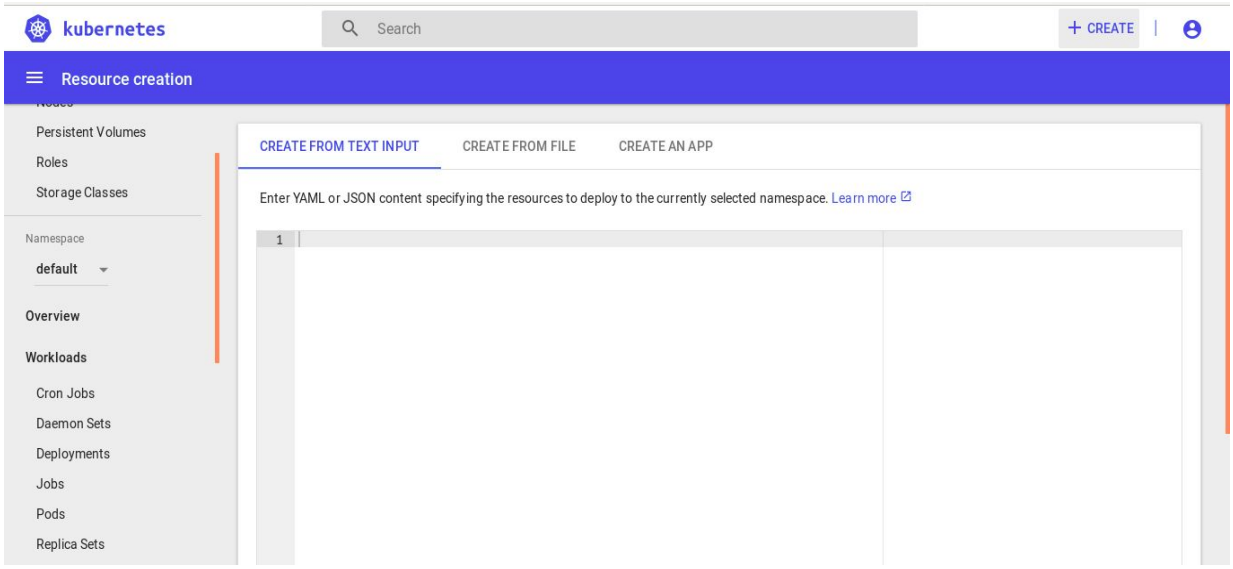
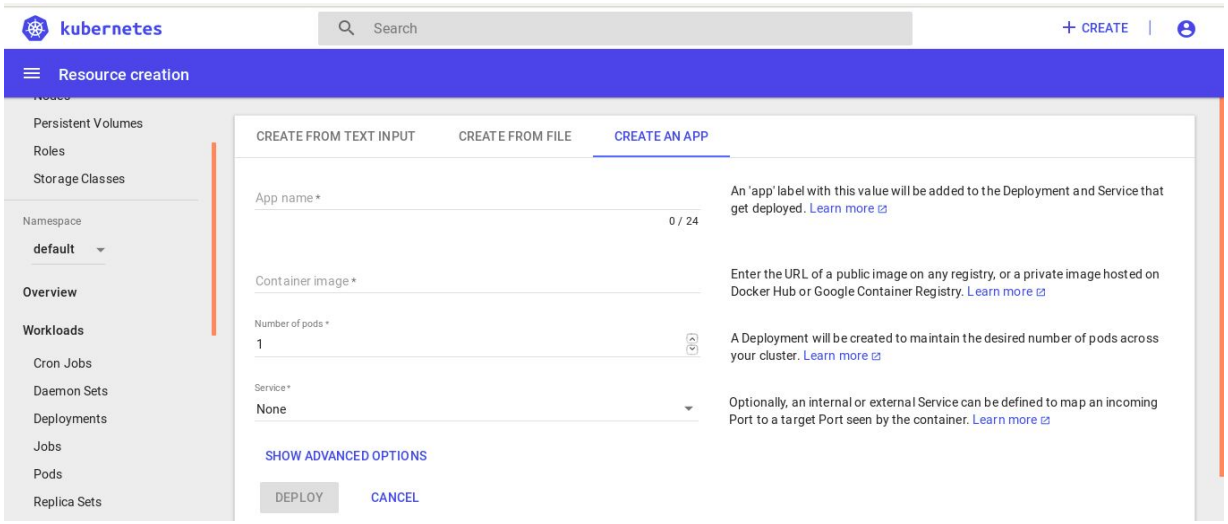
Run a Stateless Application Using a Deployment

