EKS

Create role









Select type of trusted entity









Allows AWS services to perform actions on your behalf. Learn more

Choose a use case

Common use cases

EC2

Allows EC2 instances to call AWS services on your behalf.

Lambda

Allows Lambda functions to call AWS services on your behalf.

Or select a service to view its use cases

API Gateway	CloudWatch Events	EMR	IoT SiteWise	RDS
AWS Backup	CodeBuild	EMR Containers	IoT Things Graph	Redshift
AWS Chatbot	CodeDeploy	ElastiCache	KMS	Rekognition
AWS Marketplace	CodeGuru	Elastic Beanstalk	Kinesis	RoboMaker
AWS Support	CodeStar Notifications	Elastic Container Registry	Lake Formation	S3

Health Organizational View OpsWorks DynamoDB Transfer Certificate Manager EC2 Honeycode Personalize Trusted Advisor VPC EC2 - Fleet IAM Access Analyzer **Purchase Orders** CloudFormation QLDB EC2 Auto Scaling Incident Manager WorkLink CloudHSM EC2 Image Builder Inspector RAM WorkMail CloudTrail EKS CloudWatch Alarms CloudWatch Application

Select your use case

Insights

manage clusters on your behalf.

EKS - Cluste Allows access o other AWS service resources that are required to operate clusters managed by EKS.

EKS - Fargate pod

Allows access to other AWS service resources that are required to run Amazon EKS pods on AWS Fargate.

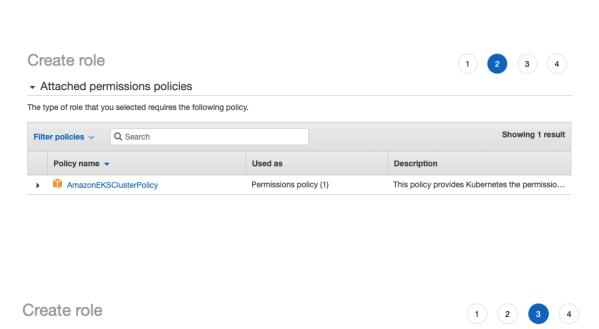
EKS - Fargate profile

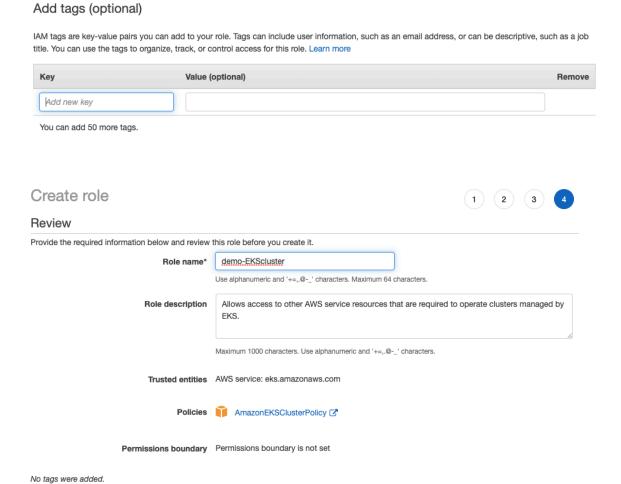
Allows EKS to run Fargate tasks.

EKS - Nodegroup

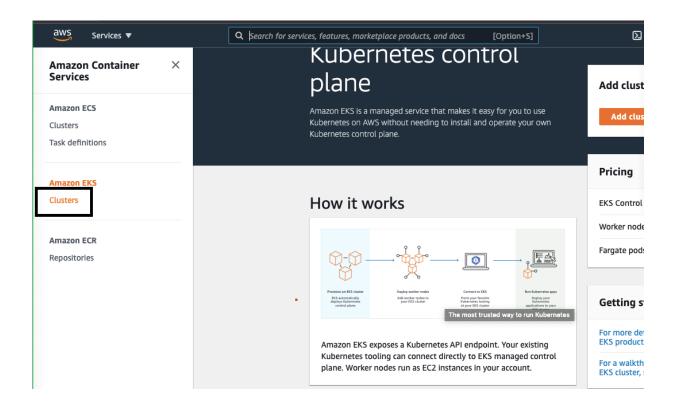
Allow EKS to manage nodegroups on your behalf.

