

<https://medium.com/avmconsulting-blog/deploying-a-kubernetes-cluster-with-amazon-eks-9455e7e7828>

<https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html>

[After installation Test](#)

[aws eks list-clusters](#)

## Step 0: Before you start

You will need to make sure you have the following components installed and set up before you start with Amazon EKS:

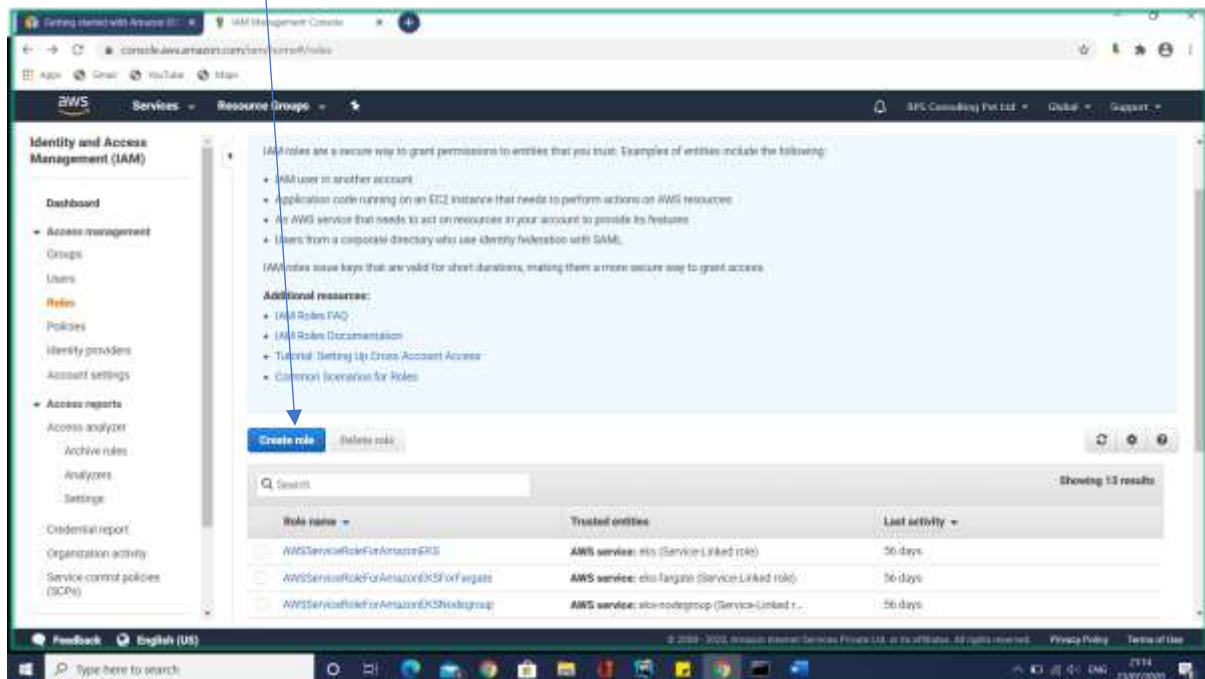
- AWS CLI – while you can use the AWS Console to create a cluster in EKS, the AWS CLI is easier. You will need version 1.16.73 at least.
- Kubectl – used for communicating with the cluster API server.. This endpoint is public by default, but is secured by proper configuration of a VPC.
- AWS-IAM-Authenticator – to allow IAM authentication with the Kubernetes cluster.

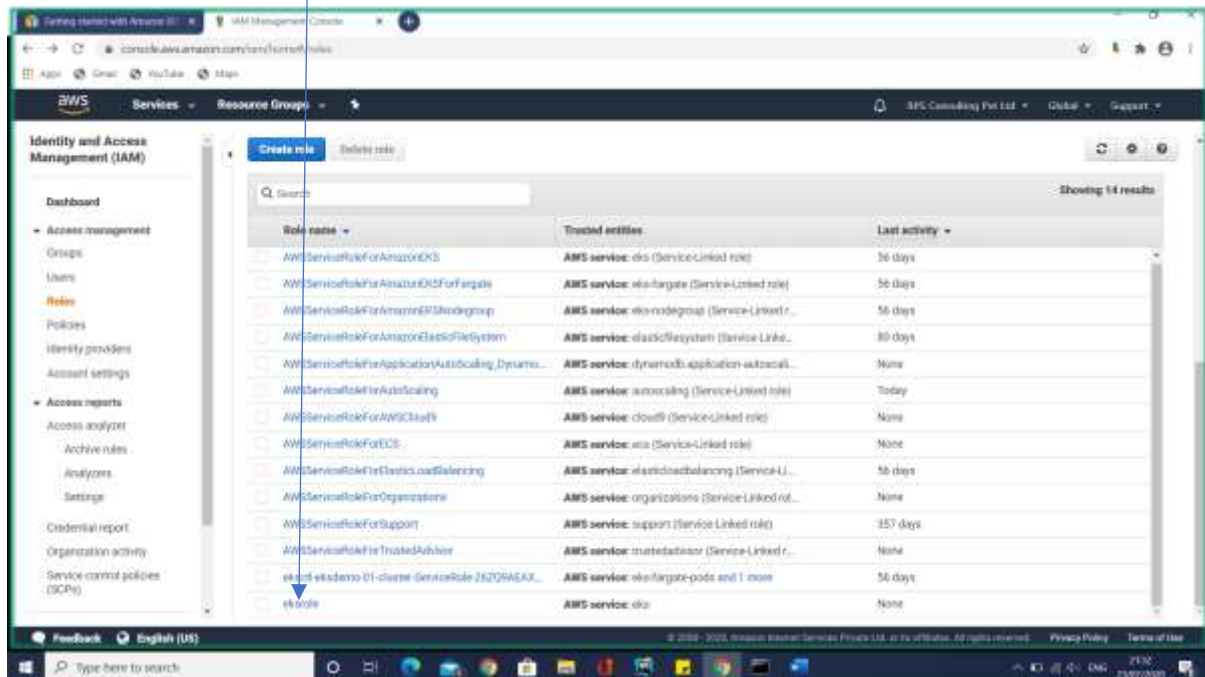
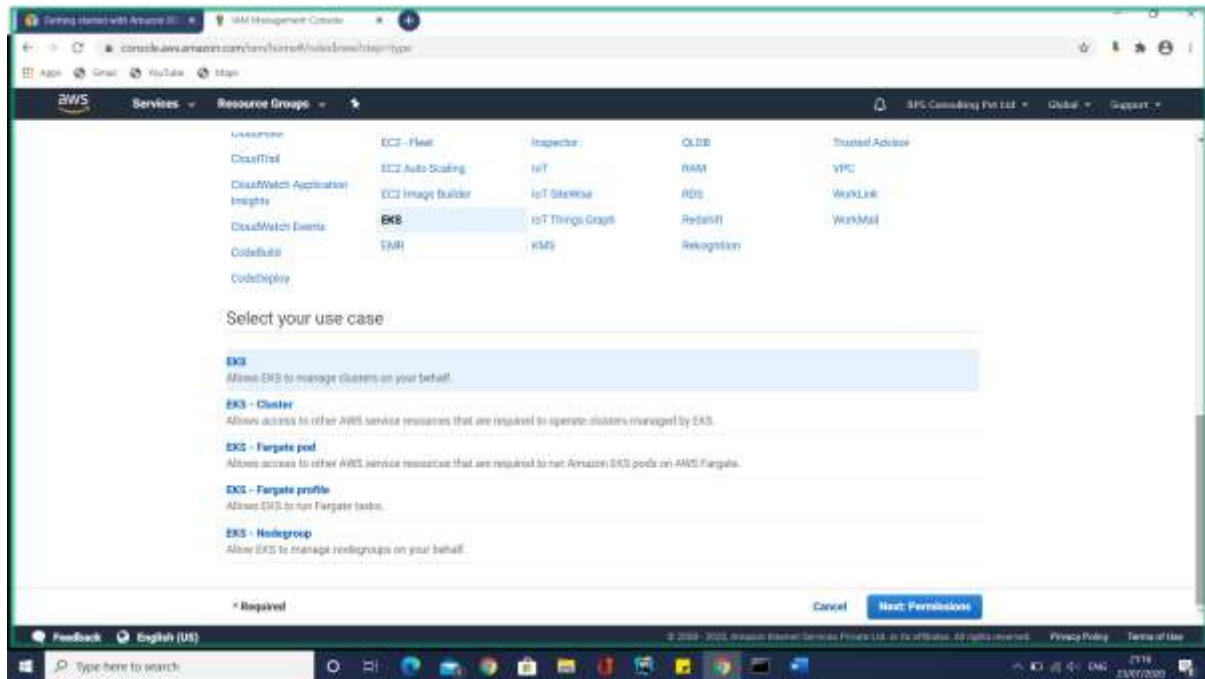
# Step 1: Creating an EKS role

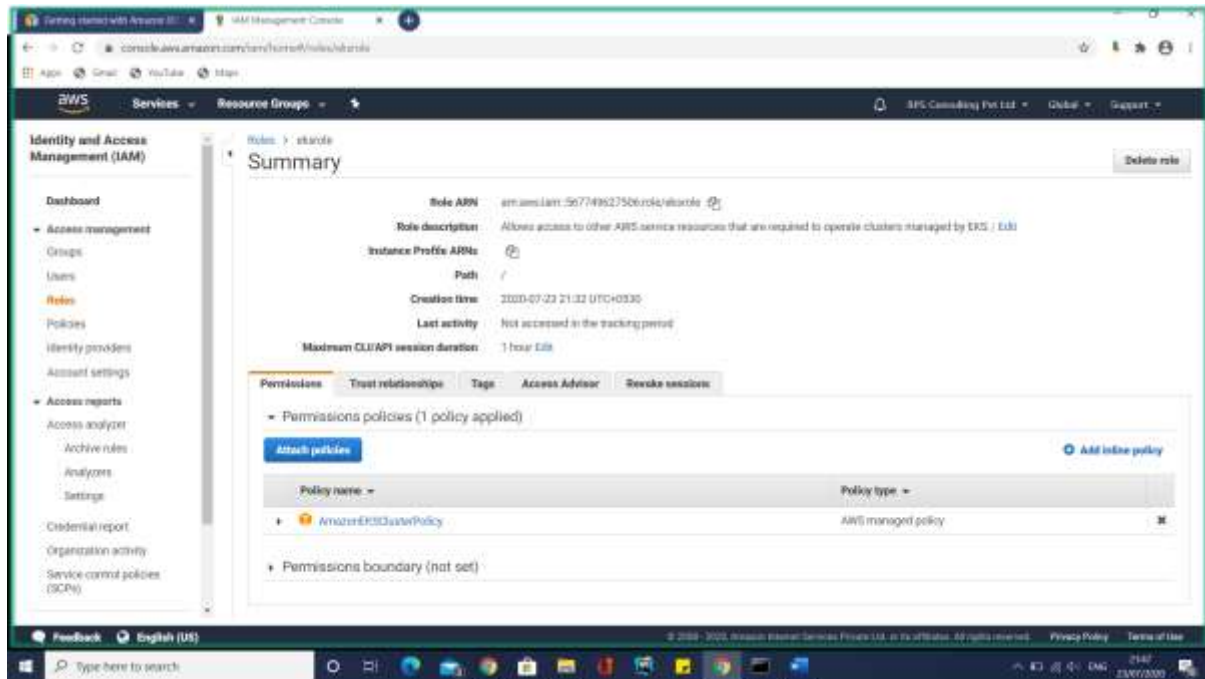
Our first step is to set up a new IAM role with EKS permissions.

Open the [IAM console](#), select **Roles** on the left and then click the **Create Role** button at the top of the page.

From the list of AWS services, select **EKS** and then **Next: Permissions** at the bottom of the page.







