

LAB | NGINX app on EKS

Create & Expose Deployment

```
vijayagagla@DESKTOP-FP4OP26:~/kubernetes$ kubectl create deployment nginx-deployment --image=nginx:latest
deployment.apps/nginx-deployment created
vijayagagla@DESKTOP-FP4OP26:~/kubernetes$ kubectl get deployments
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment   1/1     1           1           12s
vijayagagla@DESKTOP-FP4OP26:~/kubernetes$ kubectl get pods
NAME                           READY   STATUS    RESTARTS   AGE
nginx-deployment-bc64dffbd-f8tpq   1/1     Running   0          26s
vijayagagla@DESKTOP-FP4OP26:~/kubernetes$ kubectl expose deployment nginx-deployment \
--type=LoadBalancer \
--port=80 \
--name=nginx-service
service/nginx-service exposed
vijayagagla@DESKTOP-FP4OP26:~/kubernetes$ kubectl get svc nginx-service
NAME            TYPE        CLUSTER-IP      EXTERNAL-IP
nginx-service   LoadBalancer   10.100.235.46   a9d4b23553a6046f098e941e2e720488-1288325249.eu-central-1.elb.amazonaws.com   PORT(S)        AGE
                                                               80:31935/TCP   24s
```

Scale the Application

```
vijayagagla@DESKTOP-FP4OP26:~/kubernetes$ kubectl scale deployment nginx-deployment --replicas=3
deployment.apps/nginx-deployment scaled
vijayagagla@DESKTOP-FP4OP26:~/kubernetes$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx-deployment-bc64dffbd-44jhk   1/1     Running   0          7s
nginx-deployment-bc64dffbd-f8tpq   1/1     Running   0          2m26s
nginx-deployment-bc64dffbd-fg84w   0/1     ContainerCreating   0          7s
vijayagagla@DESKTOP-FP4OP26:~/kubernetes$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx-deployment-bc64dffbd-44jhk   1/1     Running   0          26s
nginx-deployment-bc64dffbd-f8tpq   1/1     Running   0          2m45s
nginx-deployment-bc64dffbd-fg84w   1/1     Running   0          26s
```

Test the Application

```
vijayagagla@DESKTOP-FP4OP26:~/kubernetes$ curl http://a9d4b23553a6046f098e941e2e720488-1288325249.eu-central-1.elb.amazonaws.com
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
```