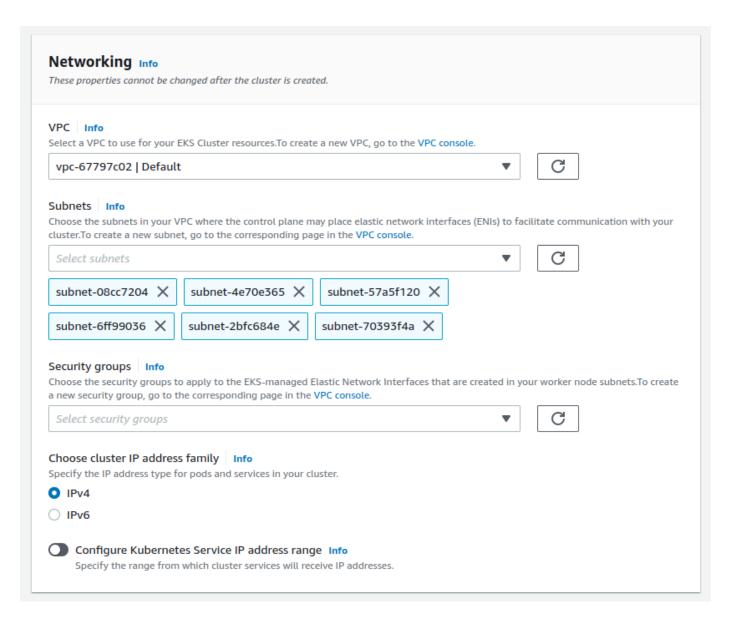
3. Completar los campos del formulario de creación:



4. En caso de no disponer de Cluster Service Role, crearlo siguiendo este Link: https://docs.aws.amazon.com/eks/latest/userguide/service_IAM_role.html#create-service-role



5. En caso de querer crear un cluster con especificaciones diferentes a las por defecto con respecto a la red, seleccionar los valores que se necesiten. Si no, dejar los valores por defecto:



Cluster endpoint access Info Configure access to the Kubernetes API server endpoint. Public The cluster endpoint is accessible from outside of your VPC. Worker node traffic will leave your VPC to connect to the endpoint. Public and private The cluster endpoint is accessible from outside of your VPC. Worker node traffic to the endpoint will stay within your VPC. Private

The cluster endpoint is only accessible through your VPC. Worker node traffic to the endpoint will stay within your VPC.

Advanced Settings

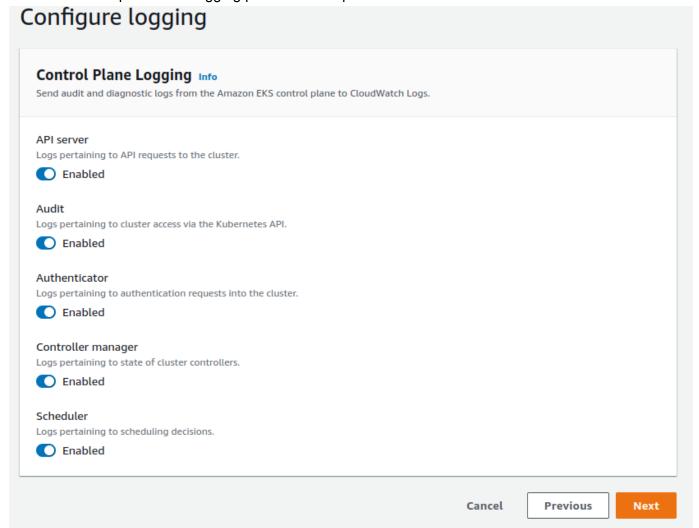
Networking add-ons Configure add-ons that provide advanced networking functionalities on the cluster. Amazon VPC CNI Info Enable pod networking within your cluster. Select the version for this add-on. ₩ v1.10.1-eksbuild.1 (i) This add-on will use the IAM role of the node where it runs. You can change this add-on to use IAM Roles for Service Accounts after cluster creation. CoreDNS Info Enable service discovery within your cluster. Version Select the version for this add-on. v1.8.4-eksbuild.1 kube-proxy Info Enable service networking within your cluster. Select the version for this add-on. v1.21.2-eksbuild.2