## Role ARN

`arn:aws:iam::567749627506:role/eksrole`

`arn:aws:iam::256544469827:role/eksrole`

# Step 2: Creating a VPC for EKS

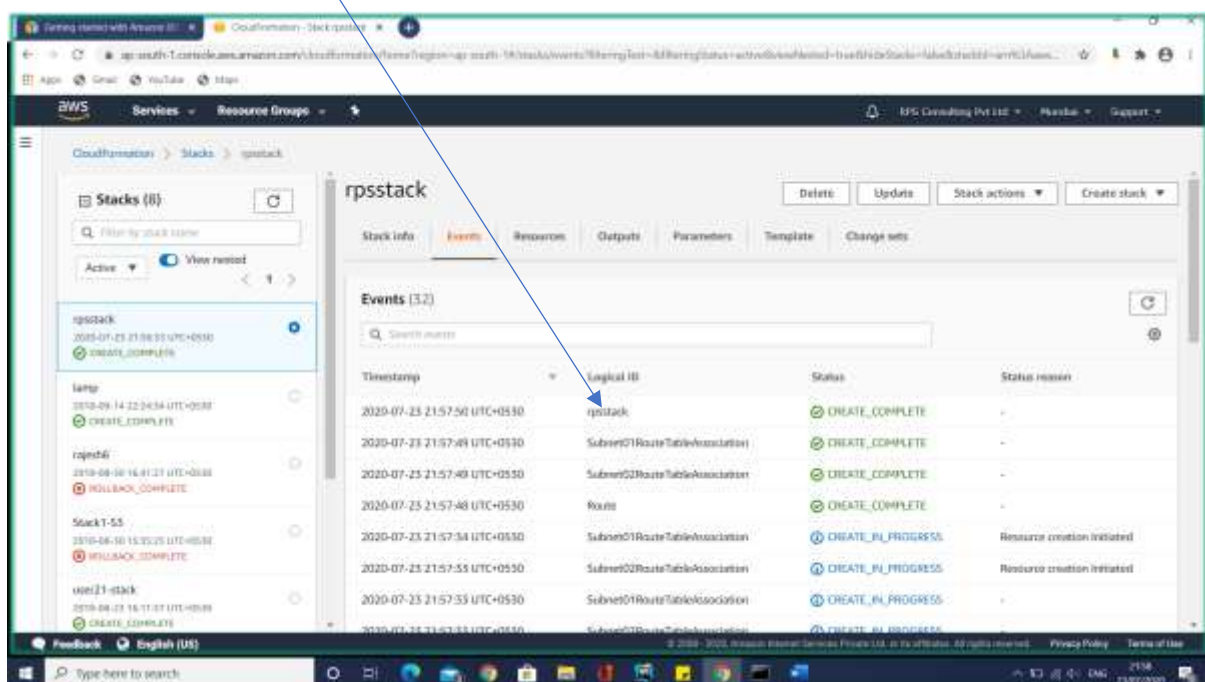
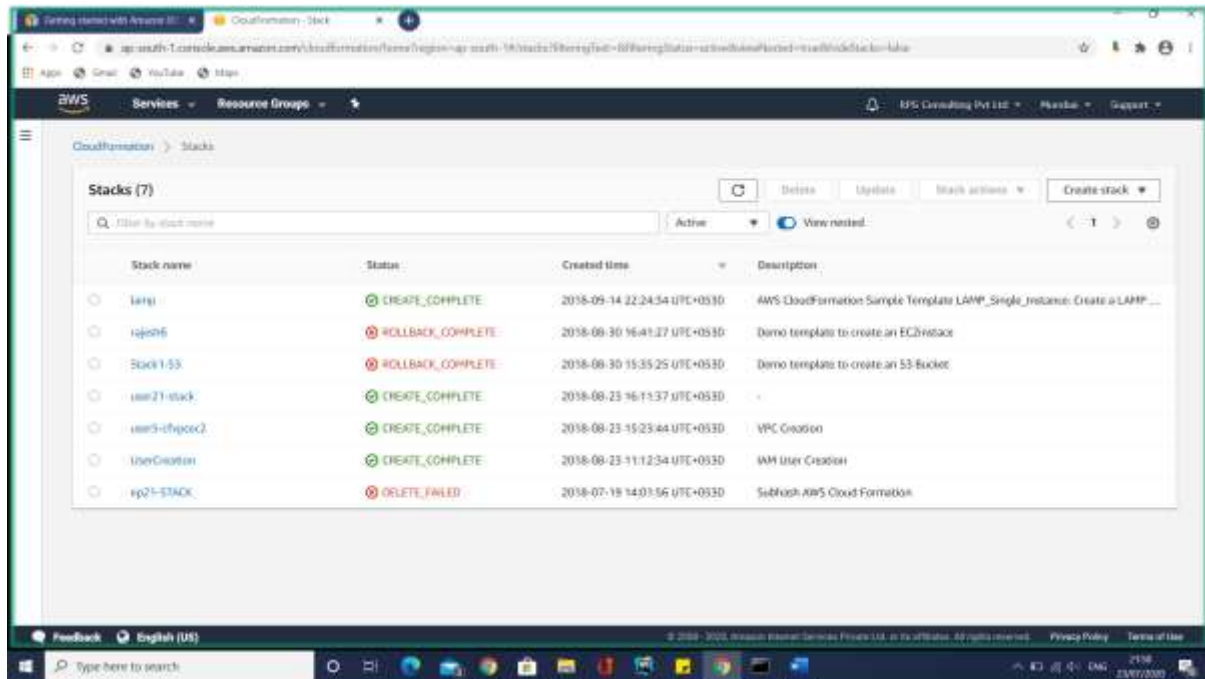
Next, we're going to create a separate VPC—a Virtual Private Cloud that protects communication between worker nodes and the AWS Kubernetes API server—for our EKS cluster. To do this, we're going to use a CloudFormation template that contains all the necessary EKS-specific ingredients for setting up the VPC.

Open up [CloudFormation](#), and click the **Create new stack** button.

On the **Select template** page, enter the URL of the CloudFormation YAML in the relevant section:

<https://amazon-eks.s3-us-west-2.amazonaws.com/cloudformation/2019-01-09/amazon-eks-vpc-sample.yaml>

## Search in Service Cloud Formation



Getting started with Amazon EKS - CloudFormation - Stack ops - AWS

Stacks (8)

Filter by stack name

Active View nested

rpstack

Stack info Events Resources Outputs Parameters Template Change sets

Overview

Stack ID: [arn:aws:cloudformation:us-east-1:967749627506:stack/rpstack/1307P8d-c801-1164-869c-052535b38146](#)

Description: Amazon EKS Sample VPC

Status: **CREATE\_COMPLETE**

Root stack: -

Created time: 2020-07-25 21:50:55 UTC+0530

Updated time: -

Drift status: -

Last drift check time: -

Feedback English (US)

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Getting started with Amazon EKS - CloudFormation - Stack ops - AWS

Stacks (8)

Filter by stack name

Active View nested

rpstack

Stack info Events Resources **Outputs** Parameters Template Change sets

Outputs (3)

Search outputs

Key	Value	Description	Export name
SecurityGroup	sg-05ae18c1d8f3ba94a	Security group for the cluster control plane communication with worker nodes	-
SubnetId	subnet-09a4c4805a32e661f,subnet-0c0b5221c4c2c4ef	All subnets in the VPC	-
VpcId	vpc-0a2eb04fa9b51c1	The VPC ID	-

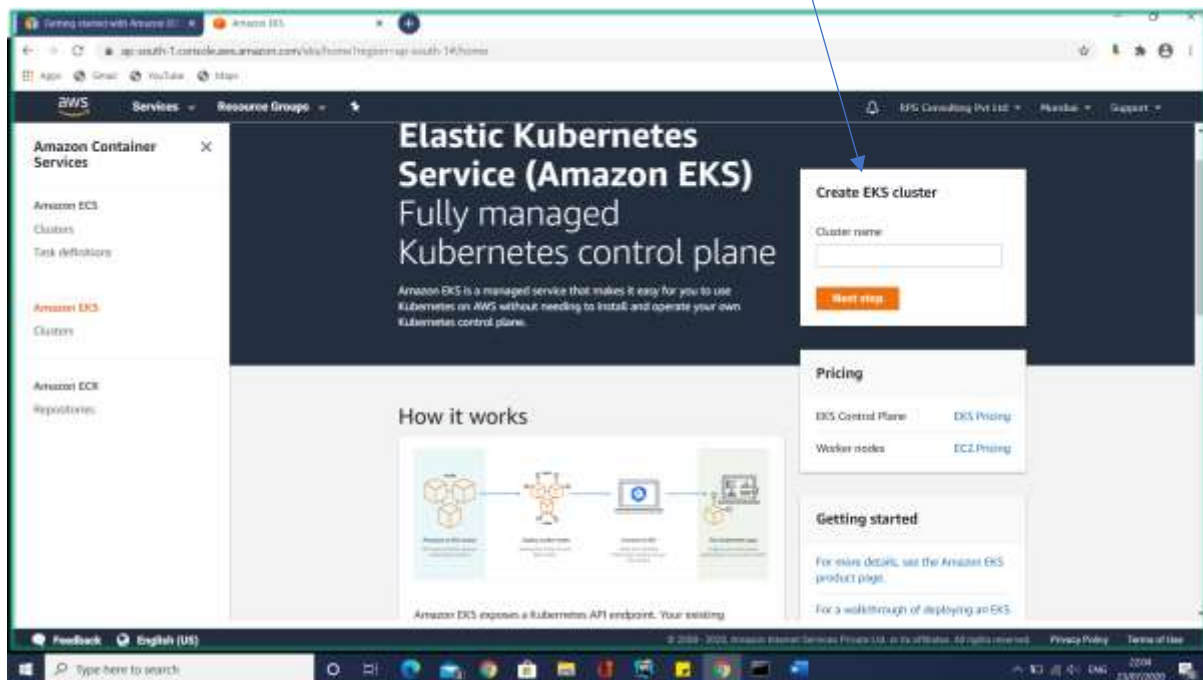
© 2020 - 2025, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use

SecurityGroups	sg-05ae18c1d8f3ba94a	Security group for the cluster control plane
SubnetIds	subnet-09a4c4803a32e661f,subnet-0c0fb522fcdc2c4ef	All subnets in the VPC
VpcId	vpc-0a2eeb04f6af651c1	The VPC Id

