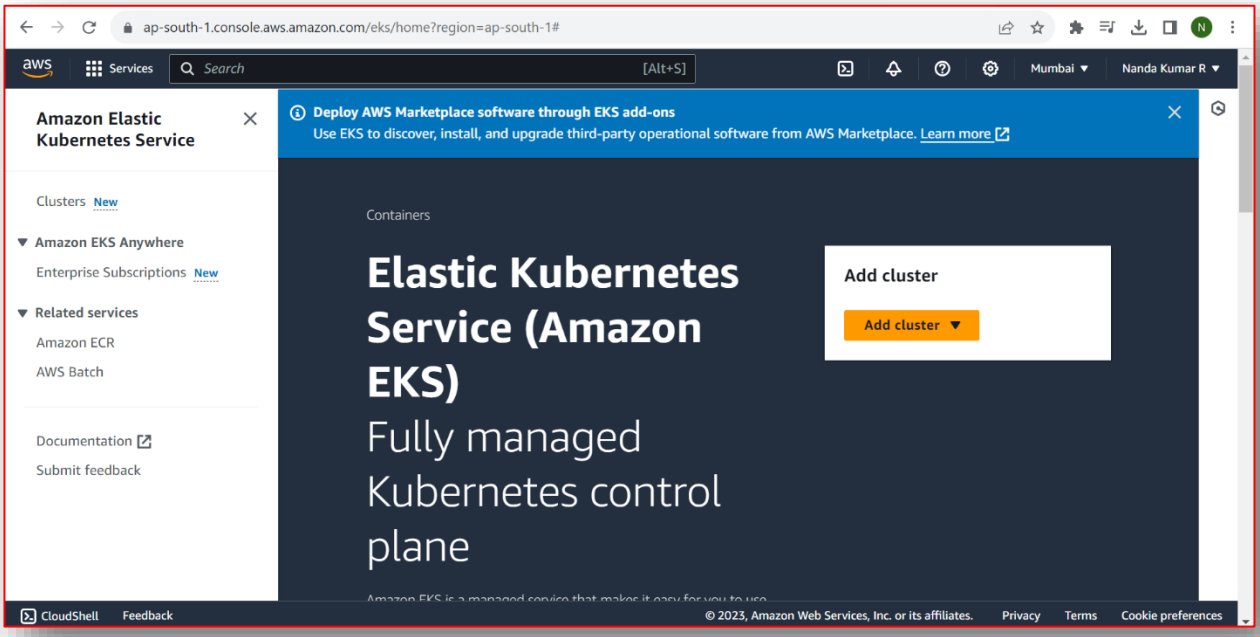
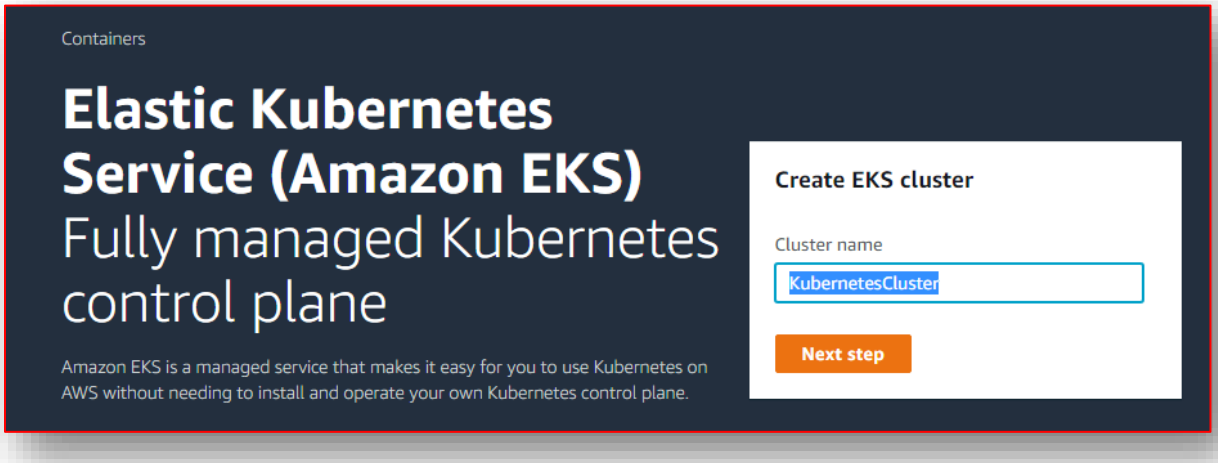
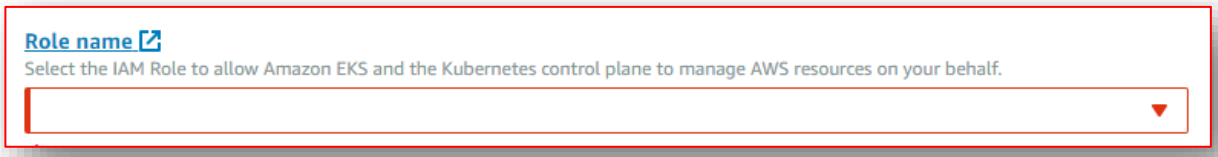
