ADVANCE DEVOPS EXP 4

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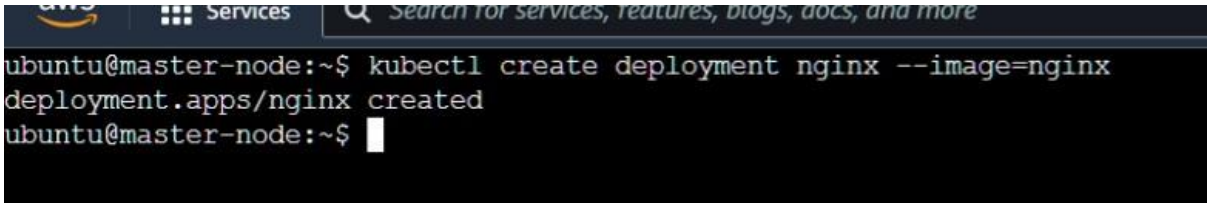
Roll no :- 40

Aim :- To install Kubectl and execute Kubectl commands to manage the Kubernetes cluster and deploy Your First Kubernetes Application

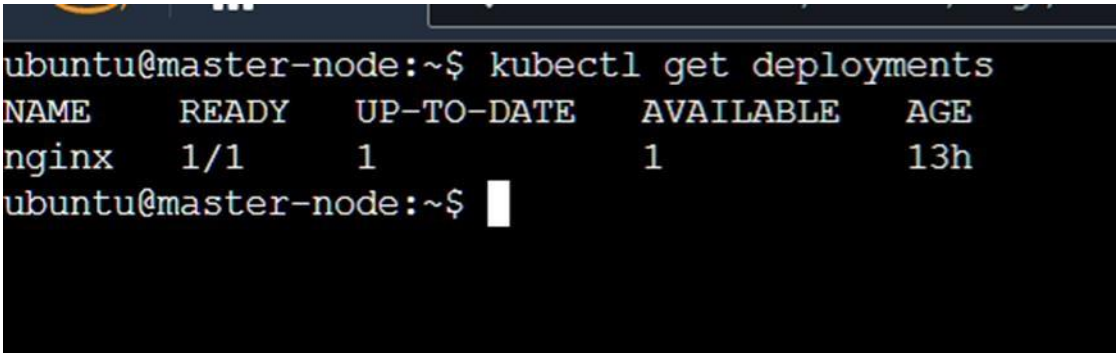
Step 1: As the cluster is up and running, we can deploy our nginx server on this cluster. Apply this deployment file using this command to create a deployment.

$kubectl create deployment nginx --image=nginx



Step 2: Verify the deployment using the command:

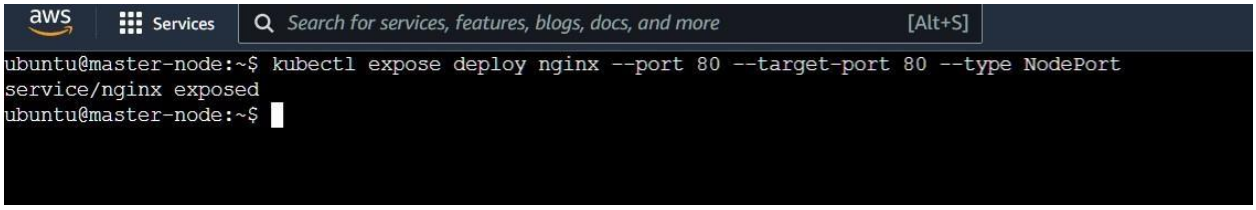
$kubectl get deployments



Step 3: Next, run the following command to create a service named nginx that will expose the app publicly. It will do so through a NodePort, a scheme that will make the pod accessible through an arbitrary port opened on each node of the cluster

with this service-type, Kubernetes will assign this service on ports on the **30000+** range.

