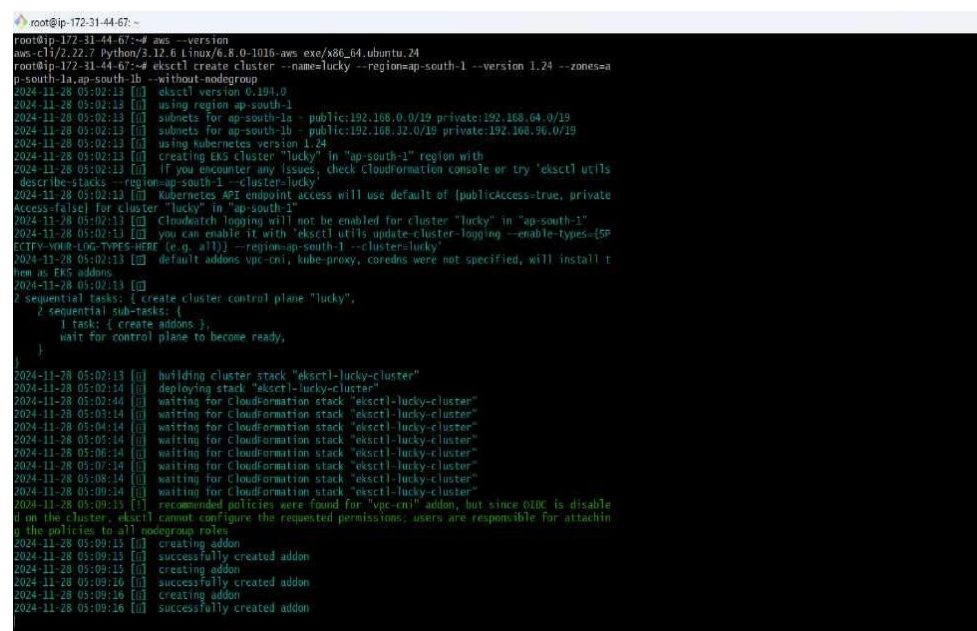
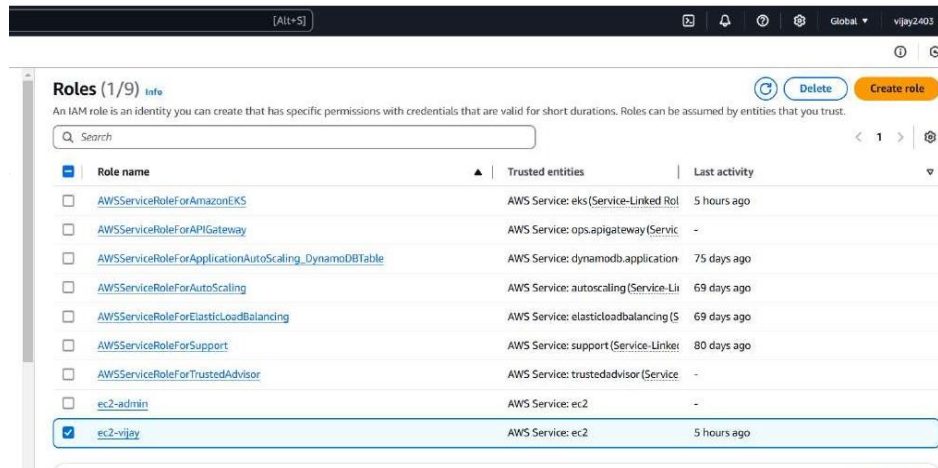
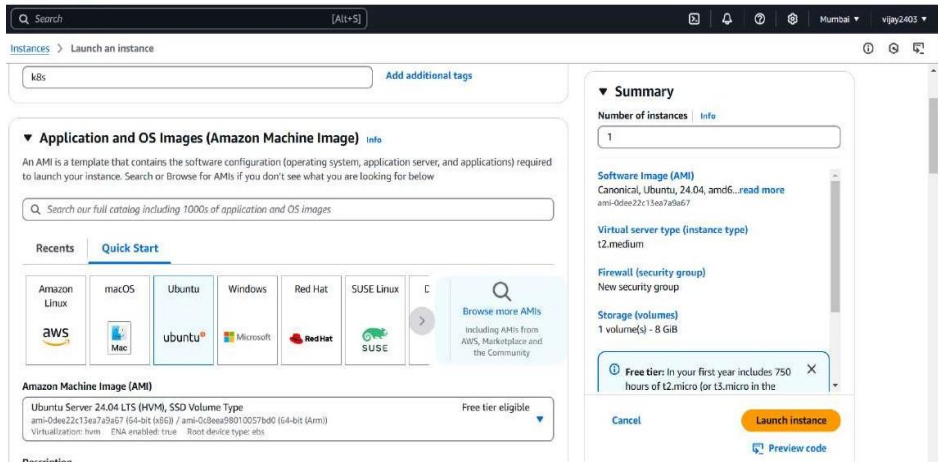


Deploy a simple web application(nginx) on Kubernetes



- Firstly we Install the aws-cli version
- same as to Insatl the eksctl version and kubectl version

```

root@ip-172-31-42-14: ~
root@ip-172-31-42-14:~# aws eks update-kubeconfig --region ap-southeast-1 --name vijay2403
An error occurred (ResourceNotFoundException) when calling the DescribeCluster operation: No cluster found for name: vijay2403.
root@ip-172-31-42-14:~# aws eks update-kubeconfig --region ap-south-1 --name vijay2403
Added new context arn:aws:eks:ap-south-1:471112738908:cluster/vijay2403 to /root/.kube/config
root@ip-172-31-42-14:~#