Login to the Kubernetes Dashboard from the Link provided in K8s Lab instructions
The default username is admin and the password is provided in K8s Lab instructions
Click SKIP when asked for the TOKEN.

1. Deploy the nginx container by clicking ` CREATE ` on the top right.



2. Select the third option “CREATE AN APP”



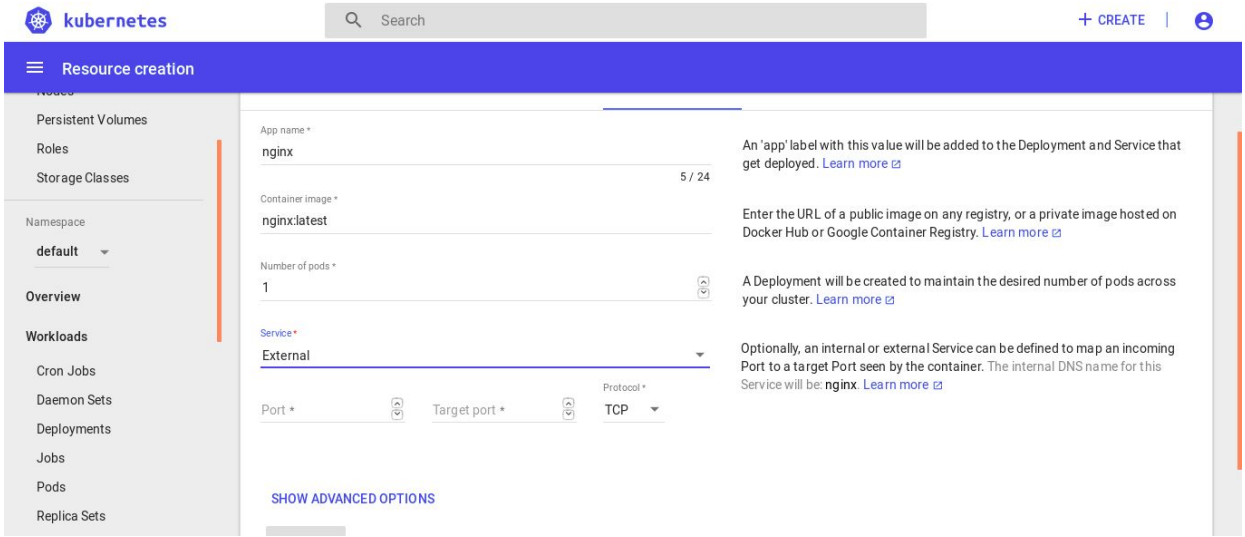
3. Enter the values as follows
App name : <app-name> (can be anything)
Container name : nginx (is the name of the Docker container that will be pulled from the official Docker repository)

Number of Pods : 1 (is the count of the container that you wish to deploy when the app is deployed)

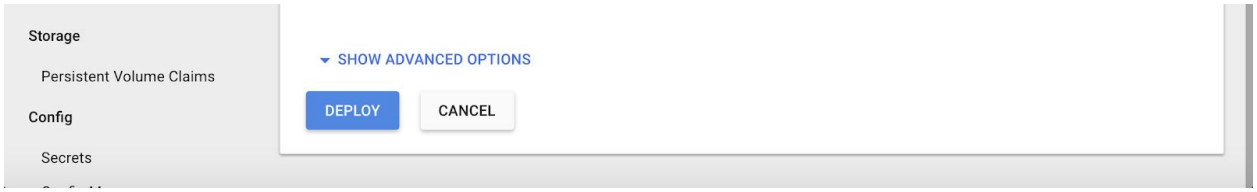
Note: Do not Deploy the app over 3 else the deployments will fail as the threshold limit for scaling a Deployment is 3 on the higher side.