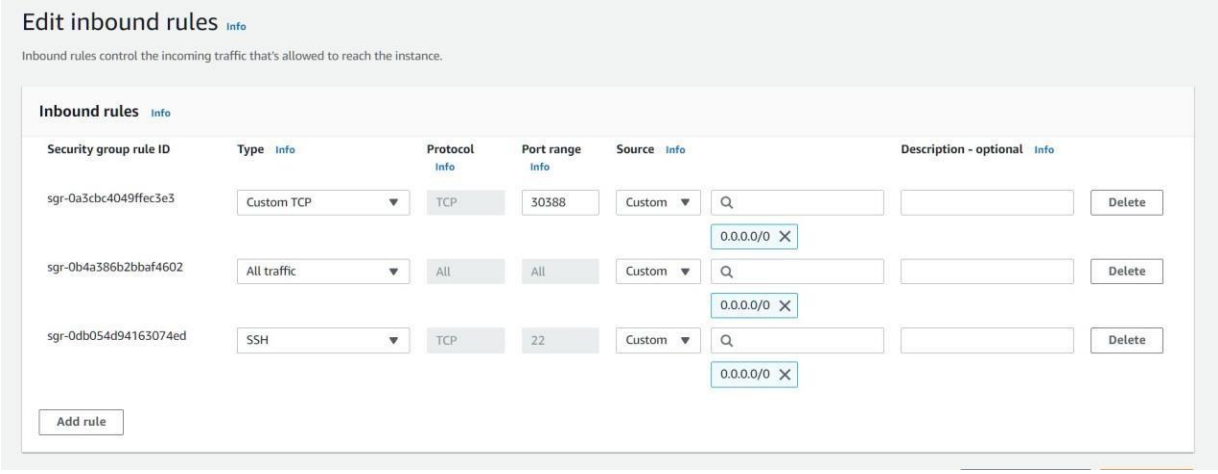
$kubectl expose deploy nginx --port 80 --target-port 80 --type NodePort



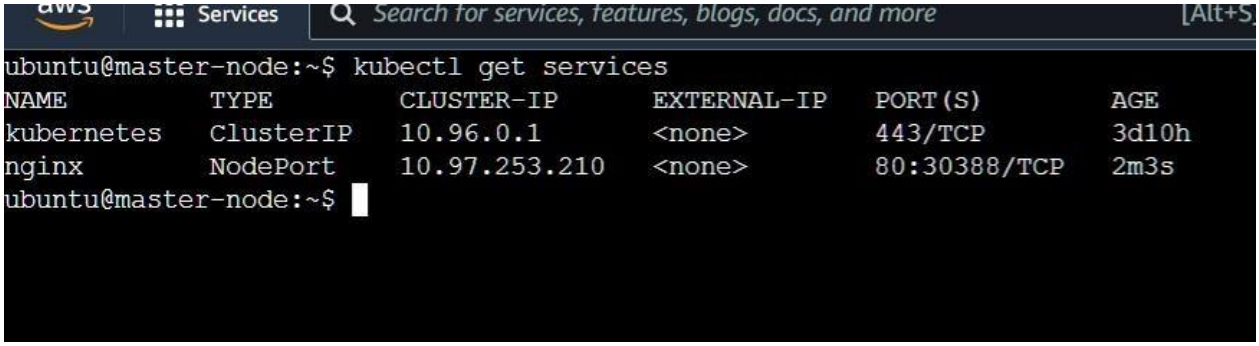
Step 4: Run this command to see a summary of the service and the ports exposed.