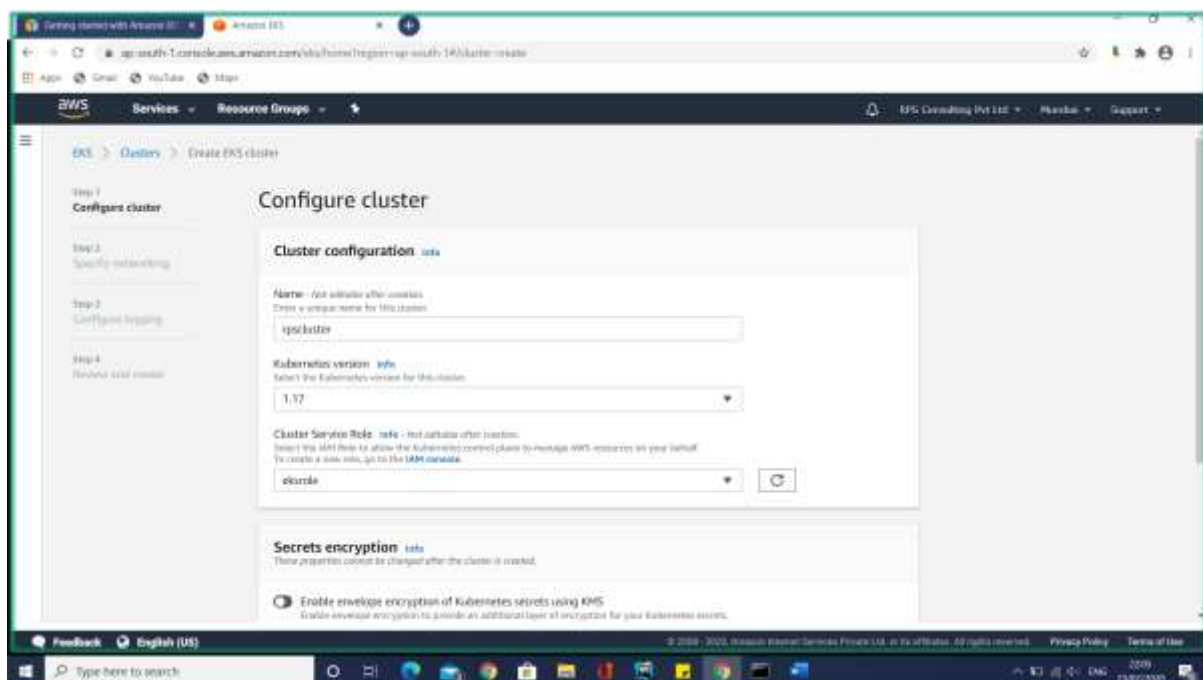
## Step 3: Creating the EKS cluster

**Navigate to EKS cluster**

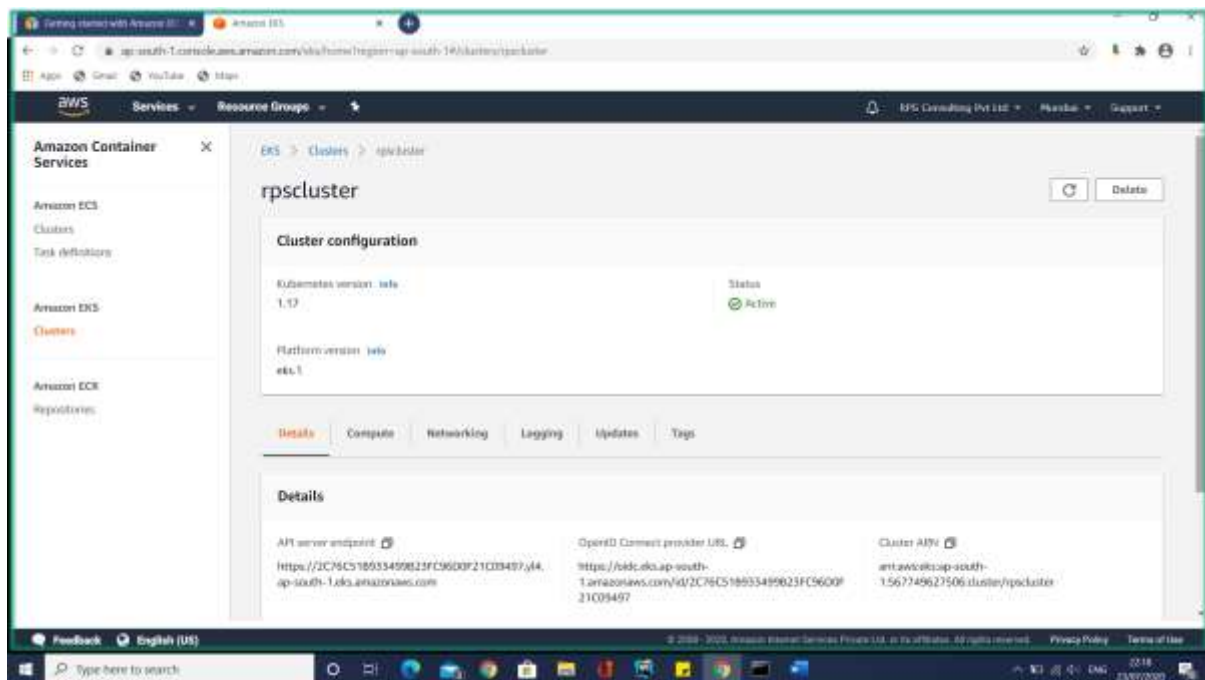
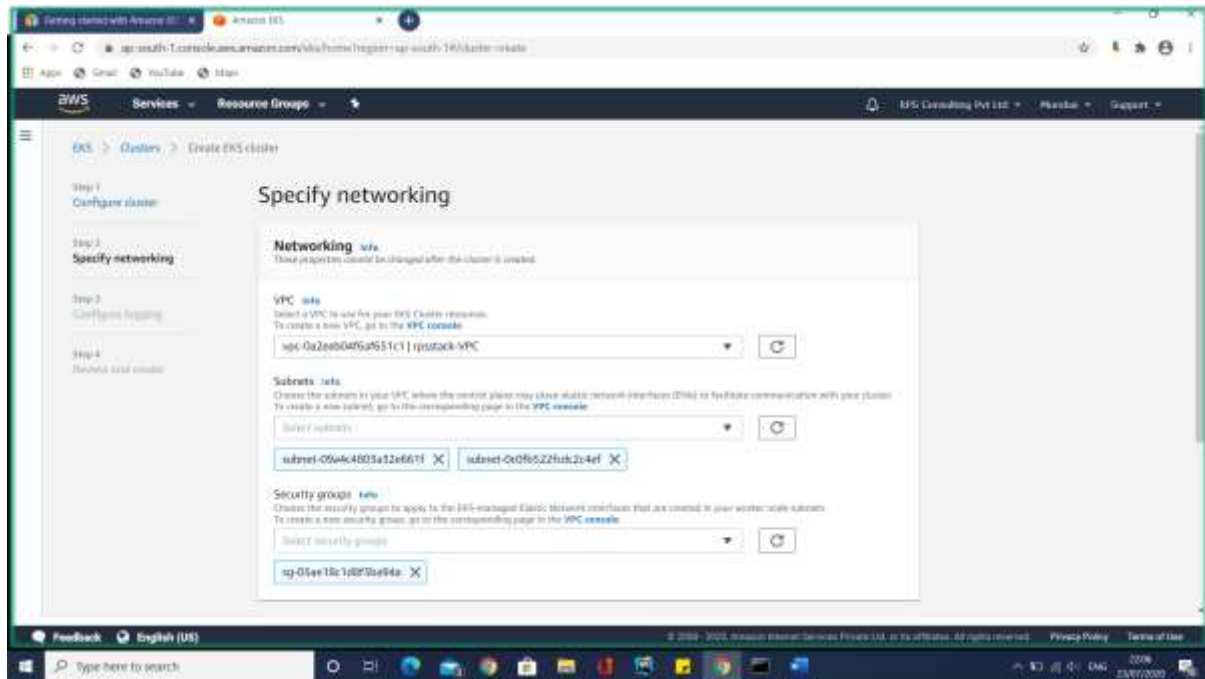


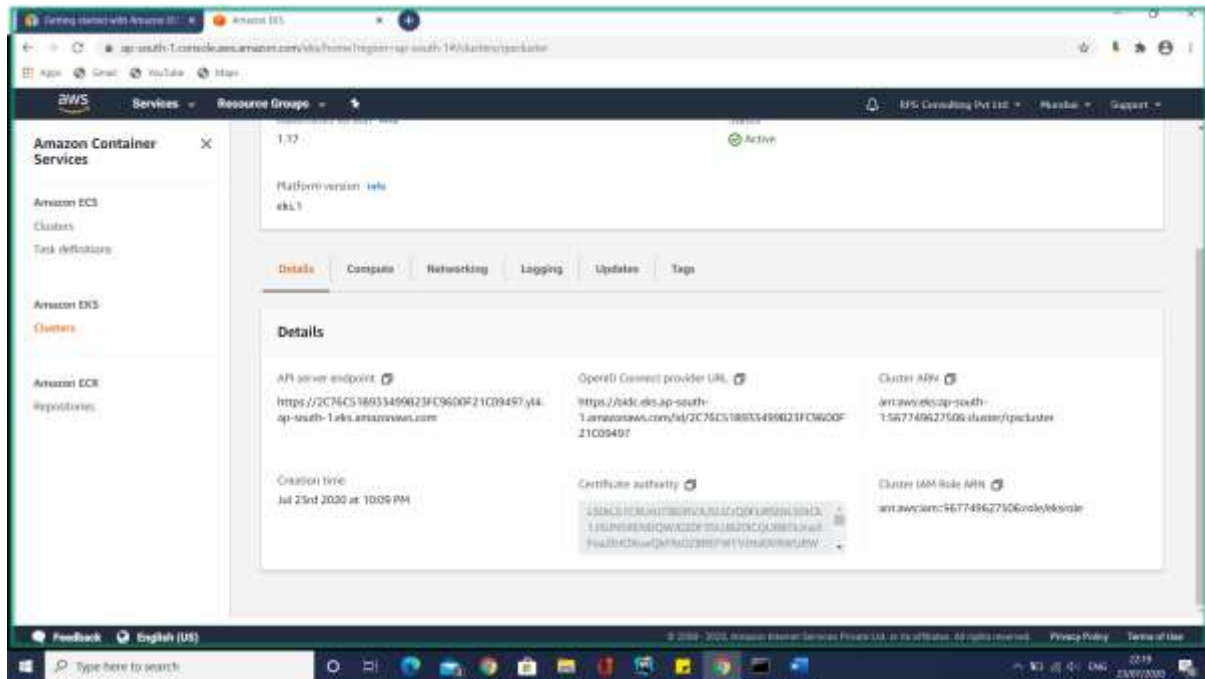


## Configure Cluster









## API server End point

<https://2C76C51B933499B23FC96D0F21C09497.yl4.ap-south-1.eks.amazonaws.com>

Open Id Connect URL

<https://oidc.eks.ap-south-1.amazonaws.com/id/2C76C51B933499B23FC96D0F21C09497>

## Certificate Authority

LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUN5RENDQWJDZ0F3SUJBZ0lCQURBTklna3Foa2IHOXcwQkFRc0ZBREFTVTVNd0VRWURWUWFERXdwcmRXSmwKY201bGRHVnpNQjRYRFJkd01EY3InekUyTkRdZ01sb1hEVE13TURjeU1URTJORFI3TWxvd0ZURVRNkqVHQTFVRQpBeE1LYTNWaVpYSnVaWFJsY3pDQ0FTSXdEUUVKS29aSWh2Y05BUUVCQlFBRGdnRVBBERNDQVfVq2dnRUJBSy9aCkN2dTRCTThIRS9iekZiYnZLTlplcDNXVnJGUxN0cTRDd3BuanlsU1ExekNsZWZhbnTlcmY1k5OUZ1K2JKQ2wKdVp3QjJxcXV4Ymd0d00ycVRPUVOrUmZoR3V2ZGVYMGcyNWtVMmRBMjU2akZWwwYxNjV2Mm50YWVleS9Vd1N6dQo3U3VpZ3RsZExhb3ZsbHRYbEJPaEtUN1dtRHdHM1RKSzEZESEJFaWJWk8zdW5HRHdIRXZKQTZiaG1Rd2FEbTlZuClB3UDVwZjZkdUhtNk9ZRE1EOFBKQmV6T2UrZmUwWDFUbW5tVExUd2tEY3ZCU1lnMVN5MndCcU1xR0tjVS9xYzIKWXRkM0diZ0FT2hMNHZ6RUUpHSXdkRmFHZmcrVEhsWEhBbWdCVnZrQloyOUY2MW1laFZVV3d2ZDg1bzQvRUVBaQpTb2JJZGpjV0RXbXg4UGwzb0R0F3RUFBUyU1qTUNFd0RnWURWUjBQVQVFI0JBUURBZ0trTUE4R0ExVWRFd0VCCj93UUZnQU1CQWY4d0RRWUpLb1pJaHZjTkFRRUxUCUFEZ2dFQkFFWWlnMlBiU1UjQk0M2S05GeUdzM05sUDFqGgKbZFXWwXRYWEvT25CbUz6OWtMU05HTm13VDdFWnptS09RUDVteVZiUnljN3JqMFpja0NLTtBQbk1qTGJmK0tHWPwOWHkwnHcwOGPoTmZoNFdvOTJMc0ltWlFKSkZvUED3dG9MQ3AxWDRIK0xHYmo3THM2aXpSV0FyVGk0Y2dQbTIIClZhb1pQMk9IRndHSjc1RlZ2Q2dJSUVweVZ0bStHUVNNR1Qza01MVm1Tdml6dnlpPcGRFMnlhYU4wYzgvUzExbTMkd1ozc20vQ3JybjNWNkg1VVdsTEcxNjFTSy90bFE2NjVuckIEIdjFTZ