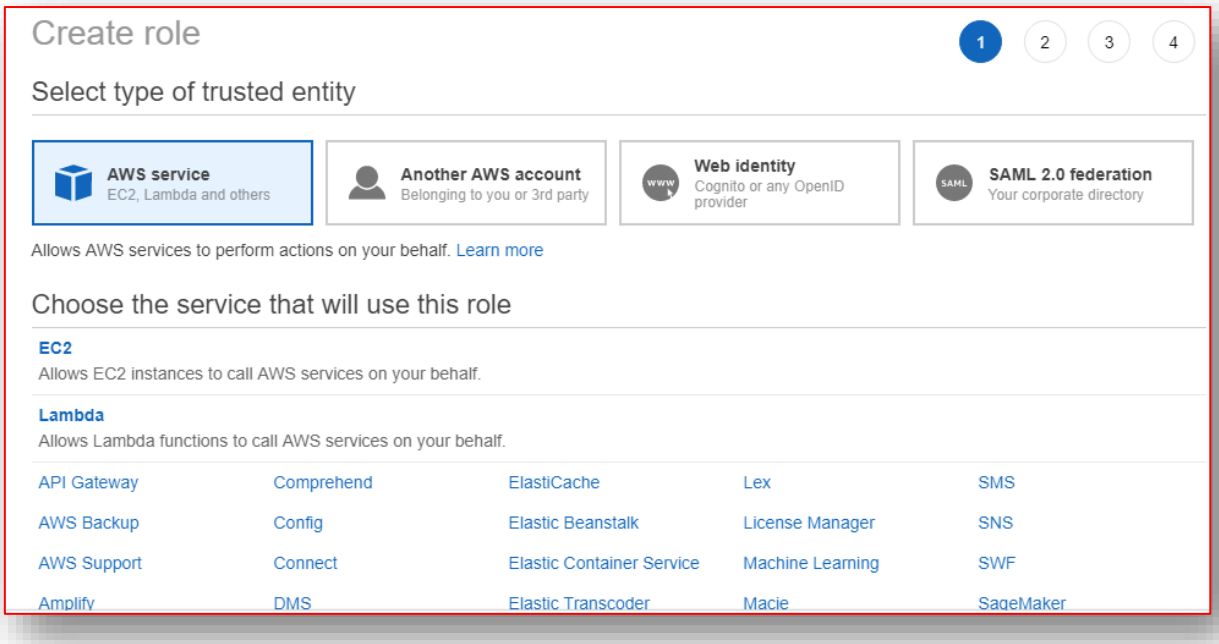
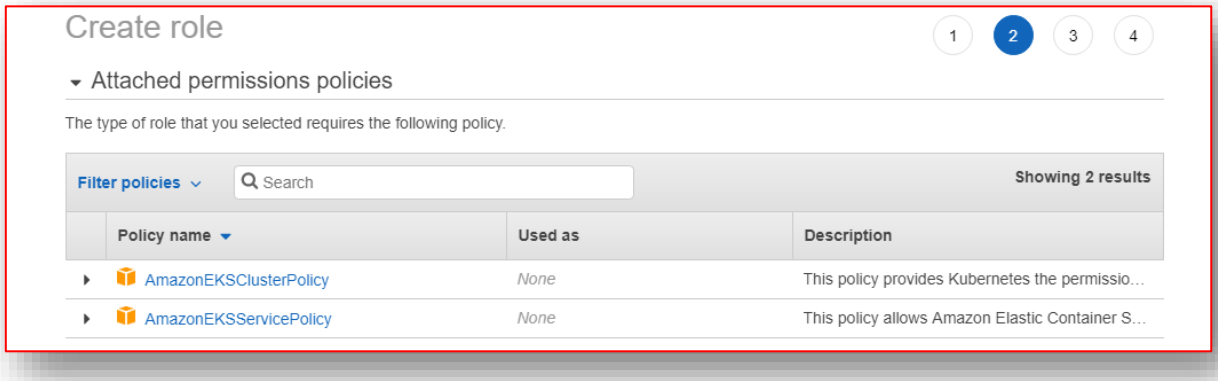
Installing Kubernetes on Cloud(AWS)