Cancel

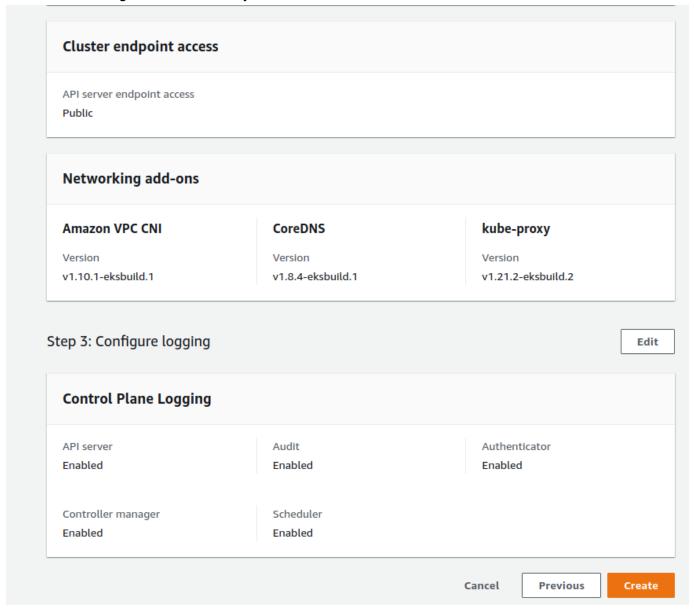
Previous

Next

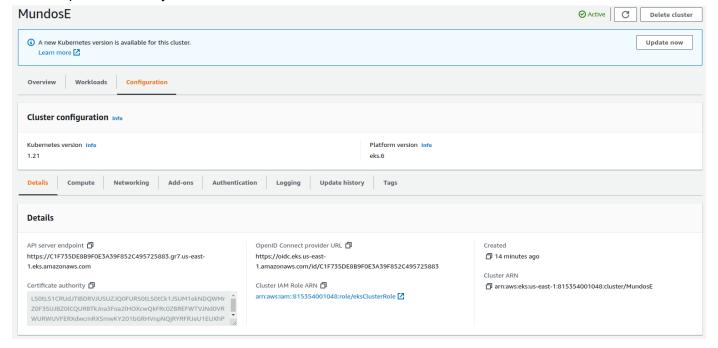
6. Seleccionar las opciones de logging para el control plane:



7. Revisar si la configuración está bien y crear el cluster en caso afirmativo:



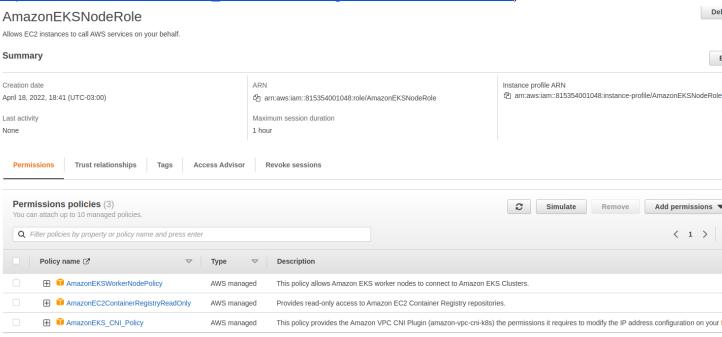
8. Revisar que todo se haya creado de forma correcta:



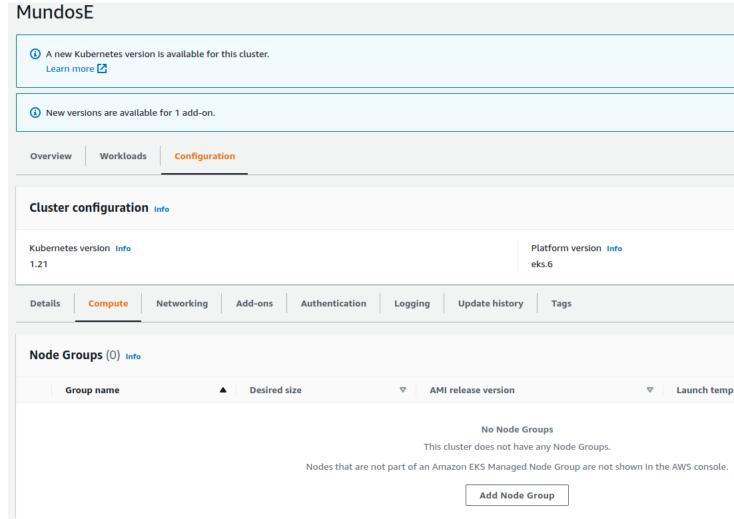
Creación de Node Group

1. Crear un IAM Role para los worker nodes

(https://docs.aws.amazon.com/es_es/eks/latest/userguide/create-node-role.html):