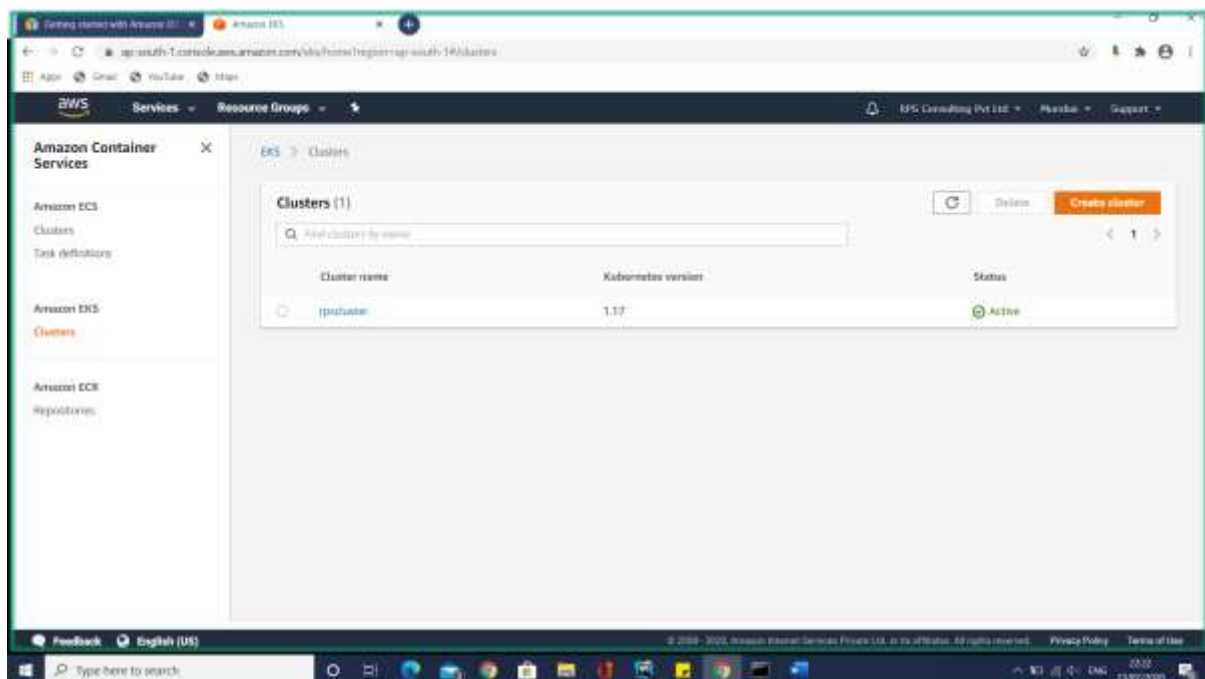
EJOTHpqckdL0V0OHB6dmxERU84UUFnMwpmNDBNSUZ0TVN0emxjRk1PVndwTXAzV0M2VE1uQ3NudEM2VjVtYlM3QUxRQkZxSmw3  
N3BvR1oyWTNORT0KLS0tLS1FTkQgQ0VSVEIGSUNBVEUtLS0tLQo=

## Cluster ARN

arn:aws:eks:ap-south-1:567749627506:cluster/rpscluster

## Iam Role

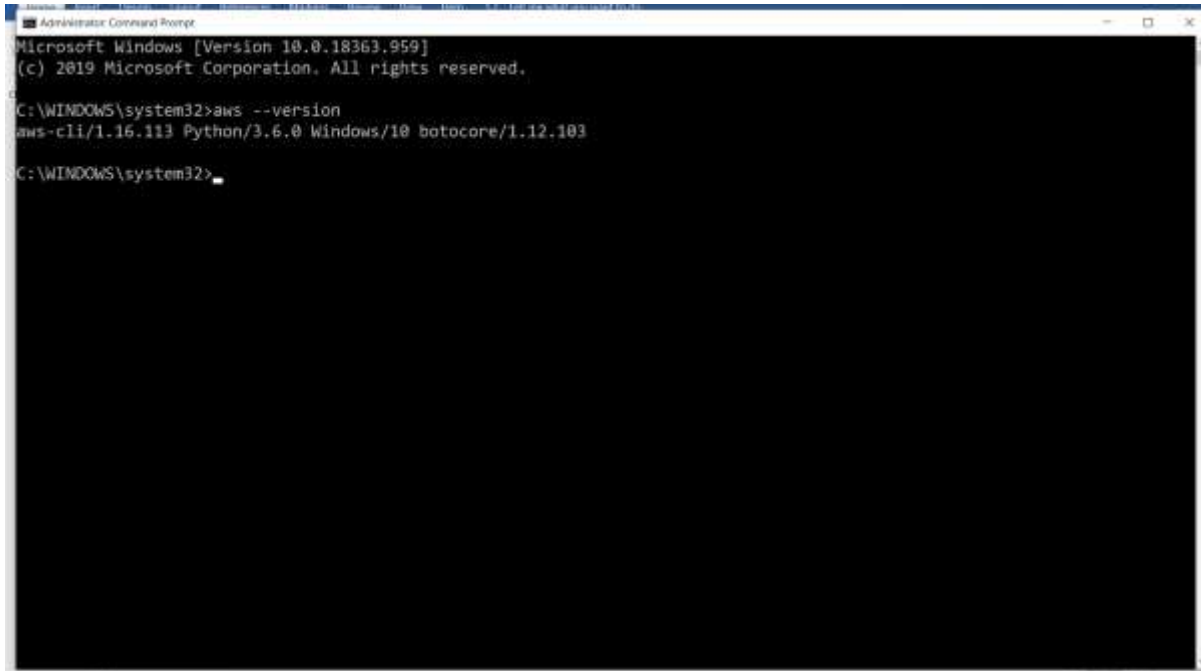
arn:aws:iam::567749627506:role/eksrole



## To install the AWS CLI version 2

If you don't have either version 1.18.97 or later, or version 2.0.30 or later installed, then install the AWS CLI version 2 using the following steps. For other installation options, or to upgrade your currently installed version 2, see [Upgrading the AWS CLI version 2 on Windows](#).

1. Download the AWS CLI MSI installer for Windows (64-bit) at <https://awscli.amazonaws.com/AWSCLIV2.msi>
2. Run the downloaded MSI installer and follow the onscreen instructions. By default, the AWS CLI installs to C:\Program Files\Amazon\AWSCLIV2.



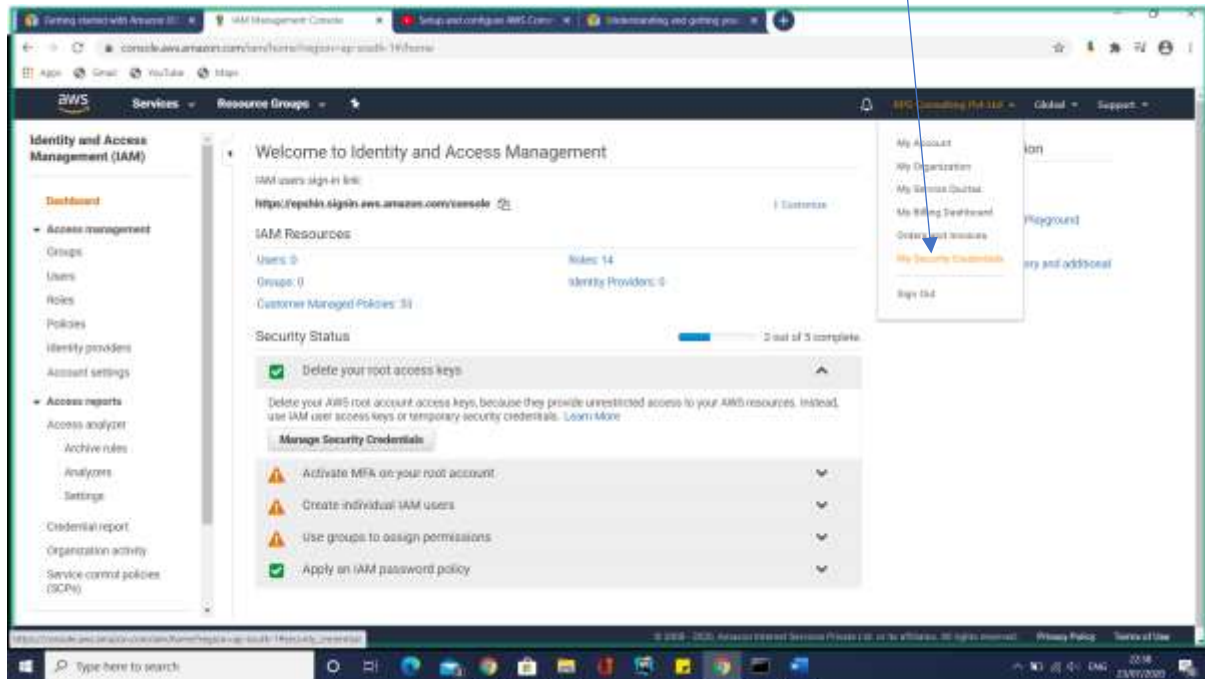
```
Administrator Command Prompt
Microsoft Windows [Version 10.0.18363.959]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>aws --version
aws-cli/1.16.113 Python/3.6.0 Windows/10 botocore/1.12.103

C:\WINDOWS\system32>
```

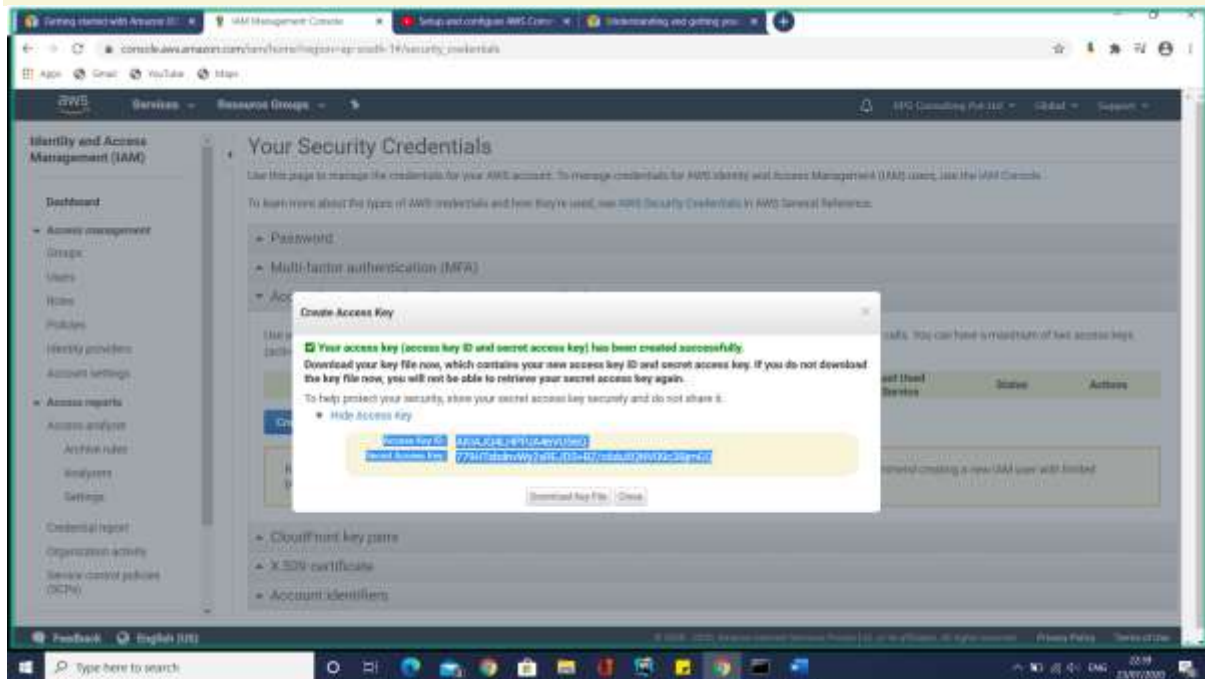
### To create an access key when signed in as the root user

1. Sign in to the AWS Management Console as the root user. For more information, see [Sign in as the root user](#) in the *IAM User Guide*.
2. In the navigation bar on the upper right, choose your account name or number and then choose **My Security Credentials**.
3. Expand the **Access keys (access key ID and secret access key)** section.
4. Choose **Create New Access Key**. If you already have two access keys, this button is disabled.
5. When prompted, choose **Show Access Key** or **Download Key File**. This is your only opportunity to save your secret access key.
6. After you've saved your secret access key in a secure location, chose **Close**.