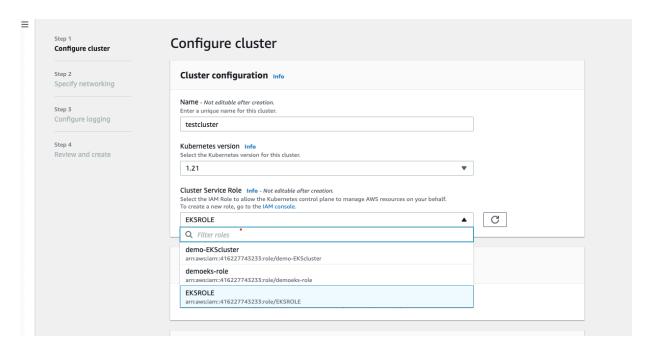
Next: Permissions * Required

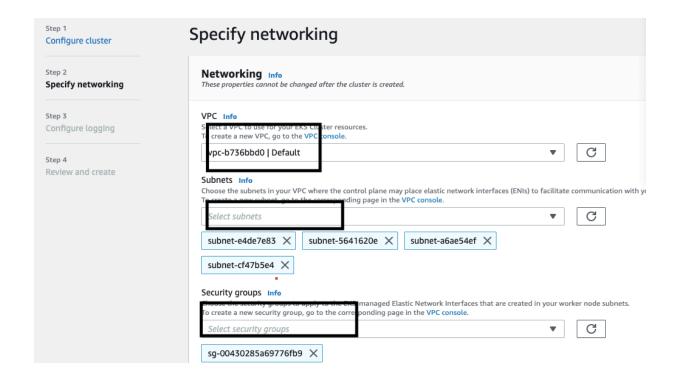


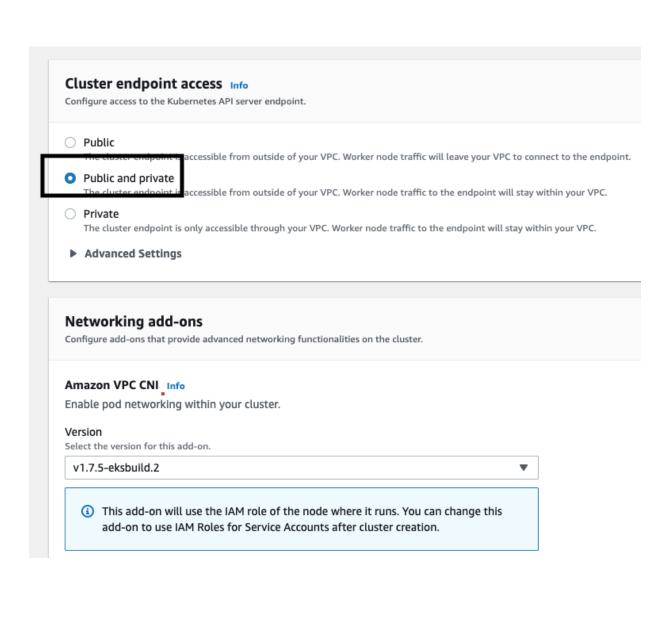


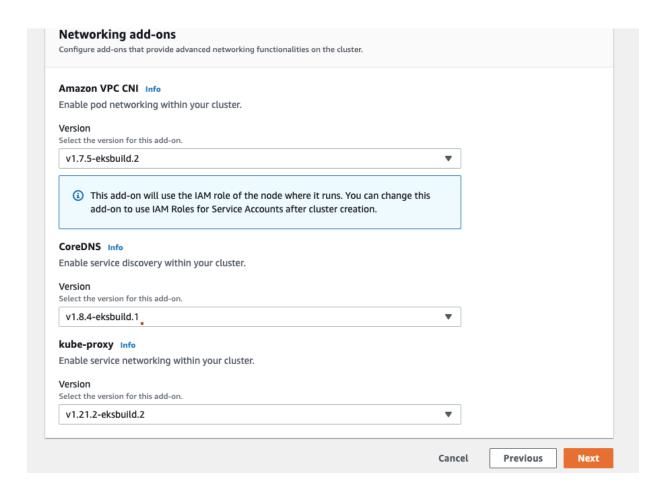


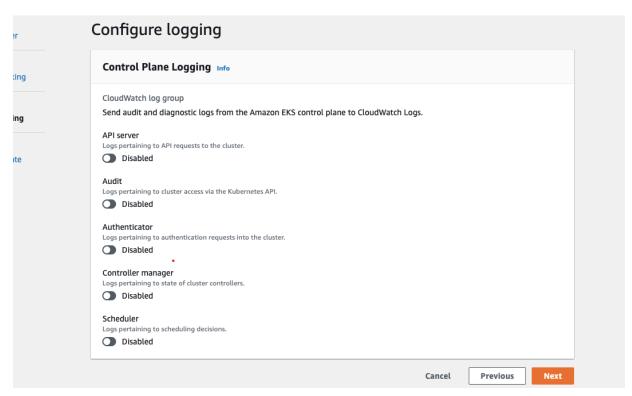












NOte: 15Min

Install AWS CLI

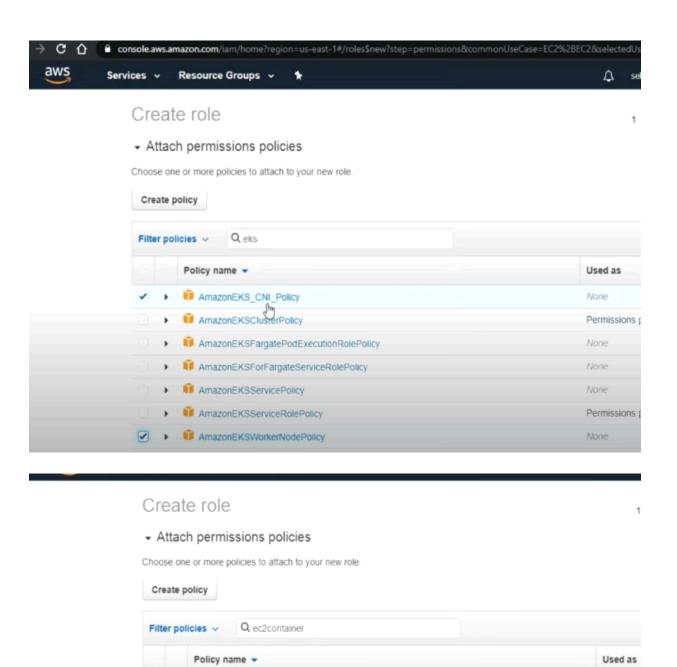
https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2-windows.html

install AWS IAM authenticator

https://docs.aws.amazon.com/eks/latest/userguide/install-aws-iam-authenticator.html

aws iam list-users
aws sts get-caller-identity
kubectl version --short --client
kubectl get svc
aws eks —region us-west-2 update-kubeconfig —name democluster
export KUBECONFIG=~/.kube/config

```
rayalajagadeesh@Rayalas—MacBook—Air ~ % aws eks --region us-west-2 update-kubeconfig --name democluster
Added new context arm:aws:eks:us-west-2:416227743233:cluster/democluster to /Users/rayalajagadeesh/.kube/confi
rayalajagadeesh@Rayalas-MacBook-Air ~ % export KUBECONFIG=~/.kube/config
rayalajagadeesh@Rayalas-MacBook-Air ~ % kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP kubernetes ClusterIP 10.100.0.1 <none>
                                                   PORT(S)
                                                               AGE
                                                                7m43s
                                                     443/TCP
rayalajagadeesh@Rayalas-MacBook-Air ~ % kubectl get nodes
No resources found
rayalajagadeesh@Rayalas-MacBook-Air ~ % kubectl get ns
NAME
                  STATUS
                           AGE
default
                  Active
                           8m28s
kube-node-lease
                           8m31s
                  Active
kube-public
                  Active
                           8m31s
kube-system
                  Active
```