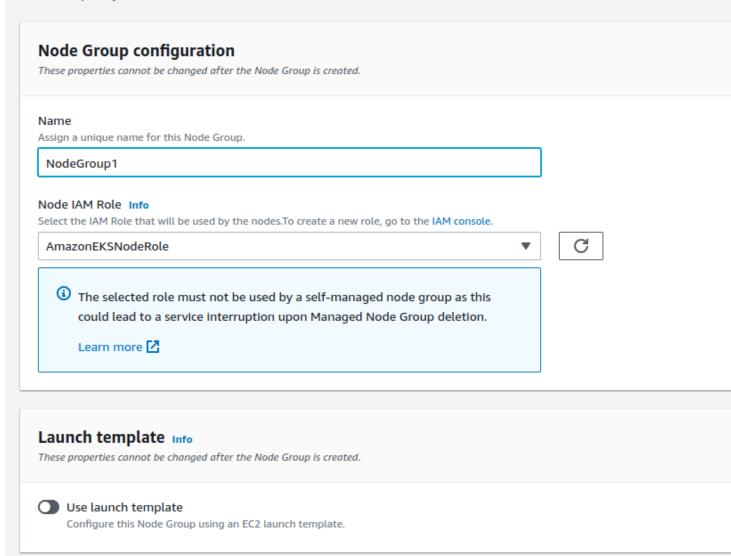
2. Seleccionar la pestaña "Compute" y presionar en "Add Node Group"



3. Completar el formulario de creación de Node Group, seleccionando el role creado anteriormente:

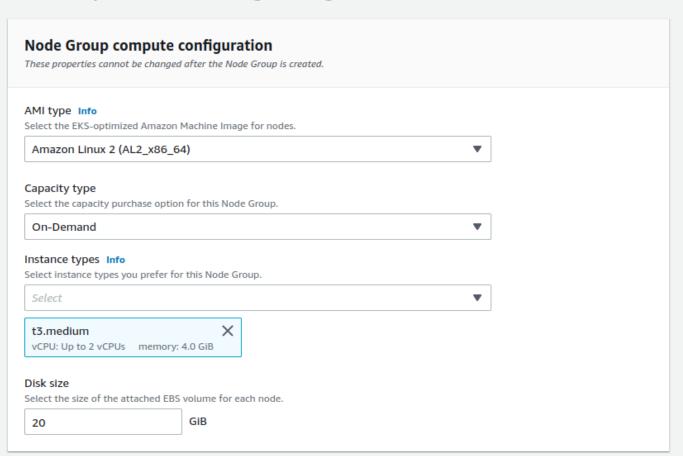
Configure Node Group Info

A Node Group is a group of EC2 instances that supply compute capacity to your Amazon EKS cluster. You can add multiple Node Groups to your cluster.

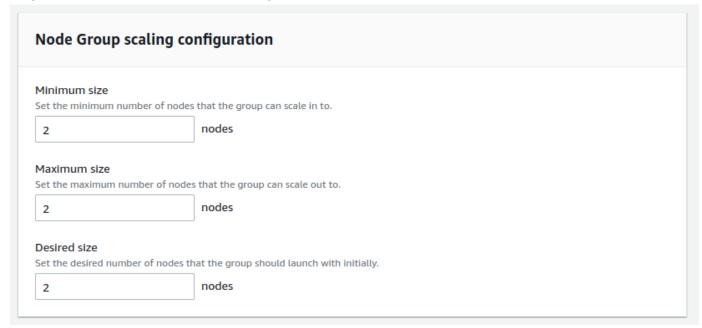


4. Seleccionar la capacidad de cómputo:

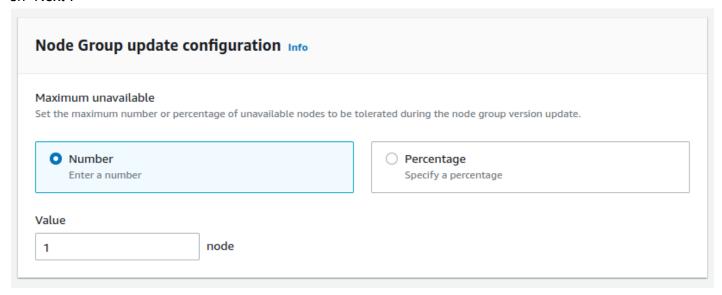
Set compute and scaling configuration



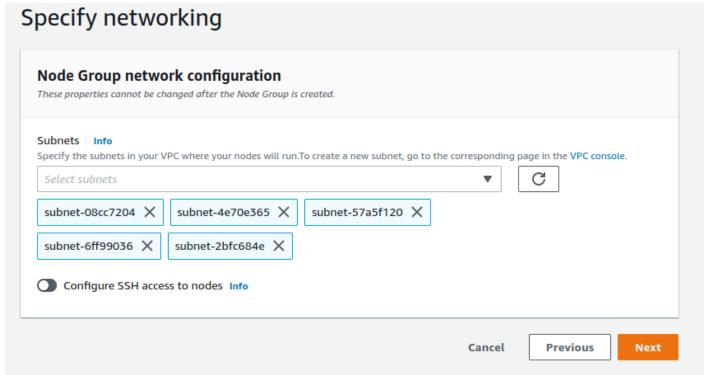
5. Elegir el comportamiento de "autoscaling":