Access Key ID:  
AKIAJQ4LHPPJA46VU56Q

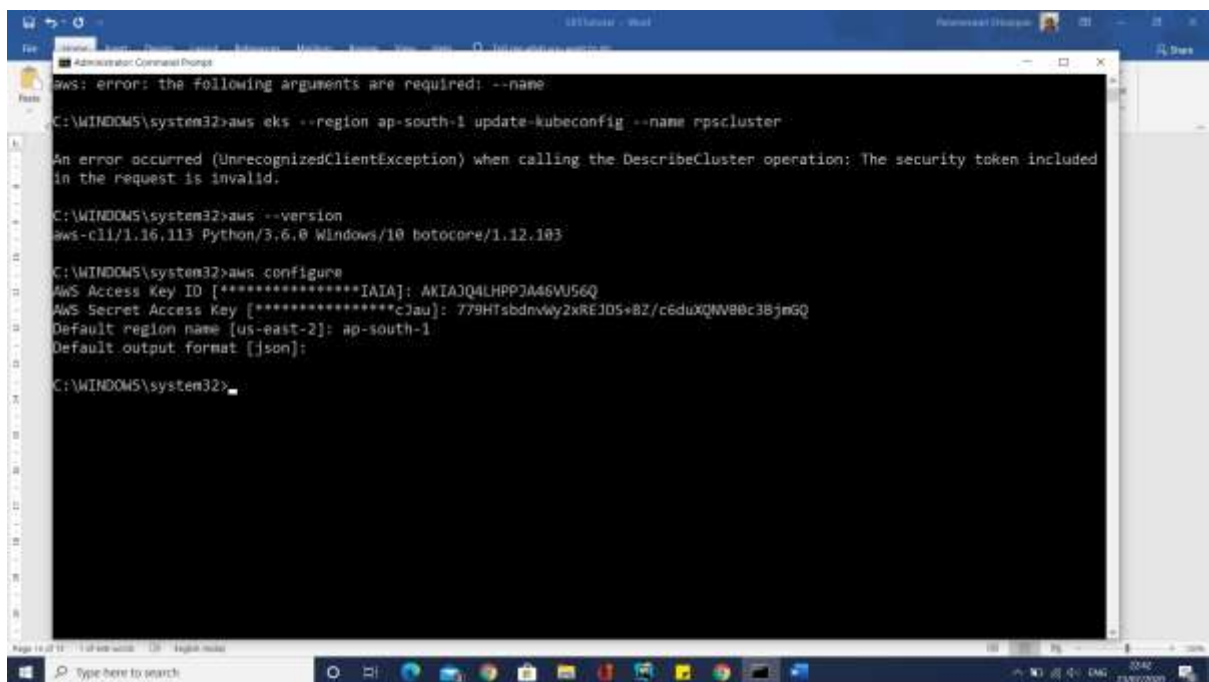
Secret Access Key:  
779HTsbdnvWy2xREJDS+BZ/c6duXQNV00c3BjmGQ



## To create an access key when signed in as an IAM user

1. Sign in to the AWS Management Console as an IAM user. For more information, see [Sign in as an IAM user](#) in the *IAM User Guide*.
2. In the navigation bar on the upper right, choose your user name and then choose **My Security Credentials**.
3. Choose **AWS IAM credentials, Create access key**. If you already have two access keys, the console displays a "Limited exceeded" error.
4. When prompted, choose **Download .csv file** or **Show secret access key**. This is your only opportunity to save your secret access key.
5. After you've saved your secret access key in a secure location, chose **Close**.

## AWS configure



```
aws: error: the following arguments are required: --name
C:\WINDOWS\system32>aws eks --region ap-south-1 update-kubeconfig --name rpscluster

An error occurred (UnrecognizedClientException) when calling the DescribeCluster operation: The security token included
in the request is invalid.

C:\WINDOWS\system32>aws --version
aws-cli/1.16.113 Python/3.6.0 Windows/10 botocore/1.12.103

C:\WINDOWS\system32>aws configure
AWS Access Key ID [*****IAIA]: AKIAJQ4LHPPJA46VU56Q
AWS Secret Access Key [*****cJau]: 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
Default region name [us-east-2]: ap-south-1
Default output format [json]:

C:\WINDOWS\system32>
```

ap-south-1

```
aws eks --region ap-south-1 update-kubeconfig --name rpscluster
```

```
aws: error: the following arguments are required: --name
C:\WINDOWS\system32>aws eks --region ap-south-1 update-kubeconfig --name rpscluster

An error occurred (UnrecognizedClientException) when calling the DescribeCluster operation: The security token included
in the request is invalid.

C:\WINDOWS\system32>aws --version
aws-cli/1.16.113 Python/3.6.8 Windows/10 botocore/1.12.103

C:\WINDOWS\system32>aws configure
AWS Access Key ID [*****IAIA]: AKIAJQ4LHPPJA46VU56Q
AWS Secret Access Key [*****cJau]: 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
Default region name [us-east-2]: ap-south-1
Default output format [json]:

C:\WINDOWS\system32>aws eks --region ap-south-1 update-kubeconfig --name rpscluster
Added new context arn:aws:eks:ap-south-1:567749627506:cluster/rpscluster to C:\Users\Balasubramanian\.kube\config

C:\WINDOWS\system32>
```

We can now test our configurations using the kubectl get svc command:

Kubectl get svc

```
aws: error: the following arguments are required: --name
C:\WINDOWS\system32>aws eks --region ap-south-1 update-kubeconfig --name rpscluster

An error occurred (UnrecognizedClientException) when calling the DescribeCluster operation: The security token included
in the request is invalid.

C:\WINDOWS\system32>aws --version
aws-cli/1.16.113 Python/3.6.8 Windows/10 botocore/1.12.103

C:\WINDOWS\system32>aws configure
AWS Access Key ID [*****IAIA]: AKIAJQ4LHPPJA46VU56Q
AWS Secret Access Key [*****cJau]: 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
Default region name [us-east-2]: ap-south-1
Default output format [json]:

C:\WINDOWS\system32>aws eks --region ap-south-1 update-kubeconfig --name rpscluster
Added new context arn:aws:eks:ap-south-1:567749627506:cluster/rpscluster to C:\Users\Balasubramanian\.kube\config

C:\WINDOWS\system32>kubectl get svc
NAME         TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
kubernetes   ClusterIP   10.100.0.1   <none>        443/TCP    29m

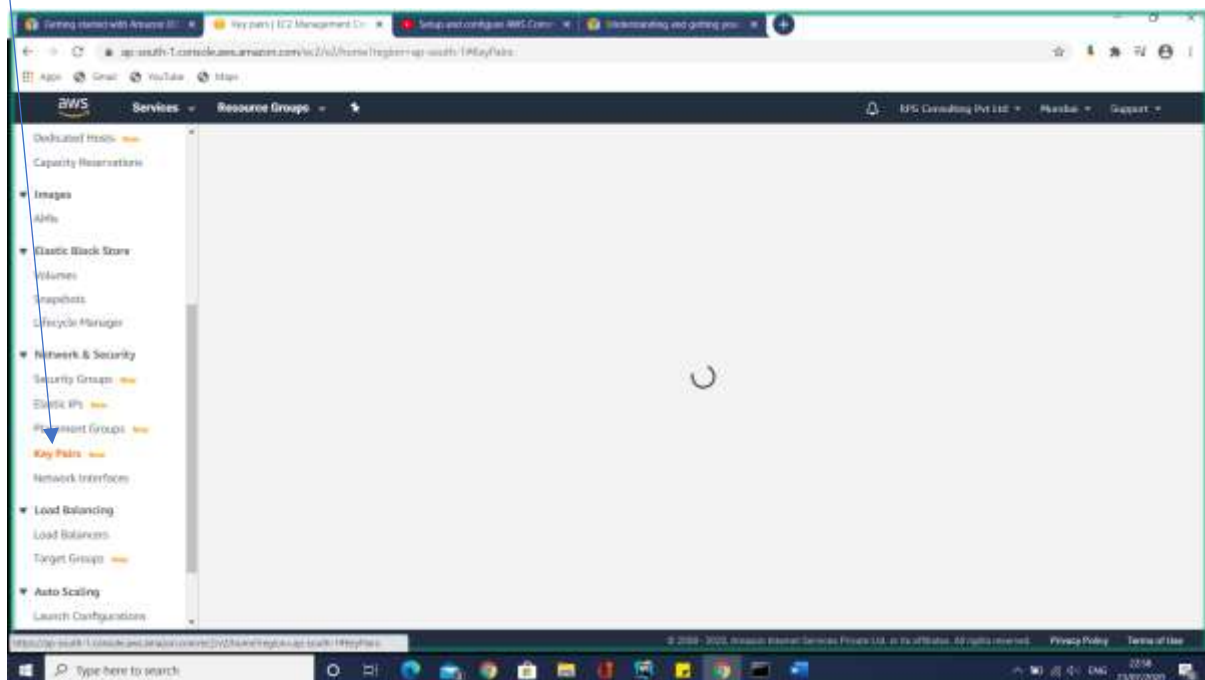
C:\WINDOWS\system32>
```

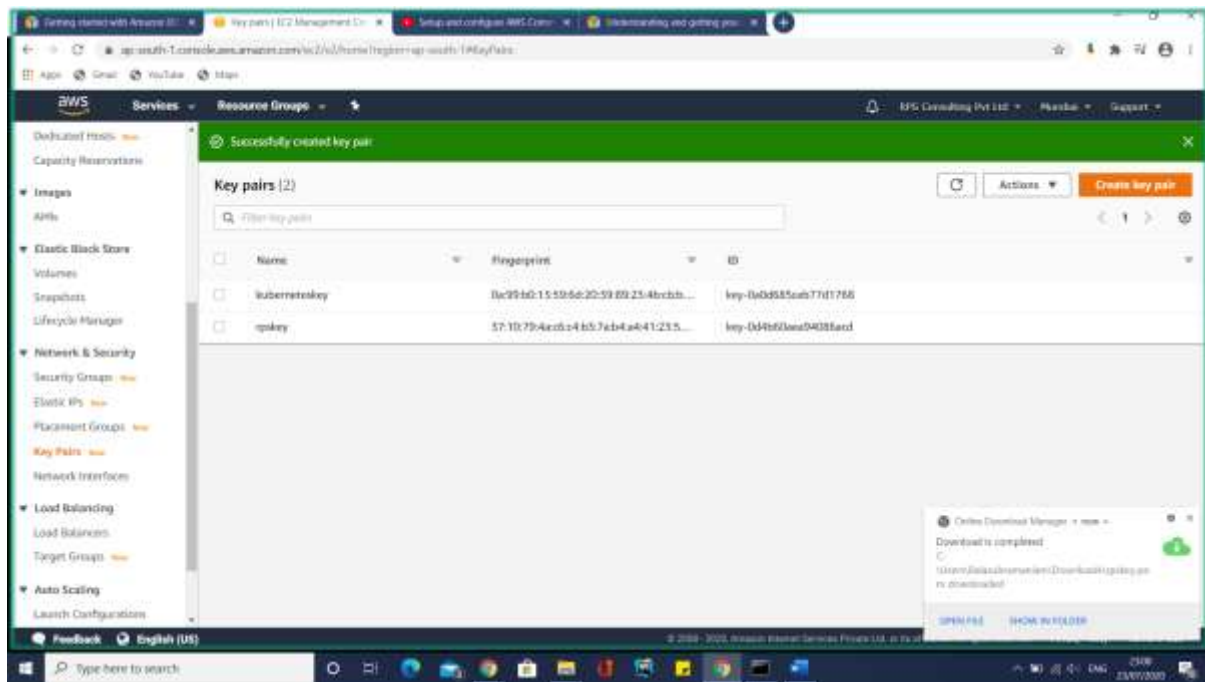
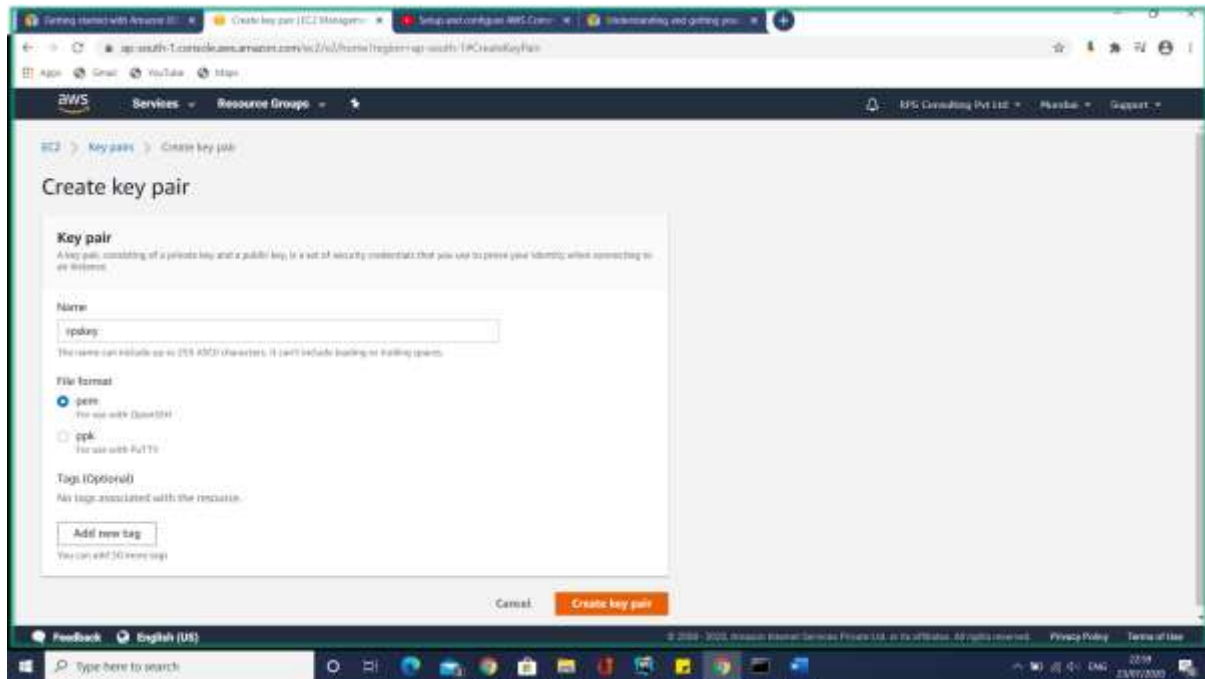


## Step 4

### Create Key Pair using Console

- Login to AWS Management Console and choose an AWS Region to create a key pair.
- Click on services and find EC2 under Compute services.
- Go to Network & Security > Key Pairs, and then choose Create Key Pair.