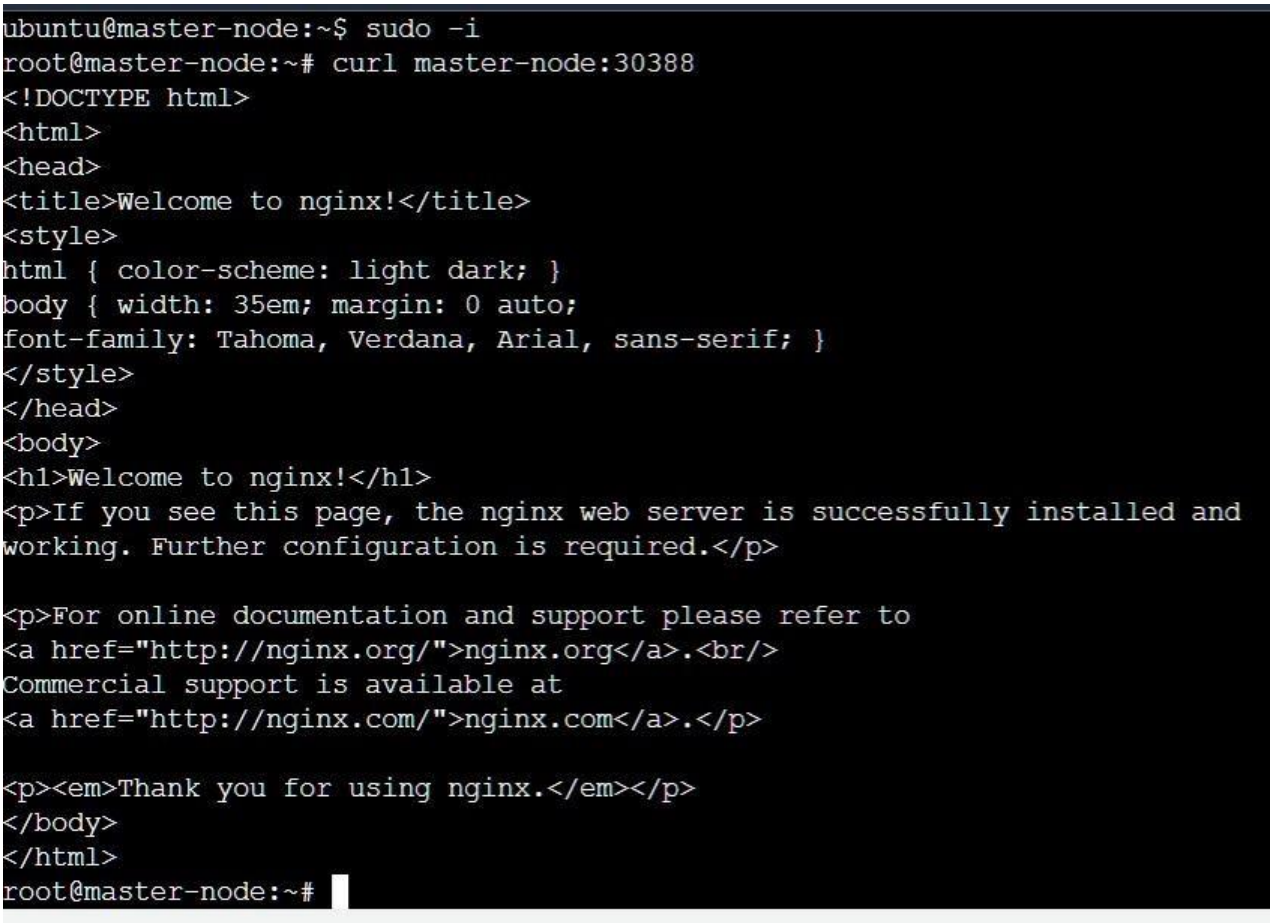
$kubectl get services

Step 5: Add the port which is displayed i.e. 30388 (in our case) in the inbound rules of the security group.



Step 6: Now you can verify that the Nginx page is reachable on all nodes using thecurl command.





As you can see, the "**WELCOME TO NGINX!**" page can be reached.

Step 7: To test that everything is working, visithttp://worker_1_ip:nginx_port or http://worker_2_ip:nginx_port
through a browser on your local machine. You will see Nginx's familiar welcomepage.

http://52.90.129.234:30388