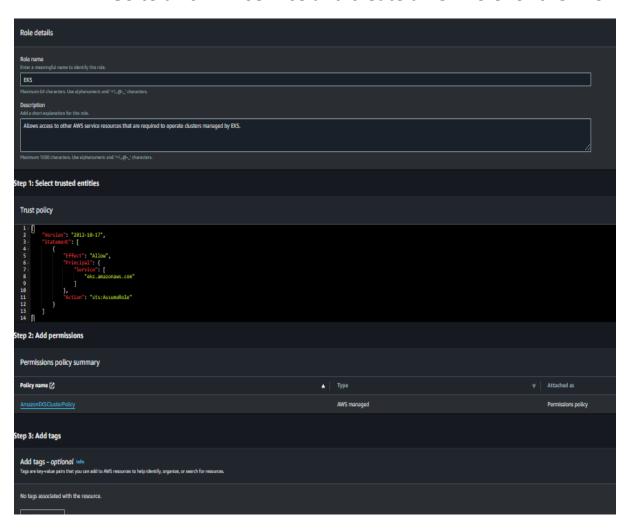
# **CDEC - B24**

# Name – Vaibhav Navneet Jorvekar

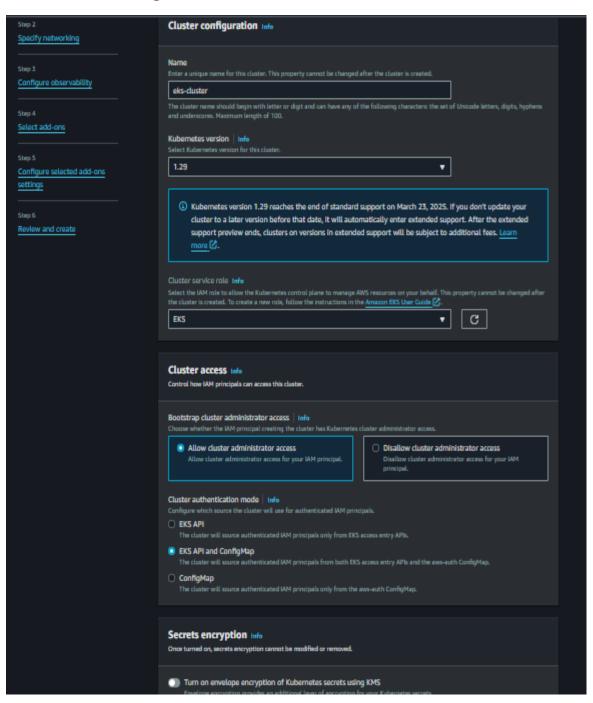
# Creating an Amazon EKS (Elastic Kubernetes Service) cluster

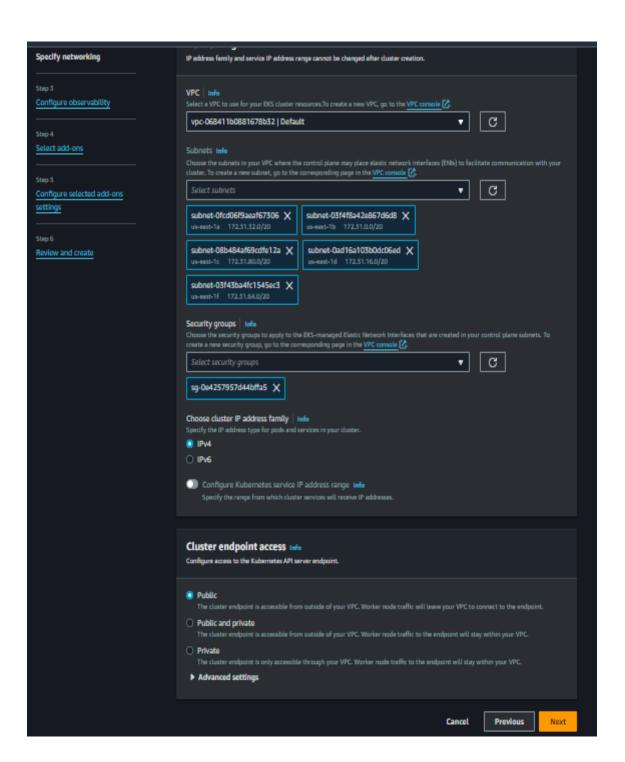
- 1. Set up IAM roles for EKS.
  - Go to aws IAM service and create a new role for the EKS