Service: external (if the app needs to be accessed from outside the network then this is set to external and the K8s engine will bind the application to an external endpoint so that it can be accessed from outside the container network)
Refer https://kubernetes.io/docs/concepts/cluster-administration/networking/ for more information on cluster networking in Kubernetes.

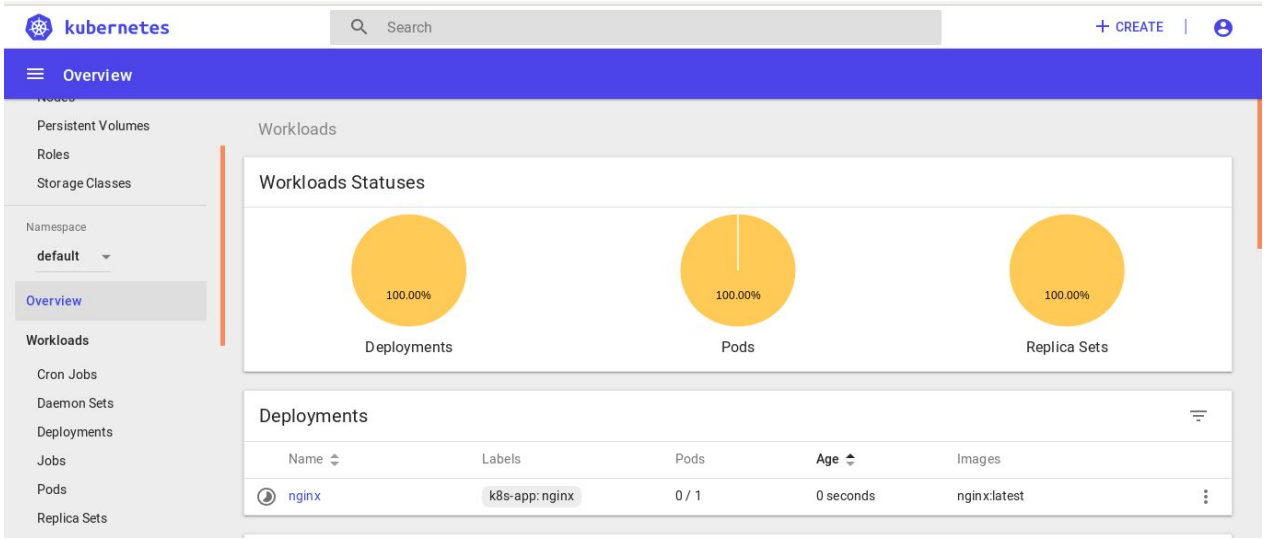
Port: 80
Targer Port: 80 (port mapping of the PODS {container} and the hos