AmazonEC2ContainerRegistryFullAccess

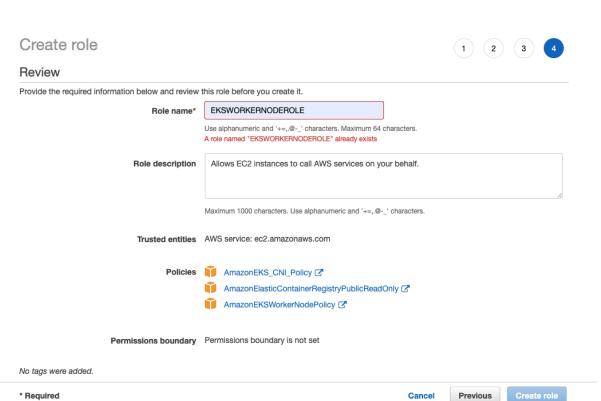
AmazonEC2ContainerRegistryPowerUser

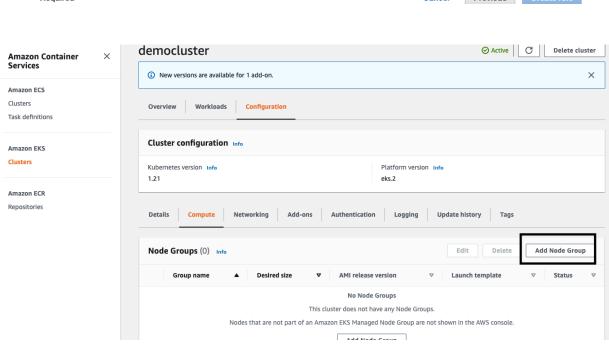
AmazonEC2ContainerRegistryReadOnly

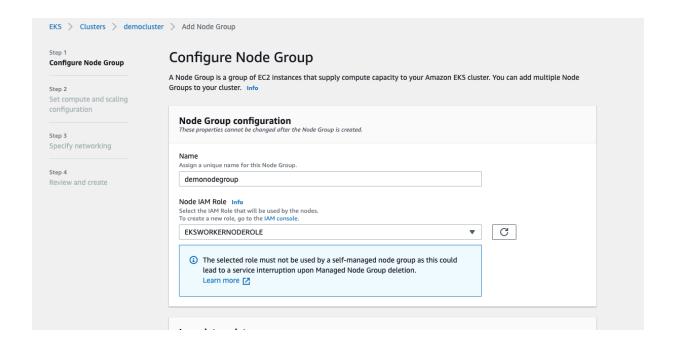
None

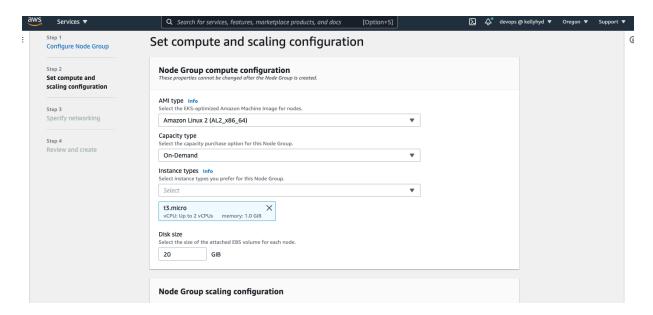
None

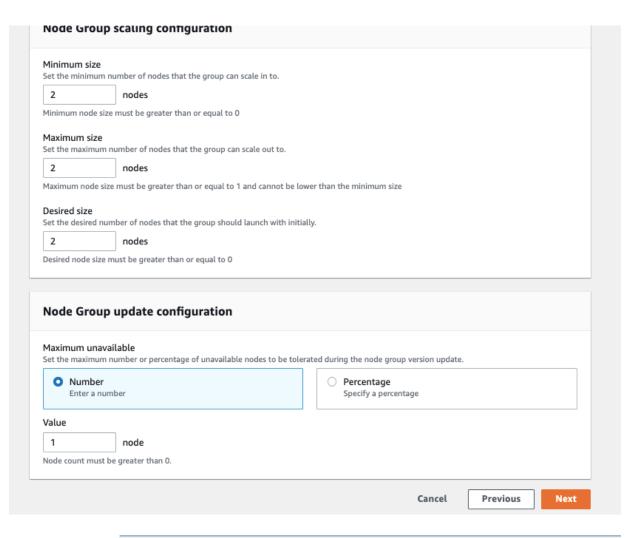
None

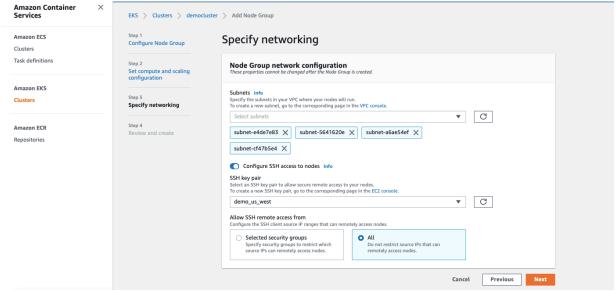


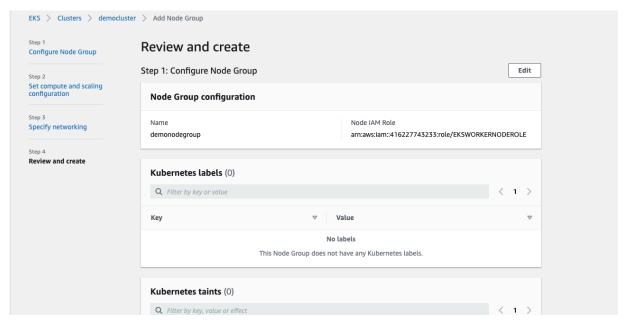


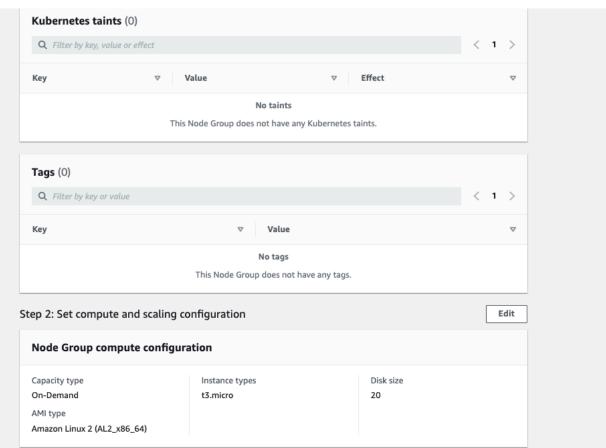


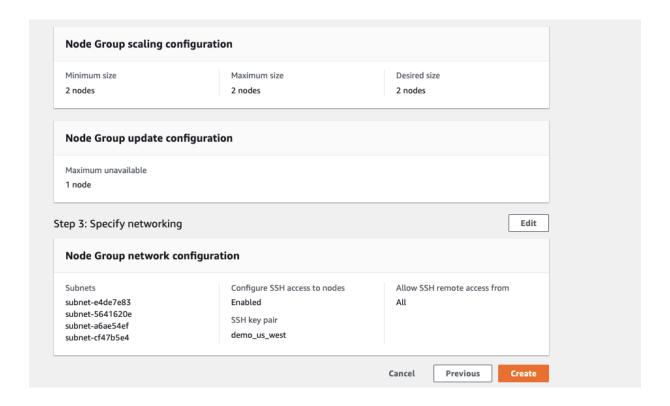












```
rayalajagadeesh@Rayalas—MacBook—Air ~ % kubectl get nodes --watch
NAME
                                               STATUS
                                                         ROLES
                                                                  AGE
                                                                        VERSION
ip-172-31-63-192.us-west-2.compute.internal
                                                         <none>
                                                                  70s
                                                                        v1.21.2-eks-55daa9d
                                               Ready
ip-172-31-9-121.us-west-2.compute.internal
                                               Ready
                                                         <none>
                                                                  77s
                                                                        v1.21.2-eks-55daa9d
```

```
rayalajagadeesh@Rayalas-MacBook-Air kubernetes-knote % kubectl apply -f mongo.yaml
deployment.apps/mongo created
service/mongo created
rayalajagadeesh@Rayalas-MacBook-Air kubernetes-knote % kubectl apply -f knote.yaml
deployment.apps/knote created