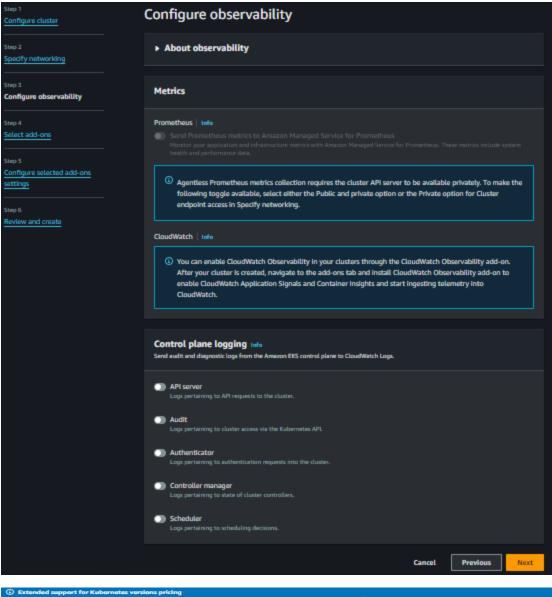


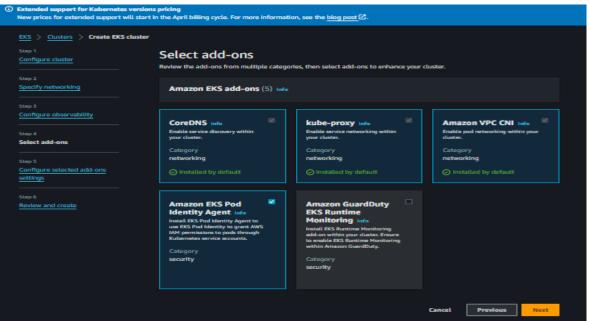
#### 2. Create an EKS cluster.

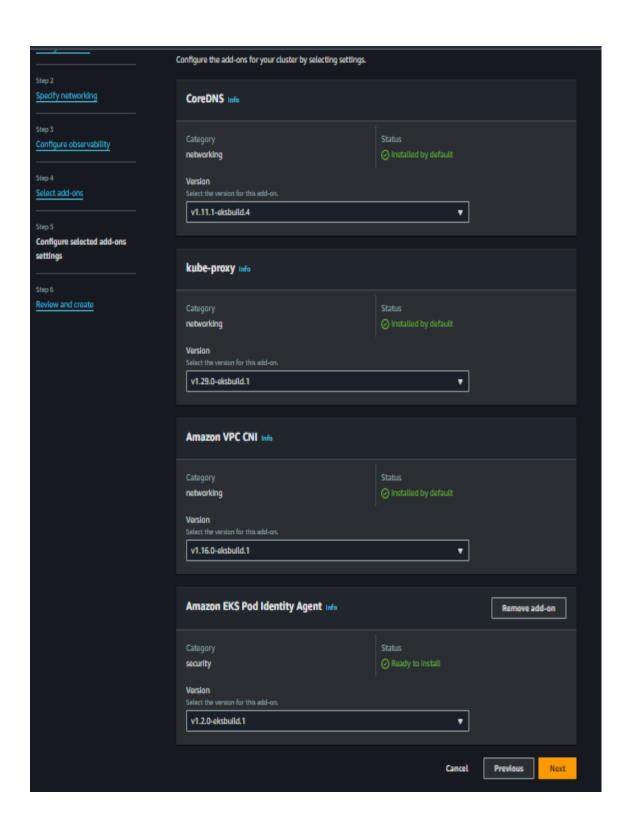
- Open the Amazon EKS console.
- Click on "Create Cluster" and choose the "AWS management Console" method.