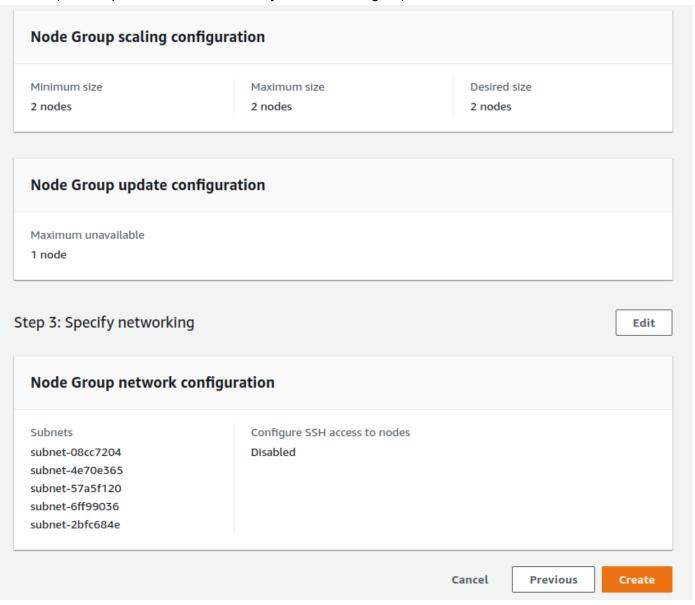
6. Optar por alguna combinación de opciones para cuando se necesite actualizar los node groups y presionar en "Next":



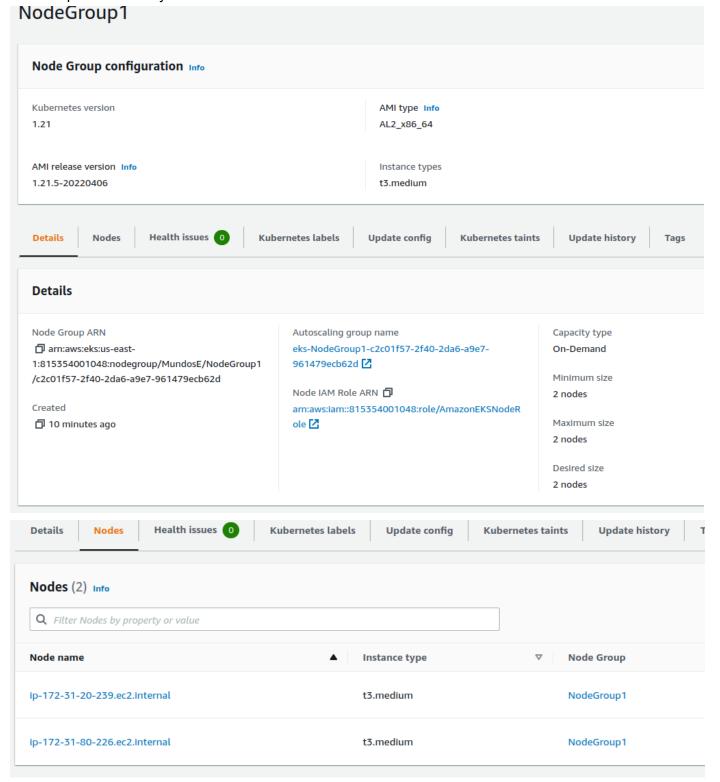
7. Seleccionar las opciones de red y presionar "Next":



8. Revisar que las opciones esten correctas y crear el node group:



9. Revisar que el nodo haya sido creado de manera correcta:



Configuración de Kubectl

- 1. Configurar las credenciales de AWS, ya sea por medio de los profiles o con variables de entorno.
- 2. Correr el siguiente comando para crea el ~/.kube/config file
 - # aws eks update-kubeconfig --name NOMBRE_DEL_CLUSTER
- 3. Probar si se puede utilizar de manera correcta el comando kubectl
 - # kubectl get nodes