

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

Created EKS Cluster service .Node UP& Running.

```
yugan@yugan:~/Jenkinsbuild$ kubectl get nodes
NAME                                STATUS    ROLES    AGE    VERSION
ip-192-168-46-165.ap-south-1.compute.internal Ready    <none>   42m    v1.32.9-eks-ecaa3a6
ip-192-168-68-233.ap-south-1.compute.internal Ready    <none>   42m    v1.32.9-eks-ecaa3a6
yugan@Yugan:~/Jenkinsbuild$
```

Deployment Creation for Nginx

```
yugan@Yugan:~/Jenkinsbuild$ kubectl create deployment nginx-deployment --image=nginx
deployment.apps/nginx-deployment created
yugan@Yugan:~/Jenkinsbuild$
```

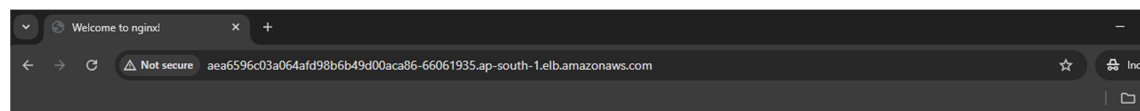
Pod Verification

```
yugan@Yugan:~/Jenkinsbuild$ kubectl get pods
NAME                                READY    STATUS    RESTARTS   AGE
nginx-deployment-6cfb98644c-df9wd  1/1      Running   0           10m
yugan@Yugan:~/Jenkinsbuild$
```

Exposed Load Balance in Port 80

```
yugan@Yugan:~/Jenkinsbuild$ kubectl get service
NAME                TYPE        CLUSTER-IP    EXTERNAL-IP
kubernetes          ClusterIP   10.100.0.1    <none>
nginx-service       LoadBalancer 10.100.19.179 aea6596c03a064afd98b6b49d00aca86-66061935.ap-south-1.elb.amazonaws.com
yugan@Yugan:~/Jenkinsbuild$
```

Validated in External Browser



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.