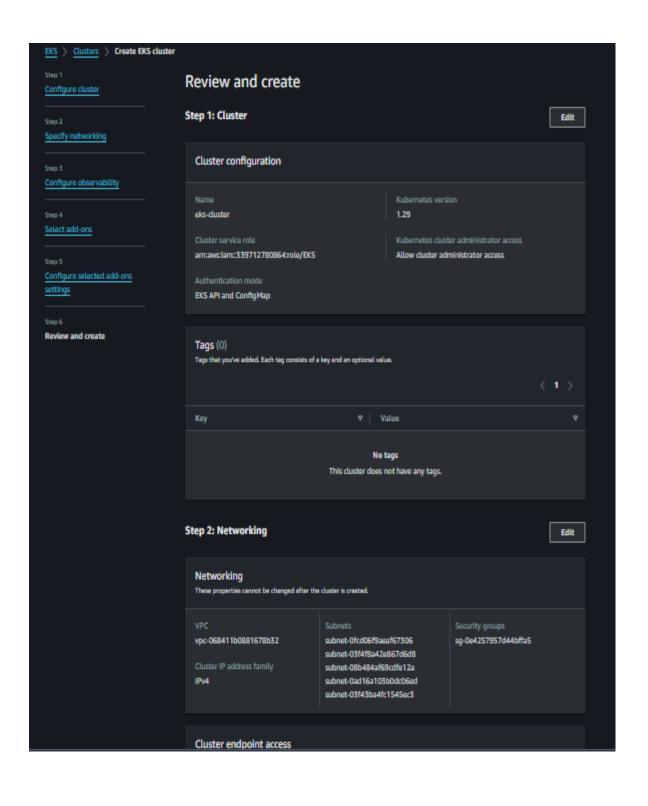




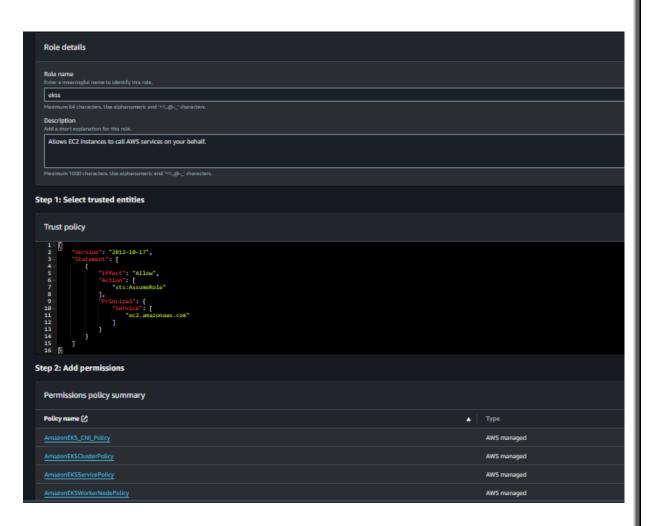








3. Set up IAM roles for EC2.

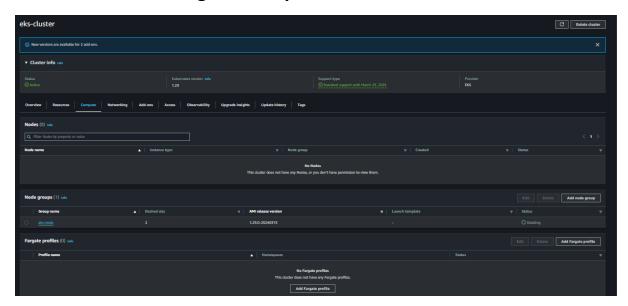


- 4. Configure the AWS Cloudshell.
  - Open aws cloudshell & configure aws.

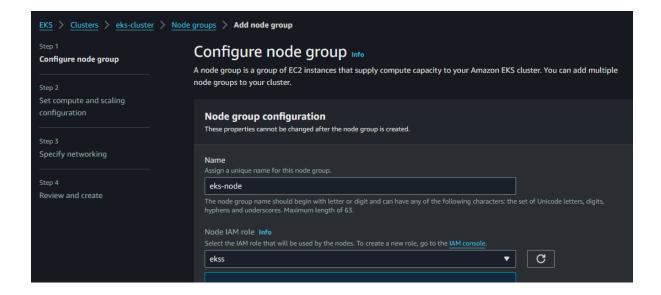


### 5. Add worker nodes.

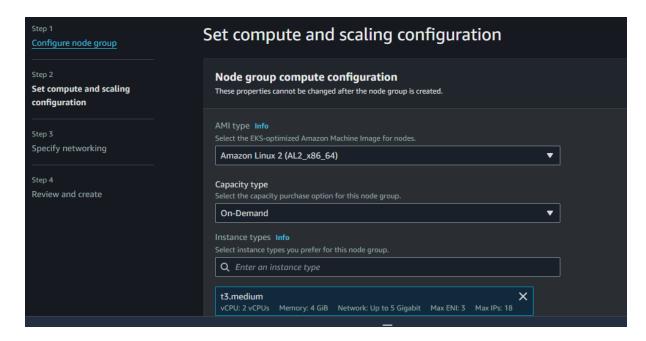
- In the AWS EKS console select your cluster.
- In cluster go to compute service.



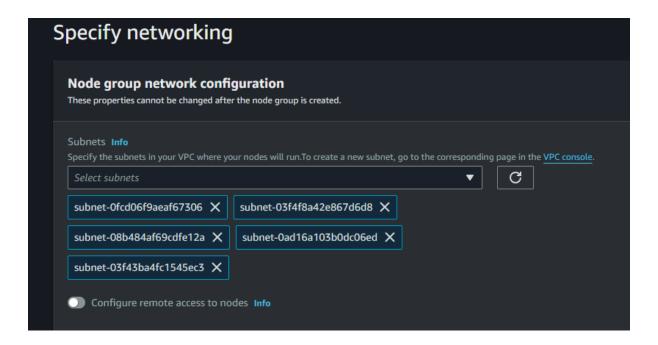
- Click on "Ad Node Group".
- Select the "Name" & "IAM ROLE".



- Click on next.
- Select the values for the node configuration a below.



- Click on next.
- Select the subnets.



Click on "next" and then "Create"

## 6. Verify the cluster.

Open cloudshell and execute the following commands.
 # aws eks update-kubeconfig --region <region> --name
 <cluster-name>
 # kubectl cluster-info

[root@ip-10-130-66-138 ~]# aws eks update-kubeconfig --region us-east-1 --name eks-cluster
An error occurred (AccessDeniedException) when calling the DescribeCluster operation: User: arn:aws:iam::339712780864:user/vaibhav is not authorized to perform: eks:DescribeCluster on resource: arn
caus:eks:us-east-1:3399712780864:cluster/eks-cluster
[root@ip-10-130-66-138 ~]# aws eks update-kubeconfig --region us-east-1b --name eks-cluster
[root@ip-10-130-66-138 ~]# kubectl cluster-info
[waternets control plane is running at https://dfp9fe0Ac602E400F8004226F2ASEEA7.gr].us-east-1 eks.amazonaws.com
[coreONS is running at https://dfp9fe0Ac602E400F8004226F2ASEEA7.gr].us-east-1 eks.amazonaws.com