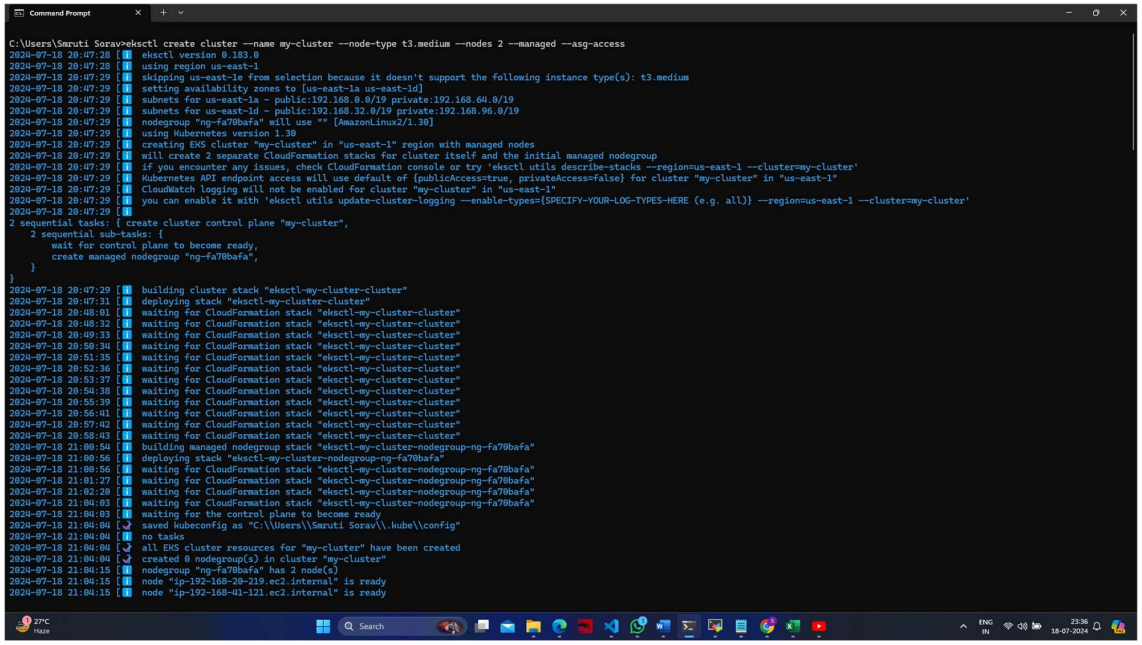
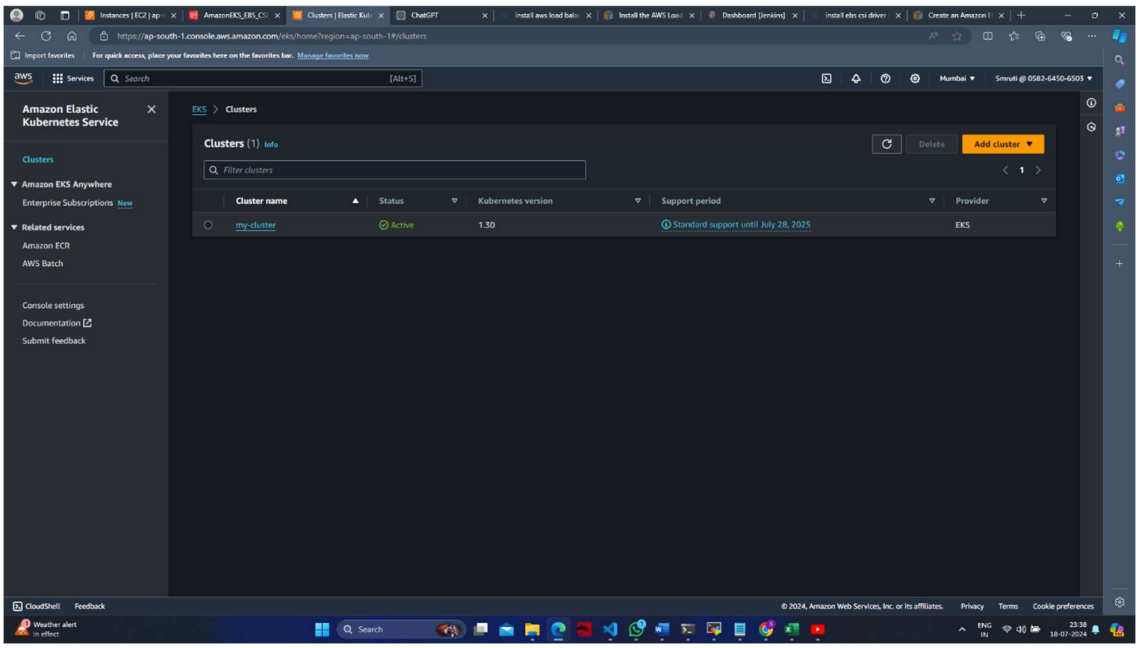
Project-2

