Kubernetes Task-2

Task Description:

Create the K8s EKS, further you have to do the deployment of the Nginx application and access the application outside the cluster.

Techstacks needs to be used :
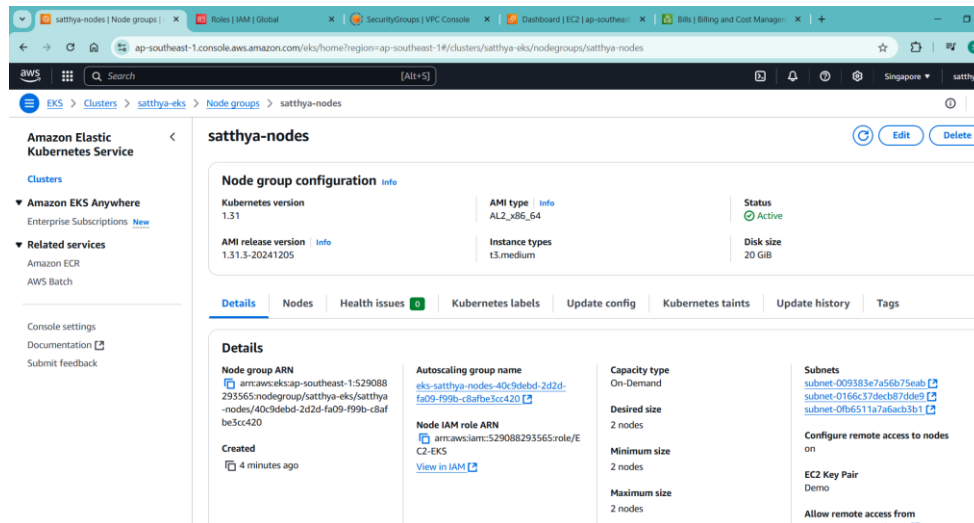
- AWS EKS
- EKSCtl
- Kubectl

Step1 : Create Cluster

- ❖ Click create cluster.
- ❖ Enter cluster name.
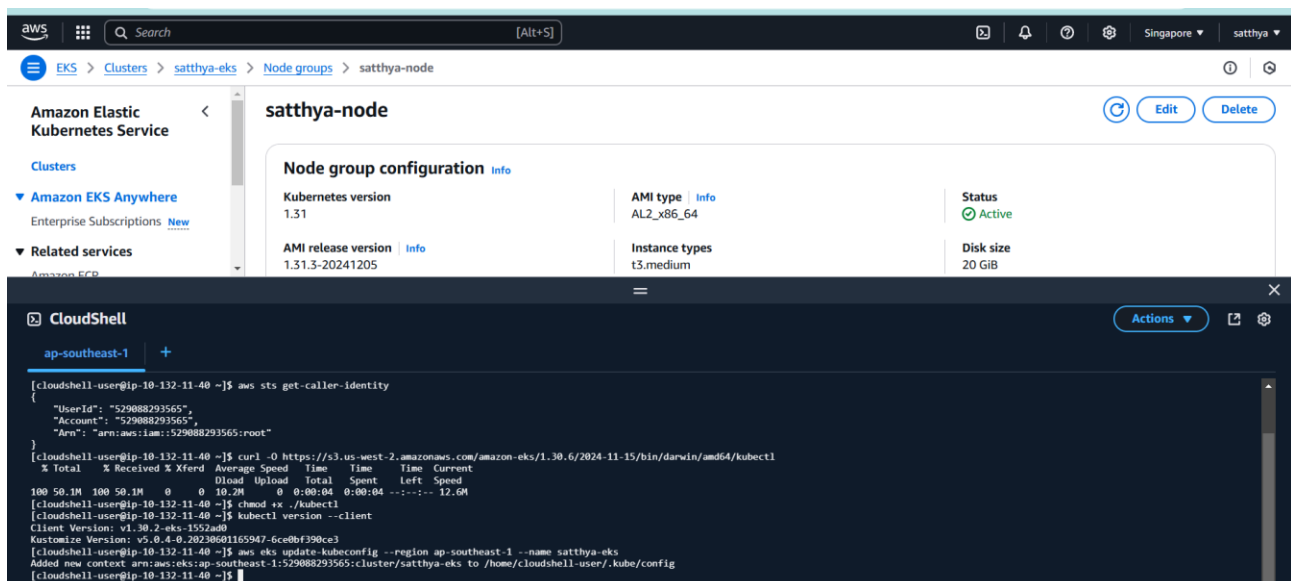- ❖ Select Kubernetes version.
- ❖ Provide correct Role.
- ❖ Choose VPC.

Step2 : Set Up Worker Nodes

- ❖ Add Node Group
- ❖ Provide name for the node group
- ❖ Select the IAM role
- ❖ Select the instance type for worker nodes
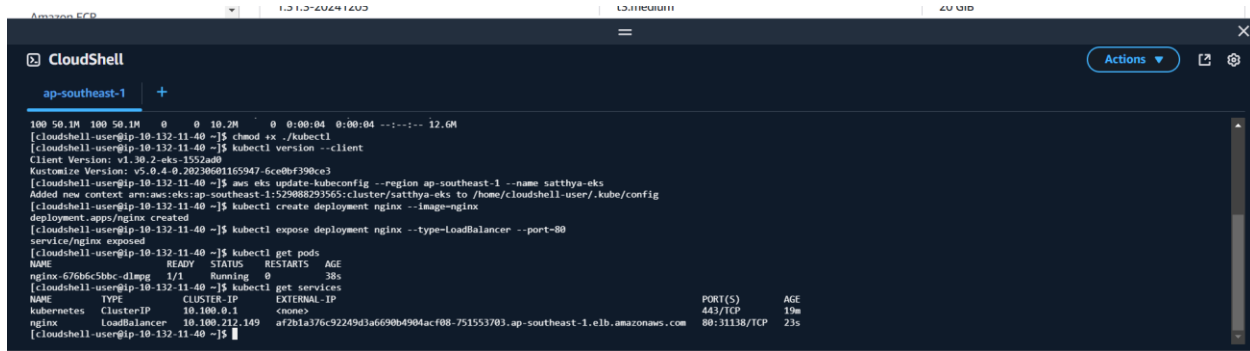- ❖ Define scaling options

Step3 : Configure kubectl to connect to the cluster

- ❖ aws eks update-kubeconfig --region ap-southeast-1 --name satthya-eks

Step4 : Deploy the Nginx Application

- ❖ kubectl create deployment nginx --image=nginx
- ❖ kubectl expose deployment nginx --type=LoadBalancer --port=80
- ❖ kubectl get pods
- ❖ kubectl get services

- ❖ af2b1a376c92249d3a6690b4904acf08-751553703.ap-southeast-1.elb.amazonaws.com

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.