# Step 5: Launching Kubernetes worker nodes

Now that we've set up our cluster and VPC networking, we can now launch Kubernetes worker nodes. To do this, we will again use a CloudFormation template.

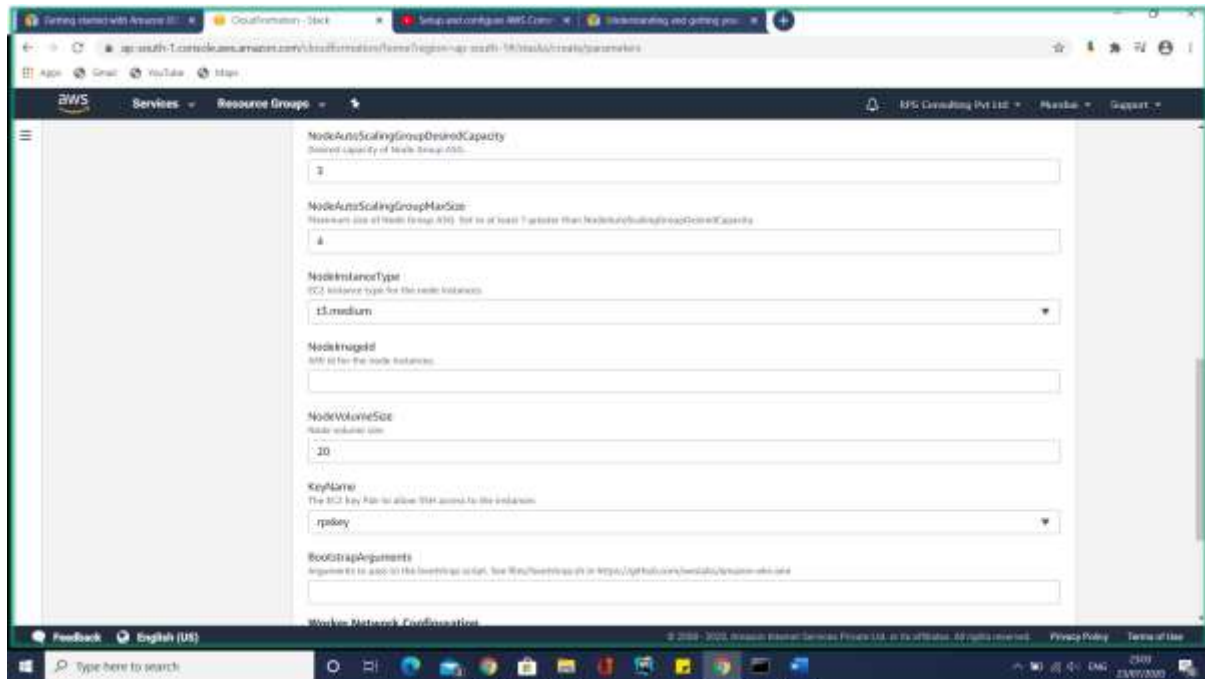
Open CloudFormation, click **Create Stack**, and this time use the following template URL:

<https://amazon-eks.s3-us-west-2.amazonaws.com/cloudformation/2019-01-09/amazon-eks-nodegroup.yaml>

- **ClusterName** – the name of your Kubernetes cluster (e.g. demo)
- **ClusterControlPlaneSecurityGroup** – the same security group you used for creating the cluster in previous step.
- **NodeGroupName** – a name for your node group.
- **NodeAutoScalingGroupMinSize** – leave as-is. The minimum number of nodes that your worker node Auto Scaling group can scale to.
- **NodeAutoScalingGroupDesiredCapacity** – leave as-is. The desired number of nodes to scale to when your stack is created.
- **NodeAutoScalingGroupMaxSize** – leave as-is. The maximum number of nodes that your worker node Auto Scaling group can scale out to.

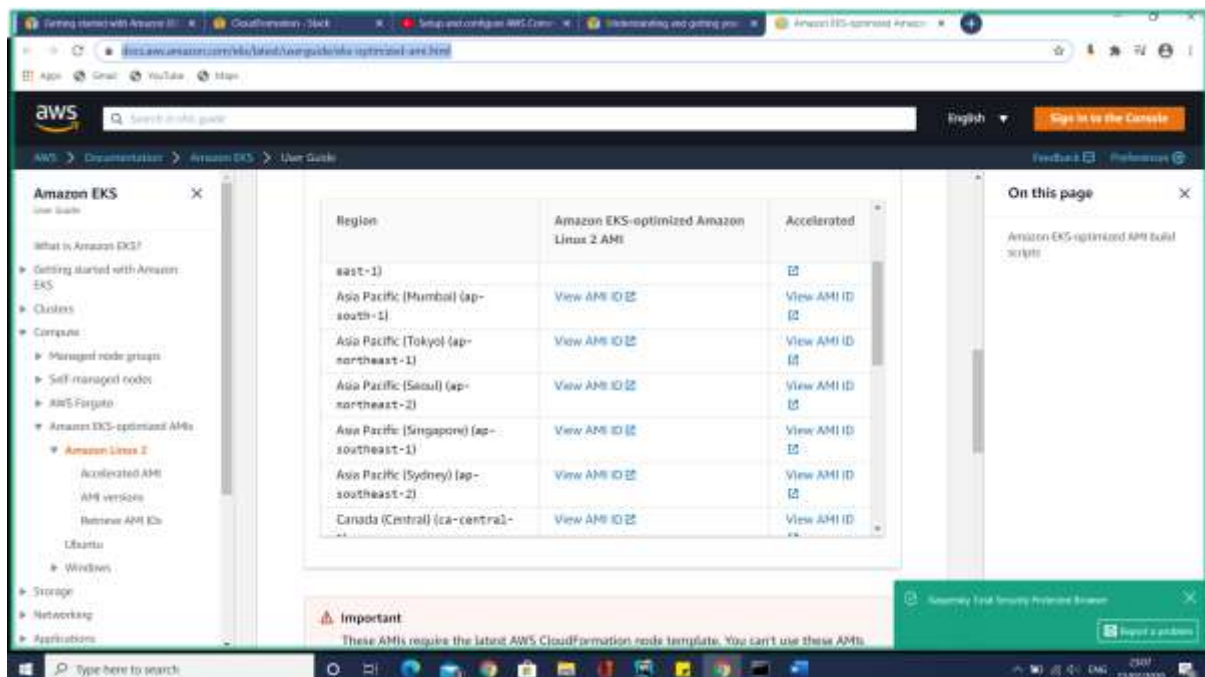
- **NodeInstanceType** – leave as-is. The instance type used for the worker nodes.
- **NodeImageId** – the Amazon EKS worker node AMI ID for the region you're using. For us-east-1, for example: ami-0c5b63ec54dd3fc38
- **KeyName** – the name of an Amazon EC2 SSH key pair for connecting with the worker nodes once they launch.
- **BootstrapArguments** – leave empty. This field can be used to pass optional arguments to the worker nodes bootstrap script.
- **VpcId** – enter the ID of the VPC you created in Step 2 above.
- **Subnets** – select the three subnets you created in Step 2 above.

The screenshot shows the AWS CloudFormation console with the 'Specify stack details' step selected. The 'Stack name' field is filled with 'workstack'. Under the 'Parameters' section, the 'EKS Cluster' parameters are visible: 'ClusterName' is 'rpstacker' and 'ClusterControlPlaneSecurityGroup' is 'rpstacker-ClusterControlPlaneSecurityGroup-f8b73a6b7e4c5c-pg-05a6c8cld8f3u94a'. The 'Worker Node Configuration' section is partially visible at the bottom.



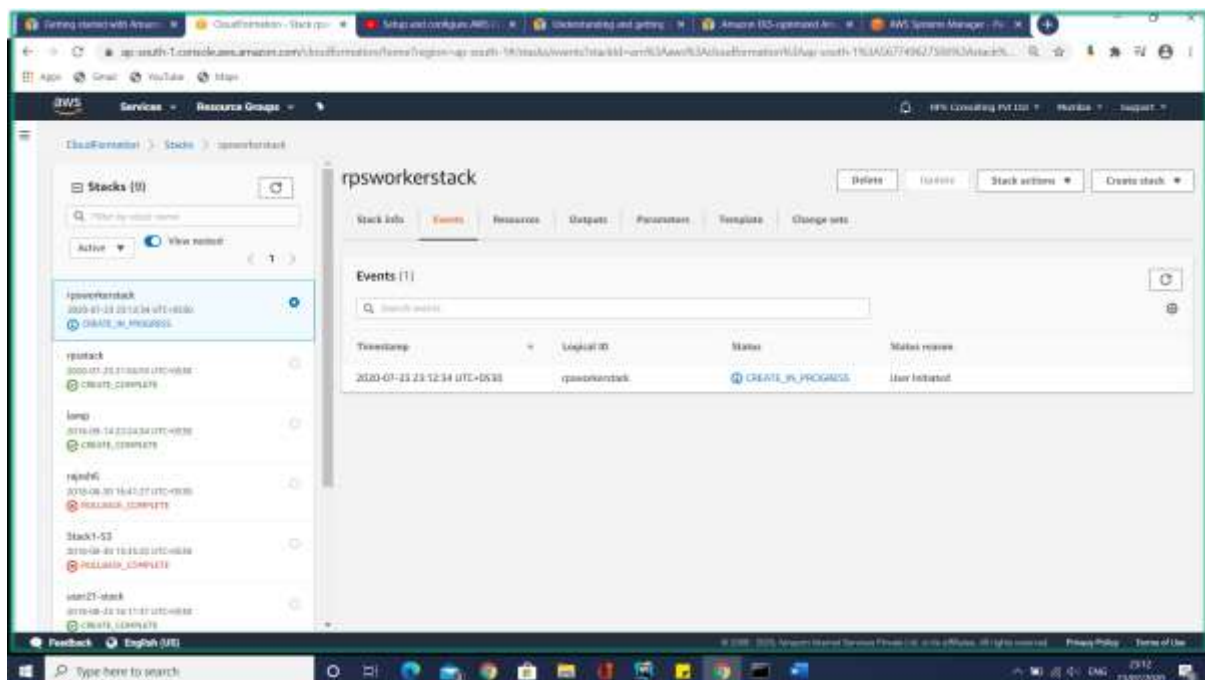
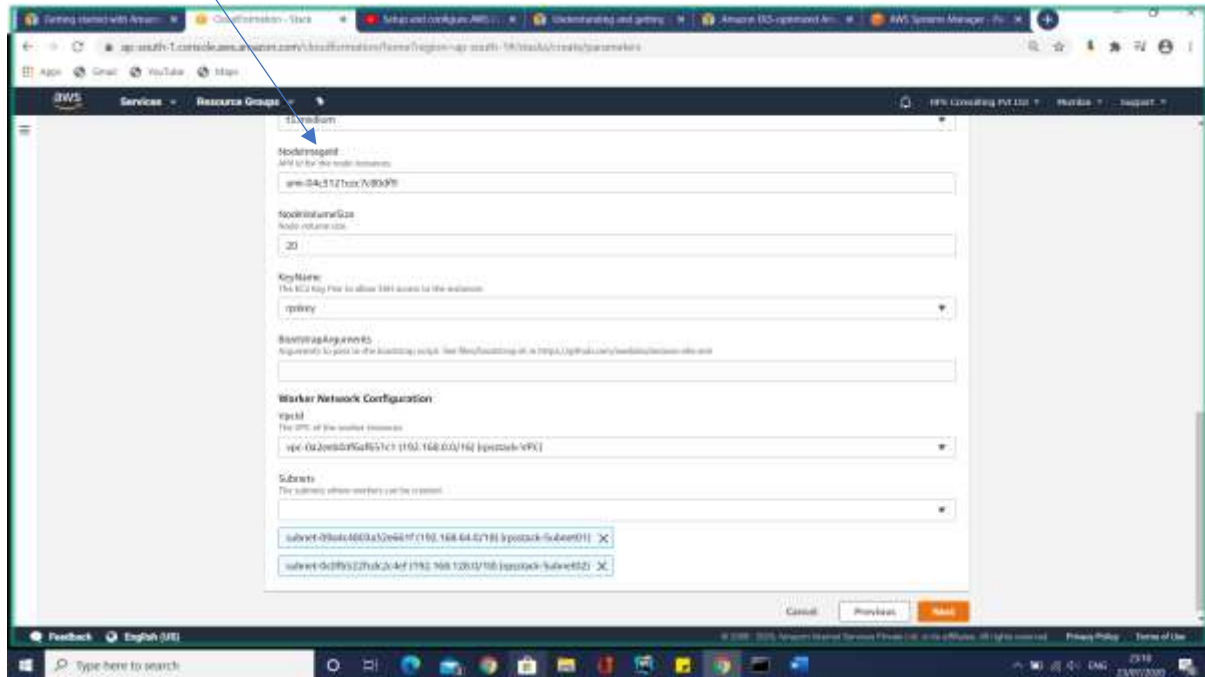
Go to the link to view AMI Image Id