Q. Create a pipeline and deploy it using docker, Jenkins, github, argocd and kubernetes.

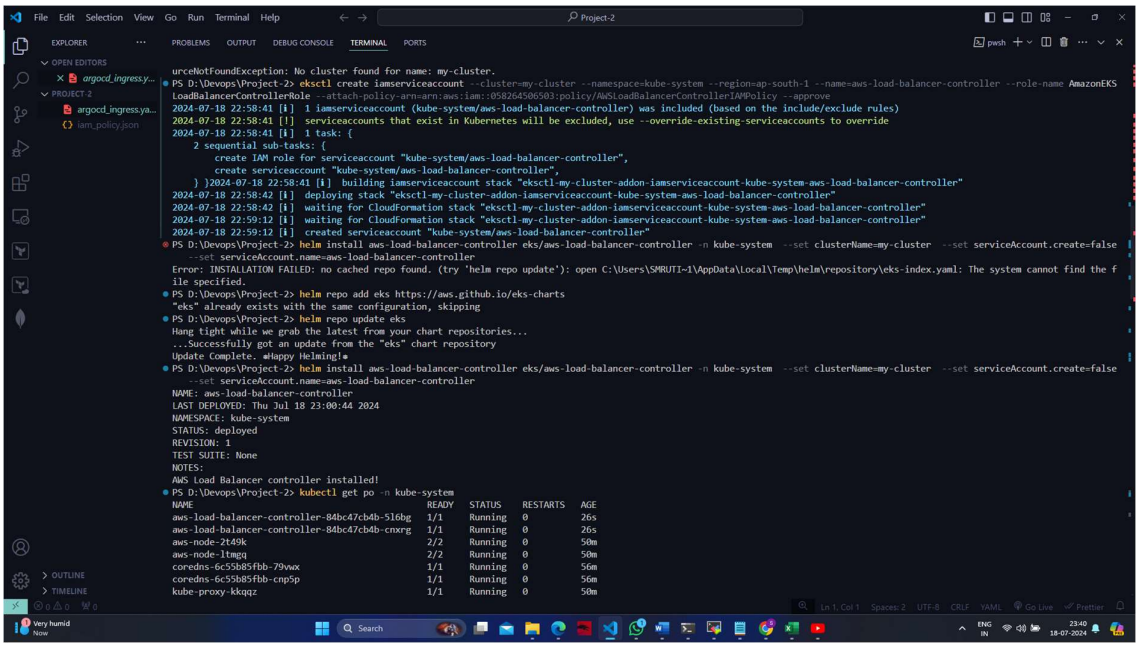
Create a cluster named my-cluster



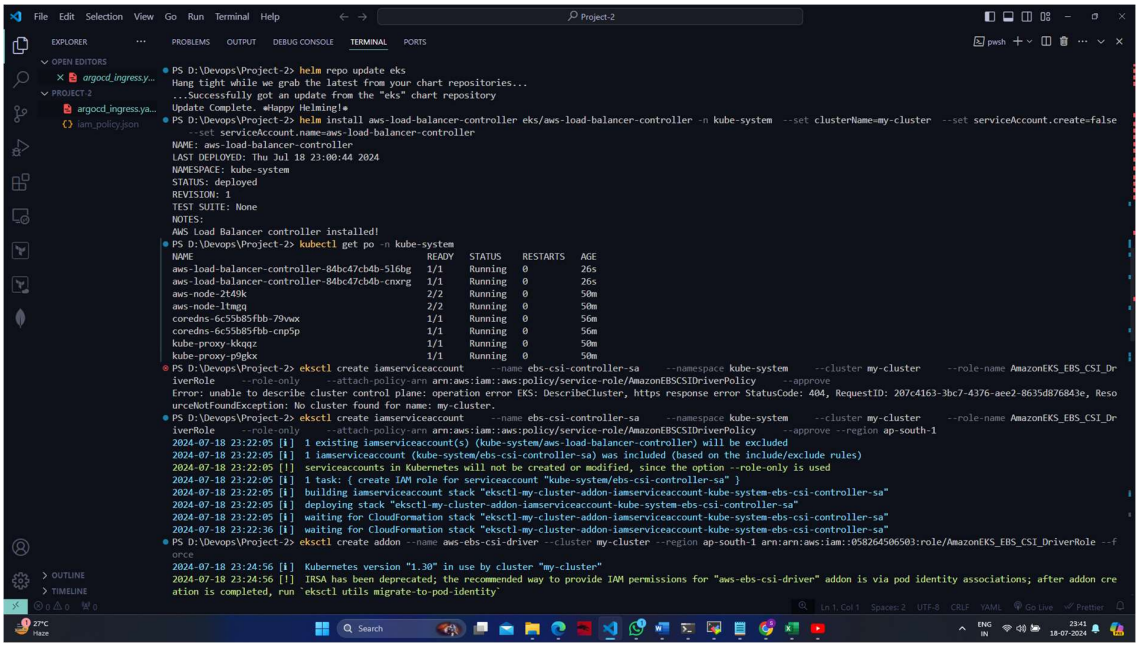
Cluster created



Created service account



Install aws-load-balancer controller using helm

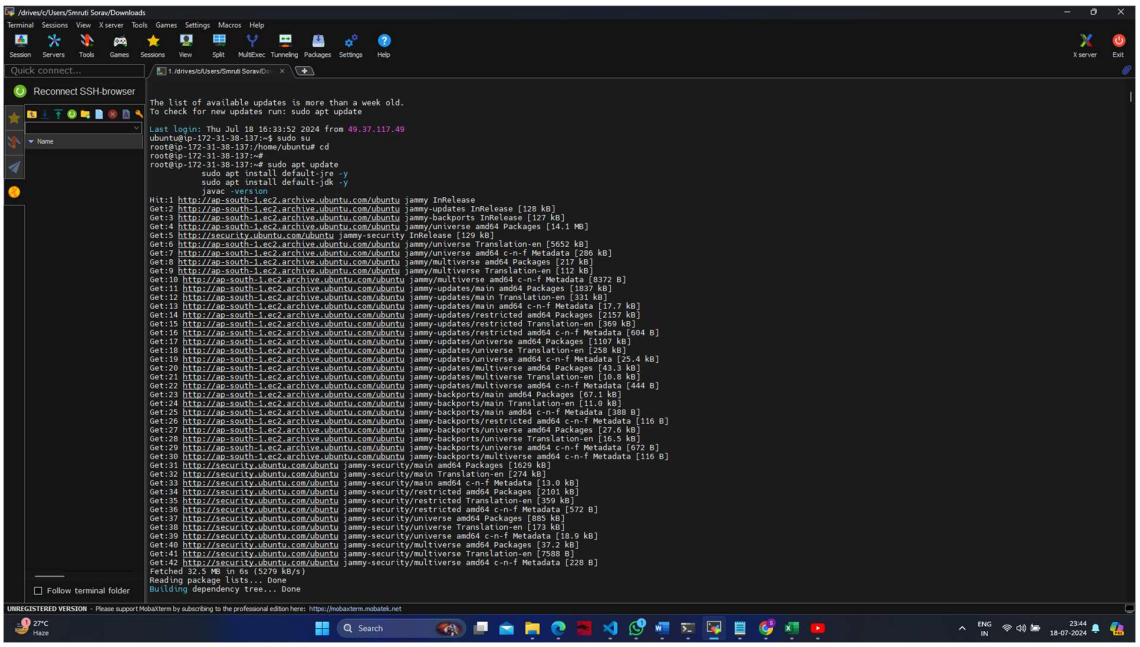


Now pods are in running state

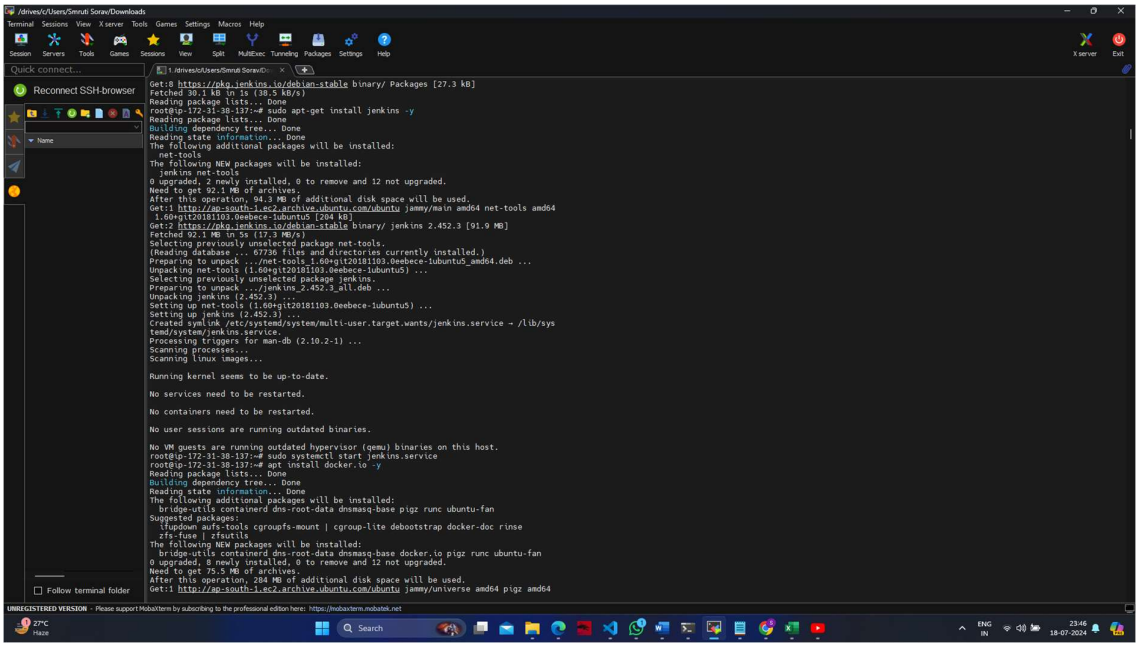
```
AWS Load Balancer controller installed!
PS D:\Devops\Project-2> kubectl get po -n kube-system
NAME                                            READY   STATUS    RESTARTS   AGE
aws-load-balancer-controller-84bc47cb4b-5l6bg   1/1     Running   0          26s
aws-load-balancer-controller-84bc47cb4b-cnxrg   1/1     Running   0          26s
aws-node-2t49k                                  2/2     Running   0          50m
aws-node-ltmgq                                  2/2     Running   0          50m
coredns-6c55b85fbb-79vwx                        1/1     Running   0          56m
coredns-6c55b85fbb-cnp5p                        1/1     Running   0          56m
kube-proxy-kkqqz                                1/1     Running   0          50m
kube-proxy-p9gkx                                1/1     Running   0          50m
PS D:\Devops\Project-2> eksctl create iamserviceaccount      --name ebs-csi-controller-sa
```

