Deploying Nginx Container

Let's now create a deployment that will help us to create pods. The command for that would be:

```
kubectl create deployment demo-nginx --image=nginx --replicas=2 --port=80
```

The above command uses kubectl to create the **deployment** with the name **demo-nginx** and pulls image **nginx** from the DockerHub.Also, it creates two **replicas** for high availability and exposes port 8080.

```
[root@ip-172-31-92-254 ~]# kubectl create deployment demo-nginx --
image=nginx --replicas=2 --port=80
deployment.apps/demo-nginx created
```

The above output also verifies the successful creation of our deployment by using the command "**kubectl get deployments**".

We can also verify the creation of two replicaset in the background:

```
[root@ip-172-31-92-254 ~]# kubectl get replicaset

NAME DESIRED CURRENT READY AGE

demo-nginx-699bd94686 2 2 2 3m7s
```

Also, we can check our newly created two pods:

Let's now expose this application to the external network by using the command:

```
kubectl expose deployment demo-nginx --port=80 --type=LoadBalancer
[root@ip-172-31-92-254 ~]# kubectl expose deployment demo-nginx --port=80
--type=LoadBalancer
service/demo-nginx exposed
```

Finally, let's verify all our resources created so far in our cluster:

We can verify the Nginx default page from our browser also:

Commercial support is available at nginx.com.

Thank you for using nginx.