service/knote created
rayalajagadeesh@Rayalas-MacBook-Air kubernetes-knote % kubectl get svc
NAME
             TYPE
                            CLUSTER-IP
                                             EXTERNAL-IP
        PORT(S)
             LoadBalancer
                                             a6d0649f35e9e4a789d0cd7ddd905201-486091927.us-west-2.elb.amazonaw
knote
                            10.100.11.93
       80:30000/TCP
s.com
                      39s
kubernetes ClusterIP
                            10.100.0.1
        443/TCP
                       42m
mongo
            ClusterIP
                            10.100.232.184
                                             <none>
        27017/TCP
                       68s
rayalajagadeesh@Rayalas-MacBook-Air kubernetes-knote % kubectl get pods -o wide
NAME
                                          RESTARTS
                         READY STATUS
                                                     AGE
                             READINESS GATES
           NOMINATED NODE
knote-db5699ccb-nsctr
                         1/1
                                 Running
                                                      85s
                                                             172.31.53.59
                                                                            ip-172-31-63-192.us-west-2.compute
.internal <none>
                             <none>
mongo-58ff9c9df4-8rvlg
                                 Running
                                           0
                                                      113s
                                                             172.31.4.166
                                                                            ip-172-31-9-121.us-west-2.compute.
                         1/1
internal
           <none>
                             <none>
ravalajagadeesh@Ravalas-MacBook-Air kubernetes-knote %
```

rayalajagadeesh@Rayalas—MacBook—Air kubernetes—knote % nslookup a6d0649f35e9e4a789d0cd7ddd905201—486091927.us—west—2.elb.amazonaws.com

Server: 2405:201:c037:e00d::c0a8:1d01 Address: 2405:201:c037:e00d::c0a8:1d01#53

Non-authoritative answer:

Name: a6d0649f35e9e4a789d0cd7ddd905201-486091927.us-west-2.elb.amazonaws.com

Address: 44.236.253.106

Name: a6d0649f35e9e4a789d0cd7ddd905201-486091927.us-west-2.elb.amazonaws.com

Address: 52.39.168.28

rayalajagadeesh@Rayalas—MacBook—Air kubernetes—knote % curl a6d0649f35e9e4a789d0cd7ddd905201—486091927.us—west —2.elb.amazonaws.com

-2.elb.amazonaws.com
<html><head><title></title><link rel="stylesheet" href="tachyons.min.css"/></head><body class="ph3 pt0 pb4 mw7
center sans-serif"><h1 class="f2 mb0">knote</h1>A sin
ple note-taking app.<form action="/note" method="POST" enctype="multipart/form-data">class="mv3"><label class="f6 b db mb2" for="image">Upload an image</label><input class="f6 link dim br1 ba
b--black-20 ph3 pv2 mb2 dib black bg-white pointer" type="file" name="image"/><input class="f6 link dim br1 ba
bu1 ph3 pv2 mb2 dib black bg-white pointer ml2" type="submit" value="Upload" name="upload"/>li class="
mv3"><label class="f6 b db mb2" for="description">Write your content here</label><textarea class="f4 db border
-box hover-black w-100 measure ba b--black-20 pa2 br2 mb2" rows="5" name="description"></textarea><input class
="f6 link dim br1 ba bw1 ph3 pv2 mb2 dib black bg-white pointer" type="submit" value="Publish" name="publish"/
></form>You don't have any notes yet.</body></html></pr>
rayalajagadeesh@Rayalas-MacBook-Air kubernetes-knote %