Installation of Jenkins

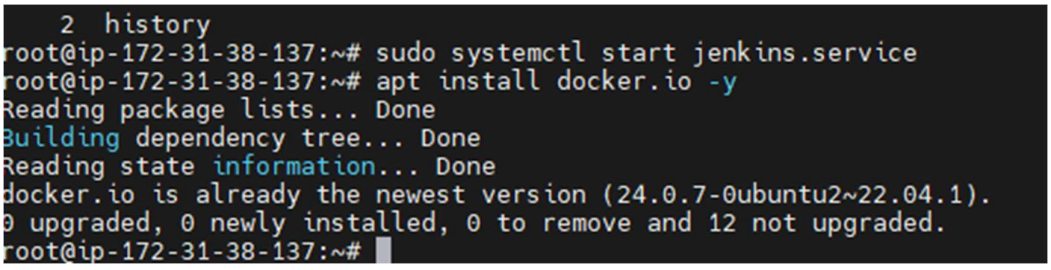
First install Java



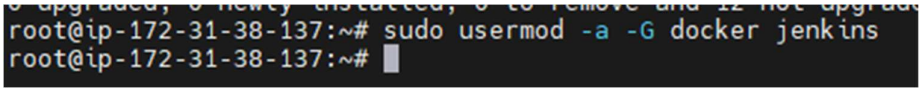
Install Jenkins

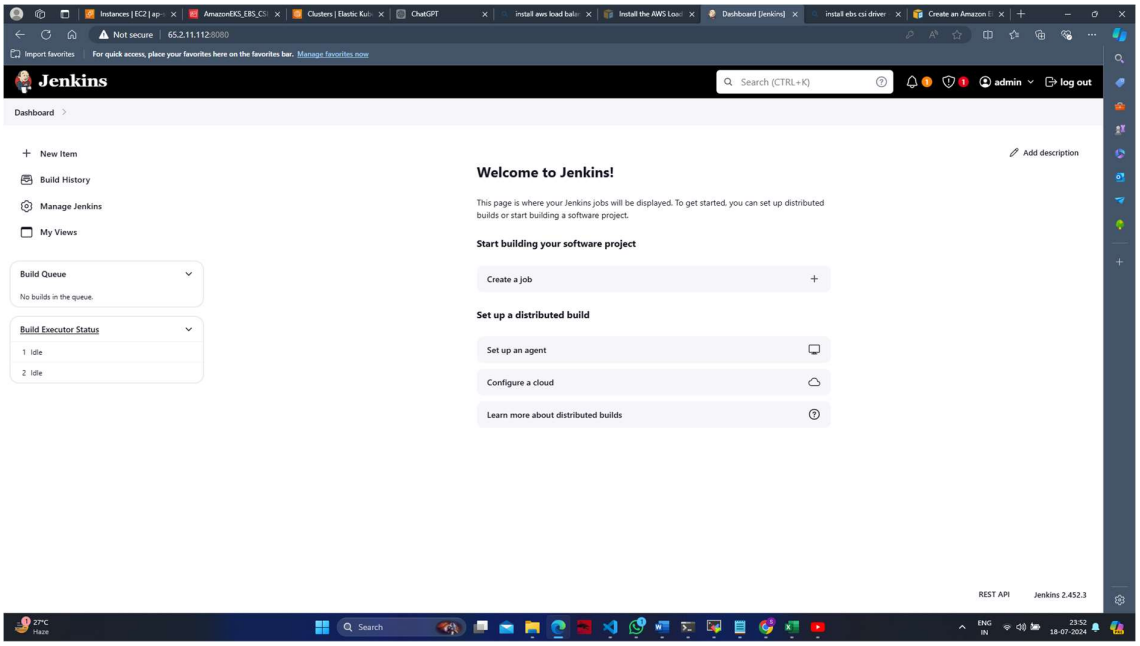


Install docker



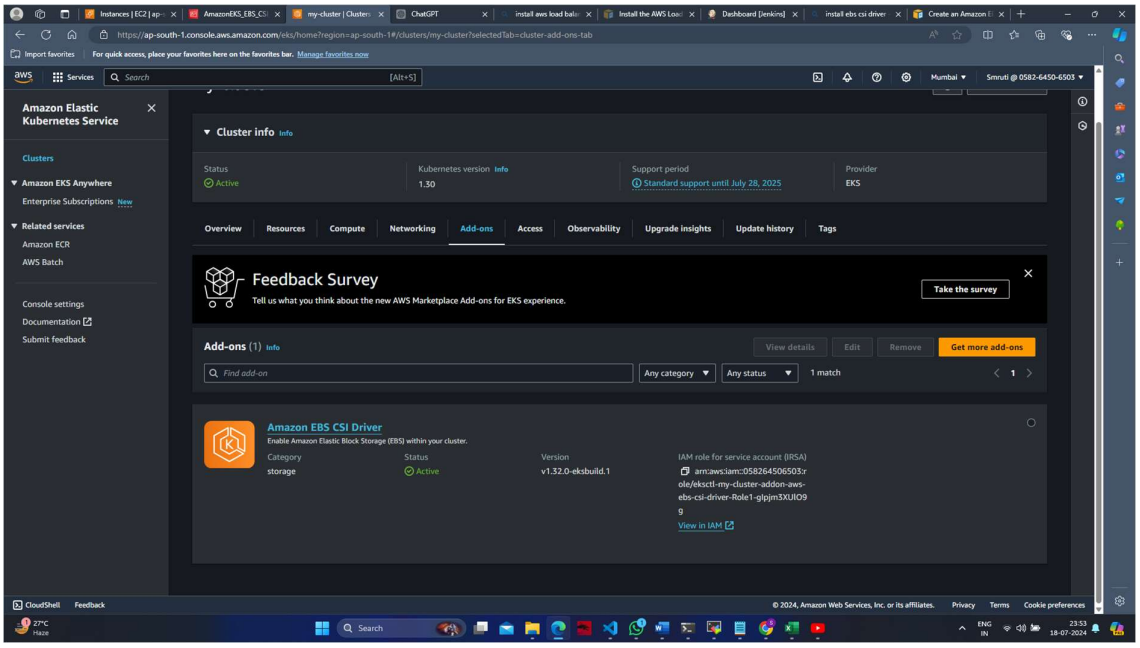
Granting permissions to Jenkins





Install ebs csi driver

```
PS D:\Devops\Project-2> eksctl create iamserviceaccount      --name ebs-csi-controller-sa      --namespace kube-system      --cluster my-cluster      --role-name AmazonEKS_EBS_CSI_Dr
iverRole      --role-only      --attach-policy-arn arn:aws:iam::aws:policy/service-role/AmazonEBSCSIDriverPolicy      --approve --region ap-south-1
2024-07-18 23:22:05 [ℹ]  1 existing iamserviceaccount(s) (kube-system/aws-load-balancer-controller) will be excluded
2024-07-18 23:22:05 [ℹ]  1 iamserviceaccount (kube-system/ebs-csi-controller-sa) was included (based on the include/exclude rules)
2024-07-18 23:22:05 [!]  serviceaccounts in Kubernetes will not be created or modified, since the option --role-only is used
2024-07-18 23:22:05 [ℹ]  1 task: { create IAM role for serviceaccount "kube-system/ebs-csi-controller-sa" }
2024-07-18 23:22:05 [ℹ]  building iamserviceaccount stack "eksctl-my-cluster-addon-iamserviceaccount-kube-system-ebs-csi-controller-sa"
2024-07-18 23:22:05 [ℹ]  deploying stack "eksctl-my-cluster-addon-iamserviceaccount-kube-system-ebs-csi-controller-sa"
2024-07-18 23:22:05 [ℹ]  waiting for CloudFormation stack "eksctl-my-cluster-addon-iamserviceaccount-kube-system-ebs-csi-controller-sa"
2024-07-18 23:22:36 [ℹ]  waiting for CloudFormation stack "eksctl-my-cluster-addon-iamserviceaccount-kube-system-ebs-csi-controller-sa"
PS D:\Devops\Project-2> eksctl create addon --name aws-ebs-csi-driver --cluster my-cluster --region ap-south-1 arn:arn:aws:iam::058264506503:role/AmazonEKS_EBS_CSI_DriverRole --f
