# **Upgrading Amazon EKS from 1.30 to** 1.31

# **Pre-requisites**

Before starting the upgrade, check the current Kubernetes versions:

#### **Get EKS Cluster List**

eksctl get cluster

# **Get Installed Add-ons**

```
eksctl get addons --cluster=<cluster-name> --profile=<profile-name> --region=<region-name>

Example output:

NAME VERSION STATUS ISSUES IAMROLE UPDATE AVAILABLE
aws-ebs-csi-driver v1.40.0-eksbuild.1 ACTIVE 0

coredns v1.11.1-eksbuild.8 ACTIVE 0 v1.11.4-eksbuild.2,v1.11.4-eksbuild.1
eks-pod-identity-agent v1.3.4-eksbuild.1 ACTIVE 0 v1.3.5-eksbuild.2
kube-proxy v1.30.6-eksbuild.3 ACTIVE 0 v1.30.9-eksbuild.3,v1.30.7-eksbuild.2
vpc-cni v1.19.0-eksbuild.1 ACTIVE 0 v1.19.3-eksbuild.1,v1.19.2-eksbuild.5
```

# **Upgrade EKS Add-ons**

#### **Check Kubernetes Versions**

#### **Master Node Version:**

kubectl version

#### **Worker Node Version:**

kubectl get nodes -o wide

# Steps to Upgrade EKS from 1.30 to 1.31

# 1. Upgrade the Master Node

```
eksctl upgrade cluster --name=<cluster-name> --profile <aws-profile> \
--region <region-name> --version 1.31 --approve -v 4
```

# 2. Upgrade Master Node Components

#### **Upgrade Cluster Autoscaler**

#### Check if Cluster Autoscaler is installed:

```
kubectl get deployment -n kube-system | grep cluster-autoscaler
```

If installed, update the image:

```
kubectl -n kube-system set image deployment.apps/cluster-autoscaler \
cluster-autoscaler=k8s.gcr.io/autoscaling/cluster-autoscaler:v1.31.1
```

Reference: Kubernetes Autoscaler

# 3. Upgrade Worker Nodes / Node Group

#### **Get Node Group Information:**

```
eksctl get nodegroup --cluster=<cluster-name> --profile=profile-name> --region=<region-name>
```

### **Upgrade Node Group:**

```
eksctl upgrade nodegroup --name=<node-group-name> \
--cluster=<cluster-name> --kubernetes-version=1.31
```

# 4. Verify the Upgrade

#### **Check Upgraded Master Node Version:**

kubectl version

#### **Check Upgraded Worker Nodes:**

```
kubectl get nodes -o wide
```

This ensures that both the control plane and worker nodes have been successfully upgraded to Kubernetes 1.31.