1. Get IAM OIDC provider.

```
cluster_name=eksdemo5

oidc_id=$(aws eks describe-cluster --name $cluster_name --query

"cluster.identity.oidc.issuer" --output text | cut -d '/' -f 5)

echo $oidc_id
```

2. Determine whether an IAM OIDC provider with your cluster's issuer ID is already in your account.

```
aws iam list-open-id-connect-providers | grep $oidc id | cut -d "/" -f4
```

If output is returned, then you already have an IAM OIDC provider for your cluster and you can skip the next step. If no output is returned, then you must create an IAM OIDC provider for your cluster.

Create an IAM OIDC identity provider for your cluster with the following command

```
cluster_name=eksdemo5
eksctl utils associate-iam-oidc-provider --cluster $cluster_name --approve
```

Configure IAM Policy

```
aws iam create-policy --policy-name AmazonEKSClus1 --policy-document
file://AmazonEKSClusterAutoscalerPolicy.json
```

```
POLICY_ARN=$(aws iam list-policies --query

'Policies[?PolicyName==`AmazonEKSClus1`].Arn' --output text)
```

```
#Declare following value in your ec2 instance
ROLE_NAME=AmazonEKSClus1
cluster_name=eksdemo5
SA NAME=cluster-autoscaler
```

```
eksctl create iamserviceaccount --name $SA_NAME --cluster

$cluster_name --attach-policy-arn=$POLICY_ARN --role-name

$ROLE_NAME --namespace kube-system --override-existing-

serviceaccounts --approve
```

```
ROLE_ARN=$(aws iam list-roles --query
'Roles[?RoleName==`AmazonEKSClus`].Arn' --output text)
kubectl get sa cluster-autoscaler -n kube-system
```

modify the yaml file, add your cluster info

kubectl apply -f https://raw.githubusercontent.com/kubernetes/autoscaler/master/cluster-autoscaler/cloudprovider/aws/examples/cluster-autoscaler-autodiscover.yaml

kubectl create -f cluster-autoscaler.yaml

#Don't delete now, after finish of the session delete

```
Deleting asg

echo "Deleting IAM Role and Policies"

# Delete IAM Role and Policies

aws iam detach-role-policy --role-name=${ROLE_NAME} --policy-

arn=${POLICY_ARN}

aws iam delete-role --role-name=${ROLE_NAME}

aws iam delete-policy --policy-arn=${POLICY_ARN}

# Delete IAM Role and Service Account

eksctl delete iamserviceaccount \

--cluster=${CLUSTER_NAME} \

--name=cluster-autoscaler \

--namespace=kube-system

kubectl delete -f cluster-autoscaler.yaml
```