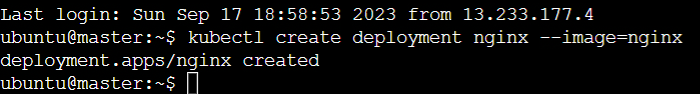
**Experiment No 4**

**Shashwat Tripathi  
D15A 64  
Batch C**

**AIM: To install Kubectl and execute Kubectl commands to manage the Kubernetes cluster and deploy Your First Kubernetes Application.**

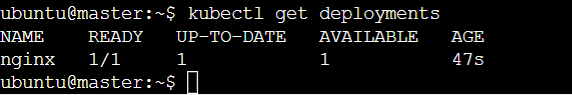
* **Running the application on the cluster**

kubectl create deployment nginx --image=nginx

****

* **Verifying the deployment using command**

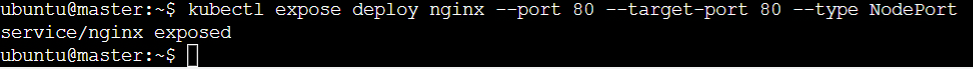
kubectl get deployments

****

* **Run the following command to create a service named nginx that will**

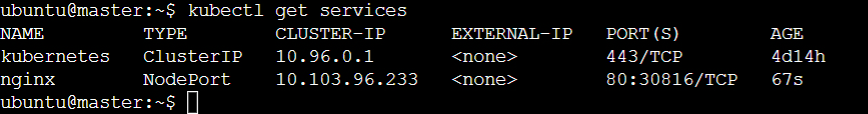
**expose the app publicly.**

kubectl expose deploy nginx –port 80 –target-port 80 –type NodePort

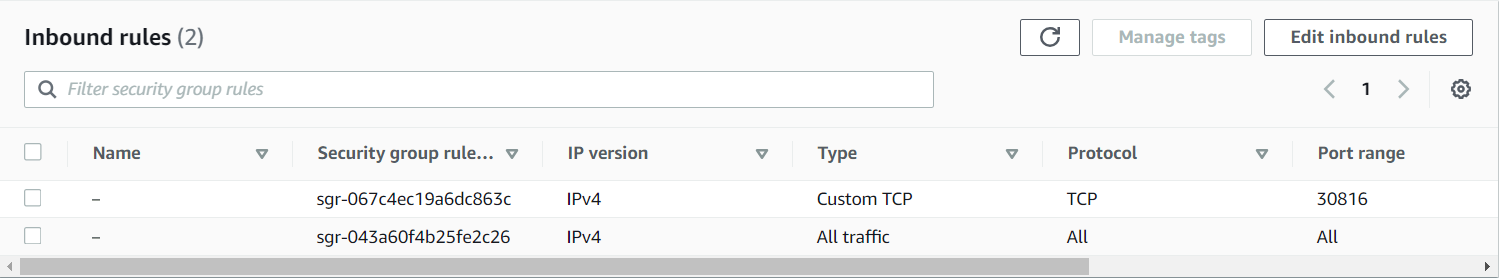
****

* **Run this command to see the summary of the service and ports exposed.**

kubectl get services

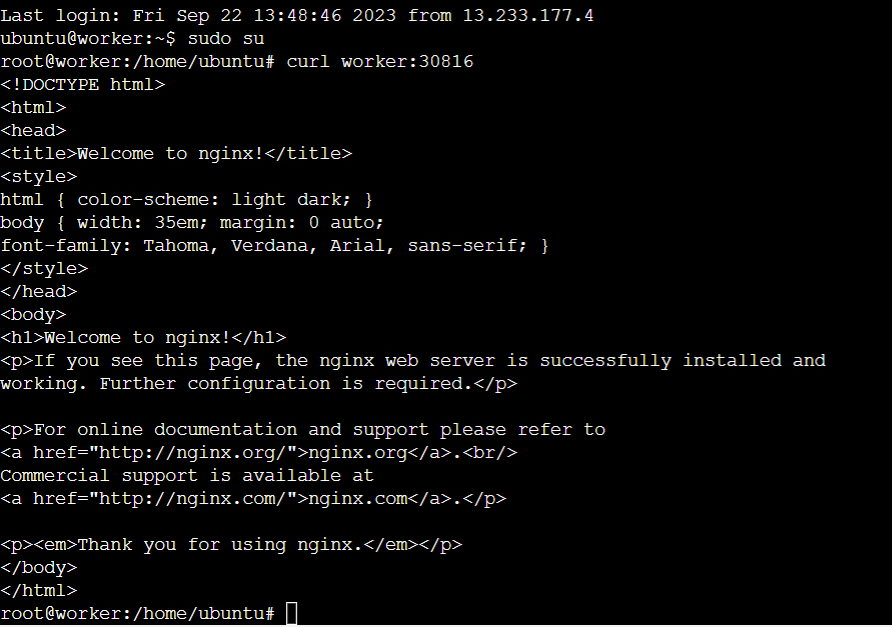
****

* **Add the port which is displayed i.e 30816 (will differ for each device) in the inbound rules of the security group of the worker.**

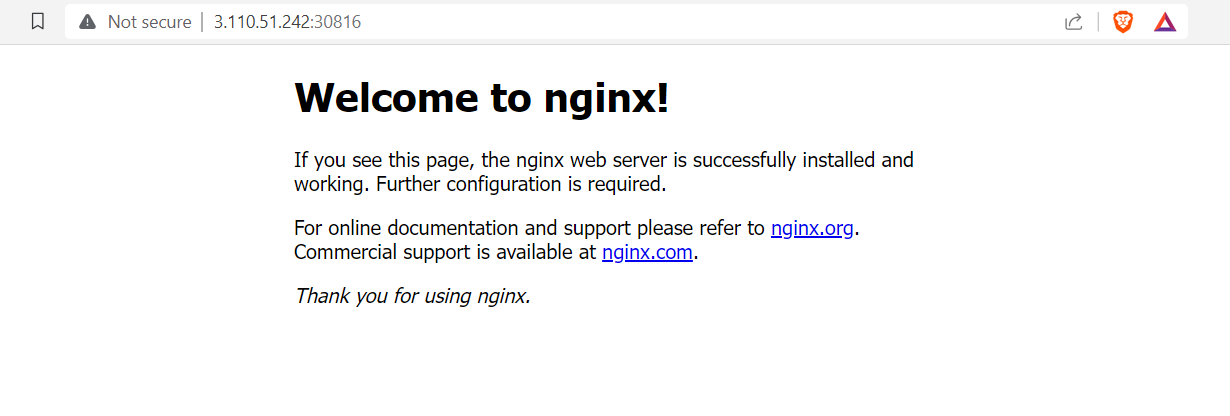
****

* **We can verify that the nginx page is accessible on all nodes using curl command(Worker)**

1. sudo su
2. curl worker:30816

****

**Open a new tab in browser and paste the public IP address followed by :port number (30816 in my case)**

****

**Conclusion:**Thus, we have studied and implemented how to install Kubectl and execute Kubectl commands to manage the Kubernetes cluster and deploy.

**Errors:**

I was facing an error because I forgot to make changes in the security group of worker node.