```

```

root@ip-172-31-42-14: ~
root@ip-172-31-42-14:~# aws eks update-kubeconfig --region ap-southeast-1 --name vijay2403

```

[Alt+S]
Mumbai
vijay2403

Introducing the new Hooks experience and capabilities
The Hooks' new console workflow simplifies how you author your Hooks by using Lambda functions or Guard domain-specific language (DSL).
You can also learn more about the expanded evaluation targets.
View Hooks overview

Stacks (3)
Delete
Update
Stack actions
Create stack

Filter status
Active
View nested
1

Stack name	Status	Created time	Description
eksctl-vijay2403-v-cluster	CREATE_COMPLETE	2024-11-28 13:14:21 UTC+0530	EKS cluster (dedicated VPC: true, dedicated IAM: true) [created and managed by eksctl]
eksctl-lucky-nodegroup-jawan-ng-public1	CREATE_COMPLETE	2024-11-28 10:52:50 UTC+0530	EKS Managed Nodes (SSH access: true) [created by eksctl]
eksctl-lucky-cluster	CREATE_COMPLETE	2024-11-28 10:32:13 UTC+0530	EKS cluster (dedicated VPC: true, dedicated IAM: true) [created and managed by eksctl]

```
root@ip-172-31-44-67: ~  
root@ip-172-31-44-67:~# vi service.yaml  
root@ip-172-31-44-67:~# kubectl create -f service.yaml  
service/nginx-service created  
root@ip-172-31-44-67:~#
```

```
root@ip-172-31-44-67: ~  
root@ip-172-31-44-67:~# kubectl get secrets  
NAME      TYPE      DATA      AGE  
my-secret  Opaque    2           2m19s  
root@ip-172-31-44-67:~# kubectl get svc  
NAME      TYPE      CLUSTER-IP      EXTERNAL-IP      PORT(S)      AGE  
kubernetes  ClusterIP  10.100.0.1      <none>           443/TCP      74m  
root@ip-172-31-44-67:~# vi deployment.yaml  
root@ip-172-31-44-67:~# kubectl create -f deployment.yaml  
deployment.apps/nginx-server created  
root@ip-172-31-44-67:~#
```

```
root@ip-172-31-44-67: ~  
root@ip-172-31-44-67:~# kubectl get secrets  
NAME      TYPE      DATA      AGE  
my-secret  Opaque    2           2m19s  
root@ip-172-31-44-67:~# kubectl get svc  
NAME      TYPE      CLUSTER-IP      EXTERNAL-IP      PORT(S)      AGE  
kubernetes  ClusterIP  10.100.0.1      <none>           443/TCP      74m  
root@ip-172-31-44-67:~# vi deployment.yaml  
root@ip-172-31-44-67:~# kubectl create -f deployment.yaml  
deployment.apps/nginx-server created  
root@ip-172-31-44-67:~# kubectl get deployments  
NAME      READY      UP-TO-DATE      AVAILABLE      AGE  
nginx-server  2/3        3                2              48s  
root@ip-172-31-44-67:~# kubectl get po  
NAME      READY      STATUS      RESTARTS      AGE  
nginx-server-565db8d649-7n588  0/1        Pending    0              103s  
nginx-server-565db8d649-8qmv8  1/1        Running    0              103s  
nginx-server-565db8d649-f5hcs  1/1        Running    0              103s  
root@ip-172-31-44-67:~# |
```

```
root@ip-172-31-44-67: ~  
root@ip-172-31-44-67:~# vi service.yaml  
root@ip-172-31-44-67:~# kubectl create -f service.yaml  
service/nginx-service created  
root@ip-172-31-44-67:~# kubectl get svc  
NAME      TYPE      CLUSTER-IP      EXTERNAL-IP      PORT(S)      AGE  
kubernetes  ClusterIP  10.100.0.1      <none>           443/TCP      93m  
nginx-service  ClusterIP  10.100.69.123   <none>           80/TCP       39s  
root@ip-172-31-44-67:~# kubectl get po  
NAME      READY      STATUS      RESTARTS      AGE  
nginx-server-565db8d649-7n588  0/1        Pending    0              12m  
nginx-server-565db8d649-8qmv8  1/1        Running    0              12m  
nginx-server-565db8d649-f5hcs  1/1        Running    0              12m  
root@ip-172-31-44-67:~# |
```

```

root@ip-172-31-44-67: ~
aws awscli2.zip deployment.yaml kubectl secret.yaml service.yaml snap
root@ip-172-31-44-67:~# rm deployment.yaml
root@ip-172-31-44-67:~# ls
aws awscli2.zip kubectl secret.yaml service.yaml snap
root@ip-172-31-44-67:~# vi deployment.yaml
root@ip-172-31-44-67:~# kubectl create -f deployment.yaml
deployment.apps/nginx-official-deployment created
root@ip-172-31-44-67:~#

```

```

root@ip-172-31-44-67: ~
aws awscli2.zip deployment.yaml kubectl secret.yaml snap
root@ip-172-31-44-67:~# vi service.yaml
root@ip-172-31-44-67:~# kubectl create -f se
secret.yaml service.yaml
root@ip-172-31-44-67:~# kubectl create -f service.yaml
service/nginx-official-service created
root@ip-172-31-44-67:~# kubectl get svc

```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.100.0.1	<none>	443/TCP	118m
nginx-official-service	NodePort	10.100.183.132	<none>	80:31303/TCP	32s
nginx-service	ClusterIP	10.100.69.123	<none>	80/TCP	25m

```

root@ip-172-31-44-67:~# |

```

EC2 | ap-south- x Clusters | Elastic Kubernetes S x ChatGPT x Welcome to nginx! x +

13.200.249.144:31303

YouTube Maps

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.