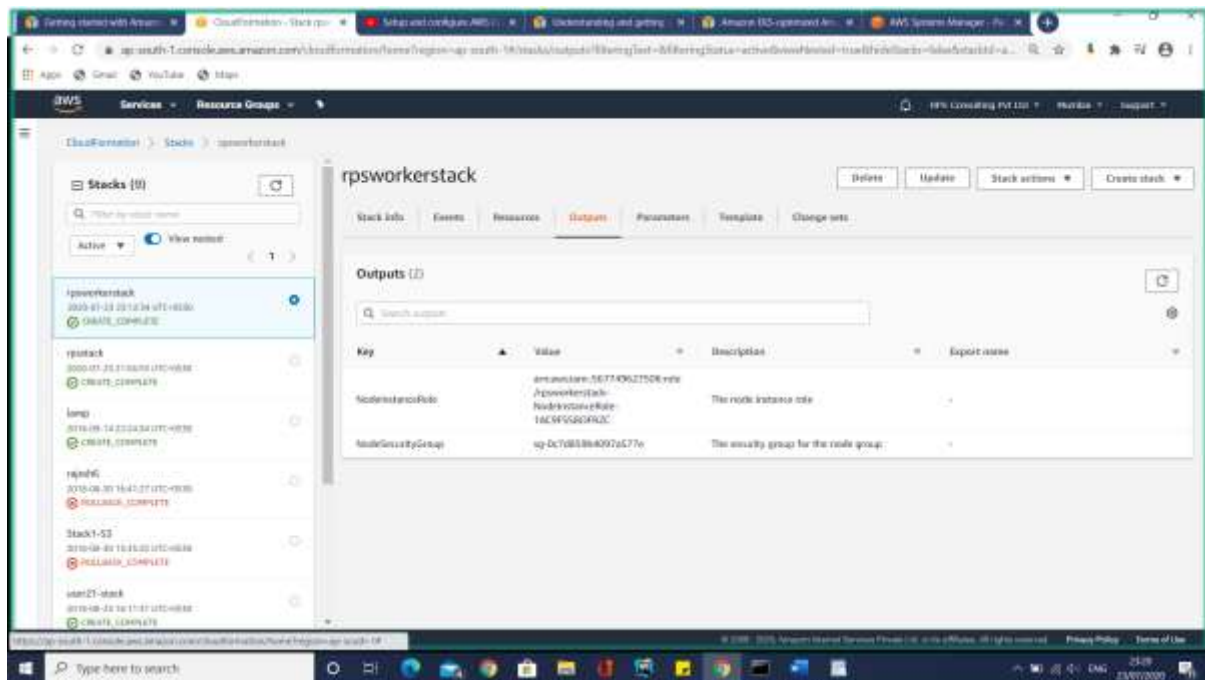
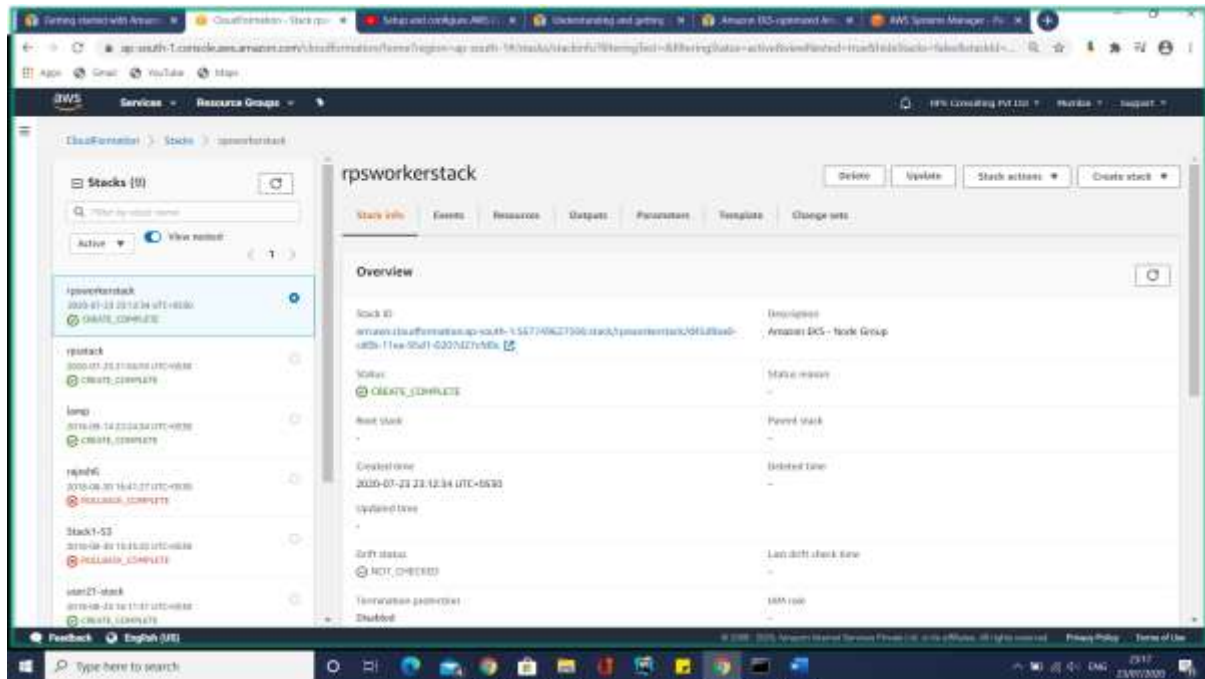
<https://docs.aws.amazon.com/eks/latest/userguide/eks-optimized-ami.html>



AMI ID for asia pacific south

ami-04c3121cec7c80df9





NodeInstanceRole

arn:aws:iam::567749627506:role/rpsworkerstack-NodeInstanceRole-1AC9FSSBOFRZC

NodeSecurityGroup

sg-0c7d859b4097a577e



Download

```
https://amazon-eks.s3-us-west-2.amazonaws.com/cloudformation/2019-01-09/
aws-auth-cm.yaml
```

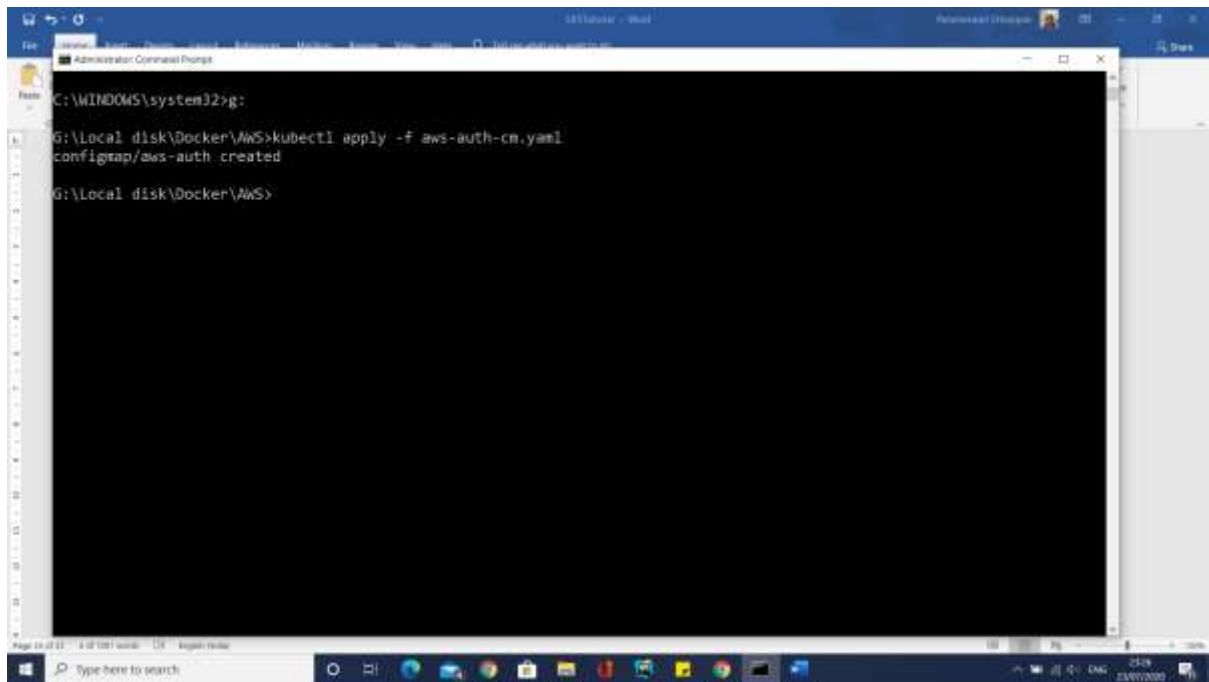
Open the yml file

Open the file and replace the rolearn with the ARN of the *NodeInstanceRole* created above:

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: aws-auth
  namespace: kube-system
data:
  mapRoles: |
    - rolearn: <ARN of instance role>
      username: system:node:{{EC2PrivateDNSName}}
      groups:
        - system:bootstrappers
        - system:nodes
```

Go to g:\local disk\docker\aws

```
kubectl apply -f aws-auth-cm.yaml
```



Use kubectl to check on the status of your worker nodes:

```
kubectl get nodes -watch
```

```
kubectl get nodes
```

## Step 6: Installing a demo app on Kubernetes

```
Administrator Command Prompt - kubectl /bin/bash --rm --image=mysql --restart=Never mysql-client --mysql -h mysql -ppassword
C:\WINDOWS\system32>cd F:\virtusausjune2020\appointmentdocker
C:\WINDOWS\system32>f:
F:\virtusausjune2020\appointmentdocker>kubectl apply -f mysql-pv.yaml
persistentvolume/mysql-pv-volume created
persistentvolumeclaim/mysql-pv-claim created
F:\virtusausjune2020\appointmentdocker>kubectl apply -f mysql-deployment.yaml
service/mysql created
deployment.apps/mysql created
F:\virtusausjune2020\appointmentdocker>kubectl get all
NAME                                READY    STATUS              RESTARTS   AGE
pod/mysql-78dc9c6b94-572pv          0/1      ContainerCreating   0           13s
NAME                                TYPE     CLUSTER-IP    EXTERNAL-IP  PORT(S)    AGE
service/kubernetes                  ClusterIP 10.100.0.1    <none>       443/TCP    75m
service/mysql                       ClusterIP None         <none>       3306/TCP   13s
NAME                                READY    UP-TO-DATE    AVAILABLE   AGE
deployment.apps/mysql              0/1      1              0           14s
NAME                                DESIRED   CURRENT   READY   AGE
replicaset.apps/mysql-78dc9c6b94   1         1         0       14s
F:\virtusausjune2020\appointmentdocker>kubectl get services
NAME      TYPE     CLUSTER-IP    EXTERNAL-IP  PORT(S)    AGE
kubernetes ClusterIP 10.100.0.1    <none>       443/TCP    75m
mysql     ClusterIP None         <none>       3306/TCP   42s
F:\virtusausjune2020\appointmentdocker>kubectl run -it --rm --image=mysql --restart=Never mysql-client -- mysql -h mysql -ppassword
If you don't see a command prompt, try pressing enter.
```

goto appointmenntdocker project in f:\virtusausjune

kubectl apply -f mysql-pv.yaml

kubectl apply -f mysql-deployment.yaml

kubectl get all

kubectl get services

kubectl describe deployment mysql

kubectl get pods -l app=mysql

kubectl describe pvc mysql-pv-claim

kubectl logs mysql-78dc9c6b94-vfgtq

kubectl get services

get ipaddress

kubectl run -it --rm --image=mysql --restart=Never mysql-client -- mysql -h mysql -ppassword

(don't change password it's ppassword)

create database virtusausappointmentdb;

show databases;

=====

Creating the secrets

kubectrl create secret generic mysql-root-pass --from-literal=password=password

kubectrl create secret generic mysql-user-pass --from-literal=username=demo\_user --from-literal=password=demo\_pass

kubectrl create secret generic mysql-db-url --from-literal=database=virtusausappointmentdb --from-literal=url='jdbc:mysql://mysql:3306/virtusausappointmentdb?useSSL=false

kubectrl get secrets

kubectrl describe secrets mysql-user-pass

kubectrl get persistentvolumes

=====

kubectrl create deployment demo --image=appointmentapp/v1 --dry-run -o=yaml > deployment.yaml

-----

kubectrl create service clusterip demo --tcp=8070:8070 --dry-run -o=yaml >> deployment.yaml

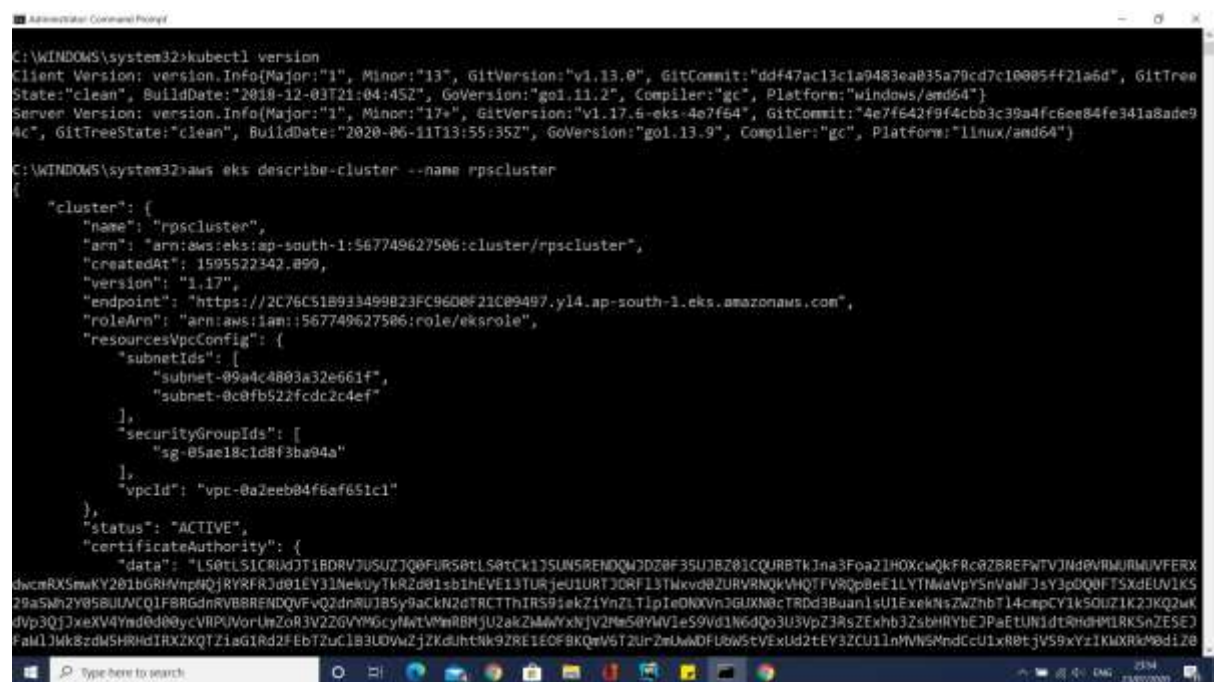
=====

```
kubectl apply -f deployment_v2.yaml
```

```
kubectl get pods
```

```
kubectl get services
```

```
kubectl port-forward service/demo 8070:8070
```



```
C:\WINDOWS\system32>kubectl version
Client Version: version.Info{Major:"1", Minor:"13", GitVersion:"v1.13.0", GitCommit:"ddf47ac13c1a9483ea035a79cd7c10005ff21a6d", GitTree
State:"clean", BuildDate:"2018-12-03T21:04:45Z", GoVersion:"go1.11.2", Compiler:"gc", Platform:"windows/amd64"}
Server Version: version.Info{Major:"1", Minor:"17", GitVersion:"v1.17.6-eks-4e7f64", GitCommit:"4e7f642f9f4cbb3c39a4fc6ee84fe341a8ade9
4c", GitTreeState:"clean", BuildDate:"2020-06-11T13:55:35Z", GoVersion:"go1.13.9", Compiler:"gc", Platform:"linux/amd64"}

C:\WINDOWS\system32>aws eks describe-cluster --name rpscluster
{
  "cluster": {
    "name": "rpscluster",
    "arn": "arn:aws:eks:ap-south-1:567749627506:cluster/rpscluster",
    "createdAt": 1595522342.099,
    "version": "1.17",
    "endpoint": "https://2c76c51b933499823fc96d0f21c09497.y14.ap-south-1.eks.amazonaws.com",
    "roleArn": "arn:aws:iam:567749627506:role/eksrole",
    "resourcesVpcConfig": {
      "subnetIds": [
        "subnet-09a4c4803a32e661f",
        "subnet-0c8fb522fcd2c4ef"
      ],
      "securityGroupIds": [
        "sg-05ae18c1d8f3ba94a"
      ],
      "vpcId": "vpc-0a2eeb04f6af651c1"
    },
    "status": "ACTIVE",
    "certificateAuthority": {
      "data": "LS0tLS1CRUdJTT1BDRVJUSUZJQ0FUR50tLS0tCk1JLUN5RENDQWJZD20F3SUJBZ01CQURBTklna3Foa2lHOXcwQkFrc0ZBREpWTVJmd0VWdWJWUUVFERX
dmcnRXSmakY281bGRhVnpAQjRVRFRjZ01EV31NekuY1kR2d01sb1hEVE13TURjeU1URTJ0RFl1THkvd0ZURVBNQkVhQ0TFV9Qp8eE1LYTNMaVpY5nVamFJ4Y3p0Q0FTSxdEUN1KS
29a5Wh2Y05BUUVCQ1FBRGdnrVBRRENDQVFvQ2dnRUJBSy9aCKN2dTRCTThIRS9iekZiYnZLTlpIeONXVn3GUXN0cTRDd3Buan1sU1ExekNsZkZhbT14cnpCY1k5OUZlK2JkQ2wK
dVp3QjJ3eXV4Ynd0d0YcVlRPUVovUmZoR3V2ZGVYMGcyMmVWmRBRHjU2akZHMWYXhjV2M50YmV1eS9Vd1N6dQo3U3VpZ3RsZExhb3ZsbHRVbEJPaEtUN1dtRmd0M1RKSnZESEJ
Fakl1Jmk8zdMSHRHdIRXZKQTZ1aG1Rd2FbE7Zuc1B3UDVwZjZkdUhtNk9ZRE1EOFBKQmV6T2Ur2mUwADFUbWStVEXld2tEY3ZCU11nMVNSMndCcU1xR8tjV59xYz1KMXRkM0diZ0
"
```

```
aws eks describe-cluster --name rpscluster
```

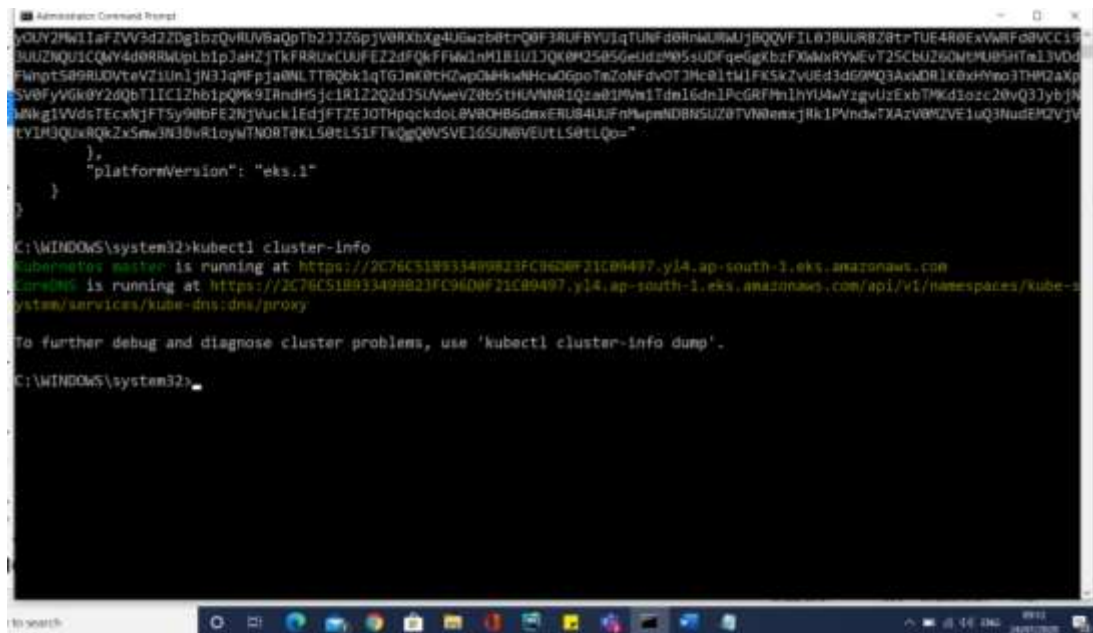
```
CLI commands
```

## To create Cluster

```
aws eks create-cluster --name prod \  
  
--role-arn arn:aws:iam::012345678910:role/eks-service-role-AWSServiceRoleForAmazonEKS-J7ONKE3BQ4PI \  
  
--resources-vpc-config subnetIds=subnet-6782e71e,subnet-e7e761ac,securityGroupIds=sg-6979fe18
```

## To Delete Cluster

```
aws eks delete-cluster --name devel
```



```
SV0fYVGA0V2dQ0T11C1Zhd1pQK9I8nd85jc1R122Q2d35Uvew20b5t0Uv0R1Qz0I1P0m1Tde16dn1Pc6RfPn1jV14wYzgVzEsb7Pkd10zc28vQ3Jyb3M...
    },
    "platformVersion": "eks.1"
  }
}

C:\WINDOWS\system32>kubectl cluster-info
Kubernetes master is running at https://2C76C518933499823FC96D0F21C09497.y14.ap-south-1.eks.amazonaws.com
CoreDNS is running at https://2C76C518933499823FC96D0F21C09497.y14.ap-south-1.eks.amazonaws.com/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

C:\WINDOWS\system32>kubectl cluster-info
Kubernetes master is running at https://2C76C518933499823FC96D0F21C09497.y14.ap-south-1.eks.amazonaws.com
CoreDNS is running at https://2C76C518933499823FC96D0F21C09497.y14.ap-south-1.eks.amazonaws.com/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

C:\WINDOWS\system32>
```

To Analyse cluster dump

'kubectl cluster-info dump

Dashboard

kubectl apply -f <https://github.com/kubernetes-sigs/metrics-server/releases/download/v0.3.6/components.yaml>

kubectl get deployment metrics-server -n kube-system

kubectl apply -f <https://raw.githubusercontent.com/kubernetes/dashboard/v2.0.0-beta8/aio/deploy/recommended.yaml>

kubectl apply -f eks-admin-service-account.yaml



```
kubectl -n kube-system describe secret $(kubectl -n kube-system get secret  
| grep eks-admin | awk '{print $1}')
```