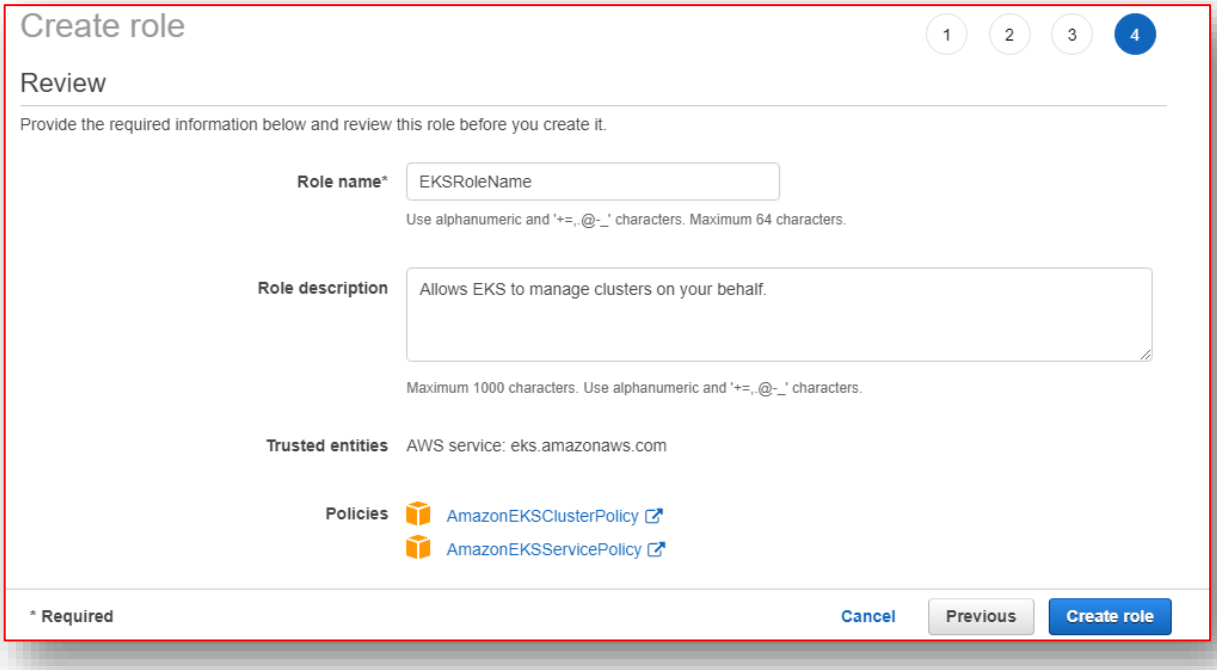


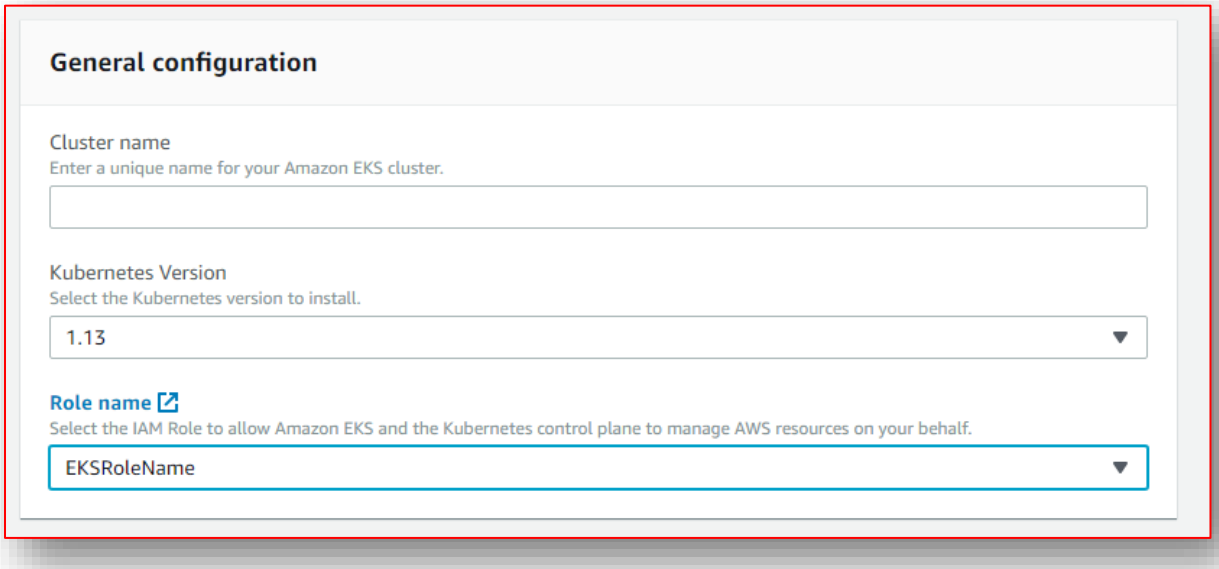


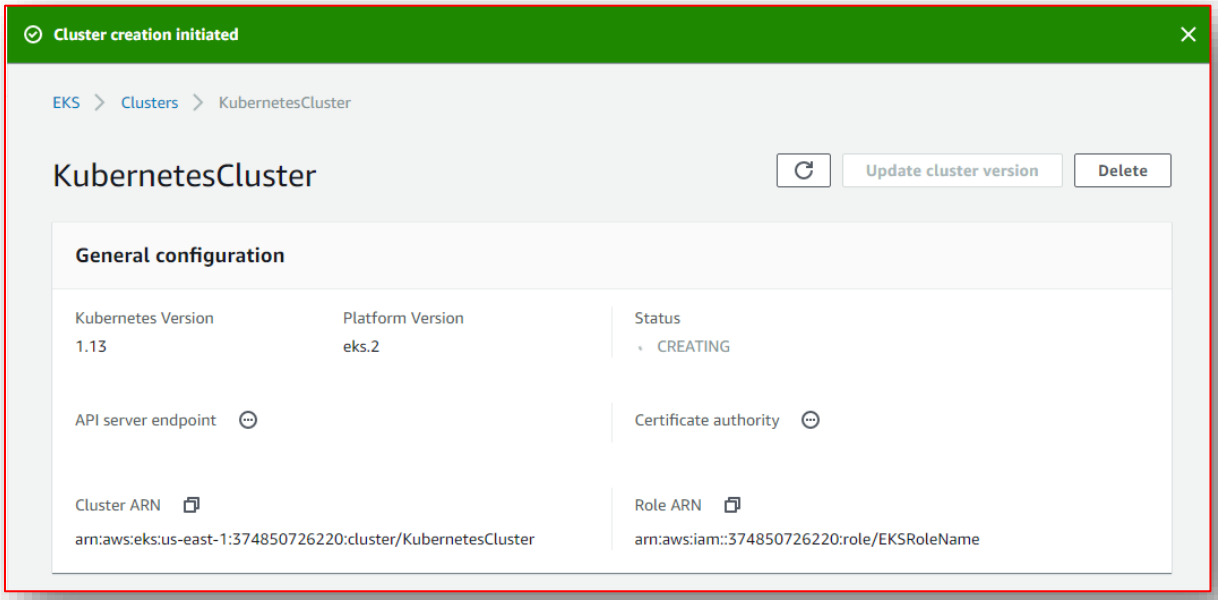

Role name
Select the IAM Role to allow Amazon EKS and the Kubernetes control plane to manage AWS resources on your behalf.

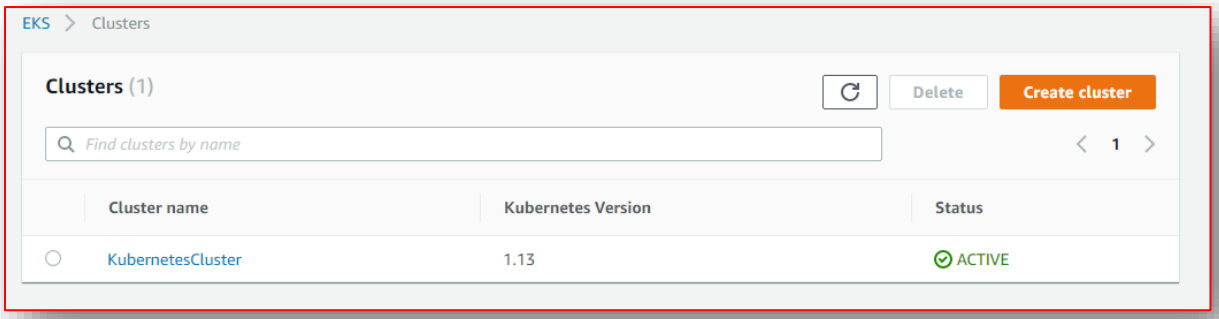

Create role
1
2
3
4
Select type of trusted entity
AWS service
EC2, Lambda and others
Another AWS account
Belonging to you or 3rd party
Web identity
Cognito or any OpenID provider
SAML 2.0 federation
Your corporate directory
Allows AWS services to perform actions on your behalf. Learn more
Choose the service that will use this role
EC2
Allows EC2 instances to call AWS services on your behalf.
Lambda
Allows Lambda functions to call AWS services on your behalf.
API Gateway
Comprehend
ElastiCache
Lex
SMS
AWS Backup
Config
Elastic Beanstalk
License Manager
SNS
AWS Support
Connect
Elastic Container Service
Machine Learning
SWF
Amplify
DMS
Elastic Transcoder
Macie
SageMaker


Create role
1
2
3
4
Attached permissions policies
The type of role that you selected requires the following policy.
Filter policies
Search
Showing 2 results
Policy name
Used as
Description
AmazonEKSClusterPolicy
None
This policy provides Kubernetes the permissio...
AmazonEKSServicePolicy
None
This policy allows Amazon Elastic Container S...


Create role
1
2
3
4
Review
Provide the required information below and review this role before you create it.
Role name*
EKSRoleName
Use alphanumeric and '+=,.@-_' characters. Maximum 64 characters.
Role description
Allows EKS to manage clusters on your behalf.
Maximum 1000 characters. Use alphanumeric and '+=,.@-_' characters.
Trusted entities
AWS service: eks.amazonaws.com
Policies
AmazonEKSClusterPolicy
AmazonEKSServicePolicy
* Required
Cancel
Previous
Create role


General configuration
Cluster name
Enter a unique name for your Amazon EKS cluster.
Kubernetes Version
Select the Kubernetes version to install.
1.13
Role name
Select the IAM Role to allow Amazon EKS and the Kubernetes control plane to manage AWS resources on your behalf.
EKSRoleName


Cluster creation initiated
EKS > Clusters > KubernetesCluster
KubernetesCluster
Update cluster version
Delete
General configuration
Kubernetes Version
1.13
Platform Version
eks.2
Status
CREATING
API server endpoint
Certificate authority
Cluster ARN
arn:aws:eks:us-east-1:374850726220:cluster/KubernetesCluster
Role ARN
arn:aws:iam::374850726220:role/EKSRoleName


EKS > Clusters
Clusters (1)
Delete
Create cluster
Find clusters by name
1
Cluster name
Kubernetes Version
Status
KubernetesCluster
1.13
ACTIVE

```
root@ip-172-31-17-73:~# mkdir bin
root@ip-172-31-17-73:~# cp ./kubectl $HOME/bin/kubectl && export PATH=$HOME/bin:$PATH
root@ip-172-31-17-73:~# kubectl version
Client Version: version.Info{Major:"1", Minor:"10", GitVersion:"v1.10.3", GitCommit:"2bba0
-26T20:40:11Z", GoVersion:"go1.9.3", Compiler:"gc", Platform:"linux/amd64"}
```

```
root@ip-172-31-17-73:~# aws configure
AWS Access Key ID [None]: AKIAVORWYFFGE3YTFZFZ
AWS Secret Access Key [None]: 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
Default region name [None]: us-east-1
Default output format [None]: json
root@ip-172-31-17-73:~#
```

```
root@ip-172-31-17-73:~# aws eks --region us-east-1 update-kubeconfig --name KubernetesCluster
Updated context arn:aws:eks:us-east-1:374850726220:cluster/KubernetesCluster in /root/.kube/config
root@ip-172-31-17-73:~# kubectl get svc
NAME         TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
kubernetes   ClusterIP   10.100.0.1   <none>        443/TCP   32m
root@ip-172-31-17-73:~#
```