orce
2024-07-18 23:24:56 [ℹ]  Kubernetes version "1.30" in use by cluster "my-cluster"
2024-07-18 23:24:56 [!]  IRSA has been deprecated; the recommended way to provide IAM permissions for "aws-ebs-csi-driver" addon is via pod identity associations; after addon cre
ation is completed, run `eksctl utils migrate-to-pod-identity`
2024-07-18 23:24:56 [ℹ]  creating role using recommended policies for "aws-ebs-csi-driver" addon
2024-07-18 23:24:57 [ℹ]  deploying stack "eksctl-my-cluster-addon-aws-ebs-csi-driver"
2024-07-18 23:24:57 [ℹ]  waiting for CloudFormation stack "eksctl-my-cluster-addon-aws-ebs-csi-driver"
2024-07-18 23:25:27 [ℹ]  waiting for CloudFormation stack "eksctl-my-cluster-addon-aws-ebs-csi-driver"
2024-07-18 23:26:06 [ℹ]  waiting for CloudFormation stack "eksctl-my-cluster-addon-aws-ebs-csi-driver"
2024-07-18 23:26:06 [ℹ]  creating addon
```


Amazon Elastic Kubernetes Service
Clusters
Amazon EKS Anywhere
Enterprise Subscriptions New
Related services
Amazon ECR
AWS Batch
Console settings
Documentation
Submit feedback
Cluster info Info
Status
Active
Kubernetes version Info
1.30
Support period
Standard support until July 28, 2025
Provider
EKS
Overview
Resources
Compute
Networking
Add-ons
Access
Observability
Upgrade insights
Update history
Tags
Feedback Survey
Tell us what you think about the new AWS Marketplace Add-ons for EKS experience.
Take the survey
Add-ons (1) Info
View details
Edit
Remove
Get more add-ons
Find add-on
Any category
Any status
1 match
Amazon EBS CSI Driver
Enable Amazon Elastic Block Storage (EBS) within your cluster.
Category
storage
Status
Active
Version
v1.32.0-eksbuild.1
IAM role for service account (IRSA)
arn:aws:iam::058264506503:role/eksctl-my-cluster-addon-aws-ebs-csi-driver-Role1-glpjm5XUIO99
View in IAM
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences