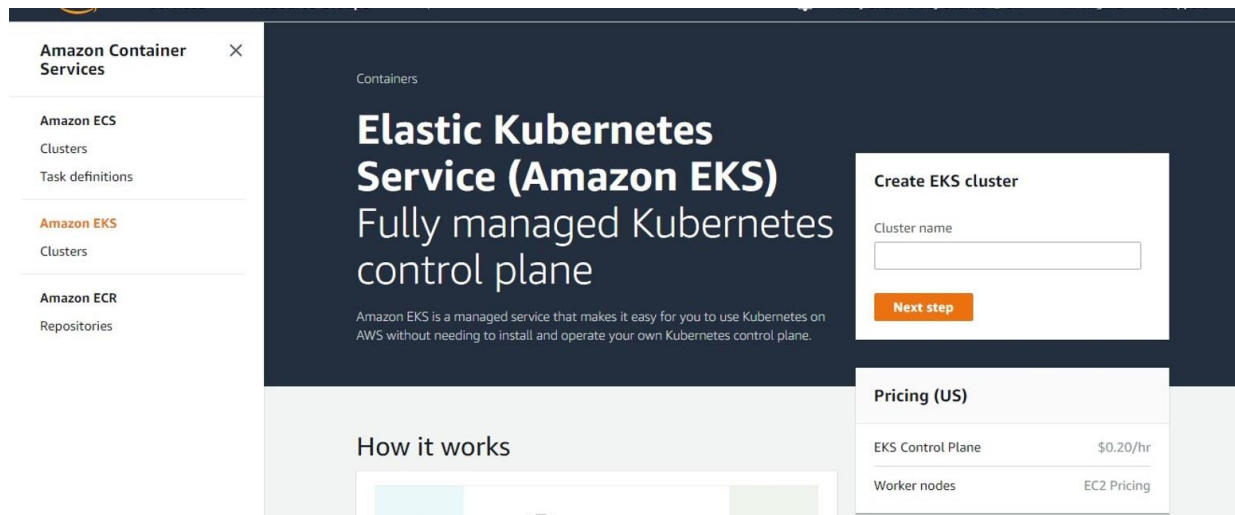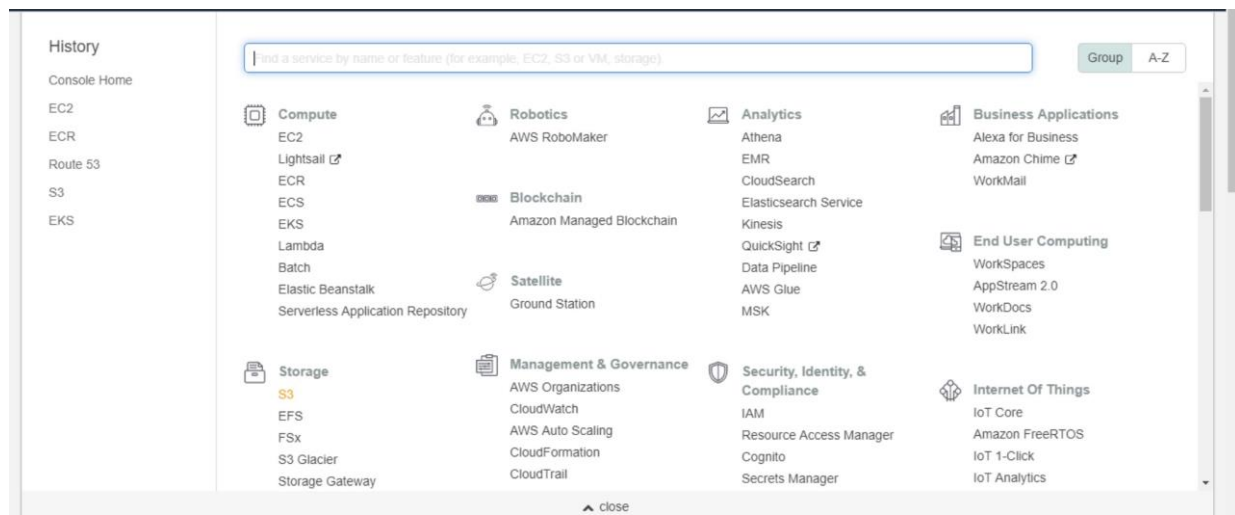Install Kubernetes on Cloud:

Role name ↗

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

Create role

Select type of trusted entity

AWS service	Another AWS account	Web identity	SAML 2.0 federation
EC2, Lambda and others	Belonging to you or 3rd party	Cognito or any OpenID provider	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

▾ 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

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	Platform Version	Status
1.13	eks.2	• CREATING

API server endpoint ⊙		Certificate authority ⊙

Cluster ARN 🗗		Role ARN 🗗
arn:aws:eks:us-east-1:374850726220:cluster/KubernetesCluster		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

---

wget https://amazon-eks.s3-us-west-2.amazonaws.com/1.10.3/2018-07-26/bin/linux/amd64/kubectl

chmod +x kubectl

./kubectl

```
root@ip-172-31-17-73:~# wget https://amazon-eks.s3-us-west-2.amazonaws.com/1.10.3/2018-07-26/bin/linux/amd64/kubectl
--2019-07-28 02:03:07--  https://amazon-eks.s3-us-west-2.amazonaws.com/1.10.3/2018-07-26/bin/linux/amd64/kubectl
Resolving amazon-eks.s3-us-west-2.amazonaws.com (amazon-eks.s3-us-west-2.amazonaws.com)... 52.218.253.65
Connecting to amazon-eks.s3-us-west-2.amazonaws.com (amazon-eks.s3-us-west-2.amazonaws.com)|52.218.253.65|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 54146532 (52M) [binary/octet-stream]
Saving to: âkubectlâ

kubectl                        100%[===================================================================>]  51.64M  7.89MB/s

2019-07-28 02:03:14 (7.41 MB/s) - âkubectlâ saved [54146532/54146532]

root@ip-172-31-17-73:~# ./kubectl
-su: ./kubectl: Permission denied
root@ip-172-31-17-73:~# chmod +x kubectl
root@ip-172-31-17-73:~# ./kubectl
kubectl controls the Kubernetes cluster manager.

Find more information at: https://kubernetes.io/docs/reference/kubectl/overview/
```

mkdir bin

cp ./kubectl $HOME/bin/kubectl && export PATH=$HOME/bin:$PATH

kubectl version

kubectl version --short --client

```
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"}
```

wget https://amazon-eks.s3-us-west-2.amazonaws.com/1.10.3/2018-07-26/bin/linux/amd64/aws-iam-authenticator

chmod +x ./aws-iam-authenticator

cp ./aws-iam-authenticator $HOME/bin/aws-iam-authenticator && export PATH=$HOME/bin:$PATH

aws-iam-authenticator help

```
root@ip-172-31-17-73:~# wget https://amazon-eks.s3-us-west-2.amazonaws.com/1.10.3/2018-07-26/bin/linux/amd64/aws-iam-authenticator
--2019-07-28 02:11:02--  https://amazon-eks.s3-us-west-2.amazonaws.com/1.10.3/2018-07-26/bin/linux/amd64/aws-iam-authenticator
Resolving amazon-eks.s3-us-west-2.amazonaws.com (amazon-eks.s3-us-west-2.amazonaws.com)... 52.218.193.153
Connecting to amazon-eks.s3-us-west-2.amazonaws.com (amazon-eks.s3-us-west-2.amazonaws.com)|52.218.193.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 26349462 (25M) [binary/octet-stream]
Saving to: âaws-iam-authenticatorâ

aws-iam-authenticator          100%[===================================================================>]

2019-07-28 02:11:05 (9.03 MB/s) - âaws-iam-authenticatorâ saved [26349462/26349462]

root@ip-172-31-17-73:~# chmod +x ./aws-iam-authenticator
root@ip-172-31-17-73:~# cp ./aws-iam-authenticator $HOME/bin/aws-iam-authenticator && export PATH=$HOME/bin:$PATH
root@ip-172-31-17-73:~# aws-iam-authenticator help
A tool to authenticate to Kubernetes using AWS IAM credentials
```

Access keys

Use access keys to make secure REST or HTTP Query protocol requests to AWS service APIs. For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation. Learn more

Create access key

Access key ID	Created	Last used	Status	
AKIAVORWYFFGC3WVPNWC	2019-07-24 08:28 UTC+0530	2019-07-26 13:51 UTC+0530 with sts in us-east-1	Active | Make inactive	✖

Create access key				
Access key ID	**Created**	**Last used**	**Status**	
AKIAVORWYFFGC3WVPNWC	2019-07-24 08:28 UTC+0530	2019-07-26 13:51 UTC+0530 with sts in us-east-1	**Active** | Make inactive	✖
AKIAVORWYFFGE3YTFZFZ	2019-07-28 07:49 UTC+0530	N/A	**Active** | Make inactive	✖

```
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:~#
```