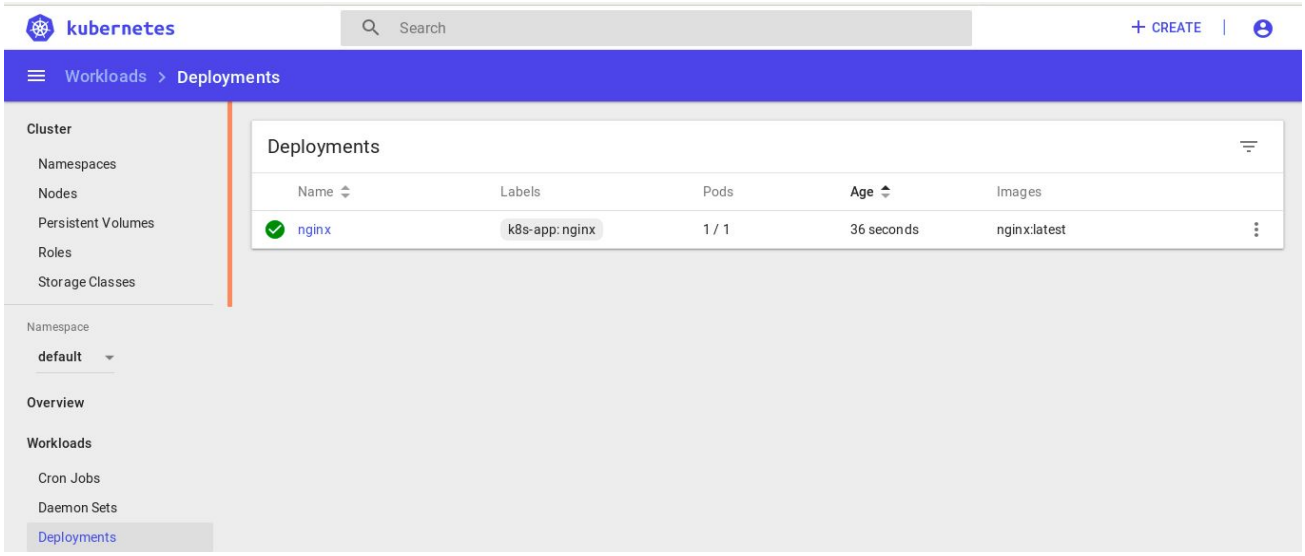


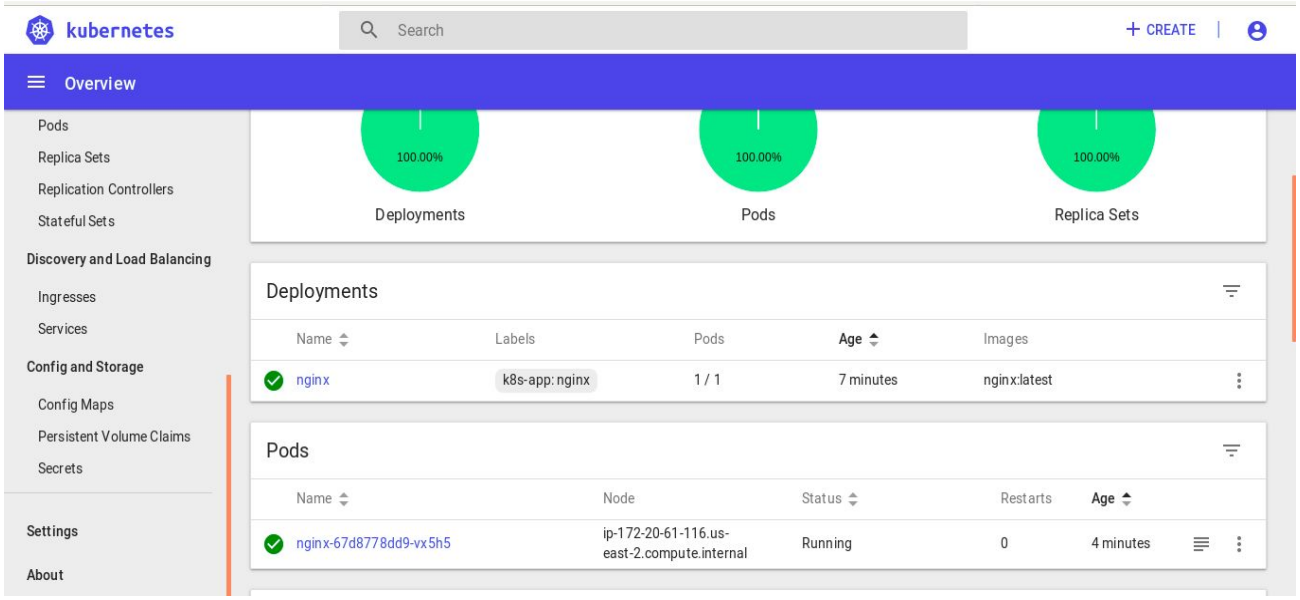
4. Click on "**Deploy**" once all the fields are filled.



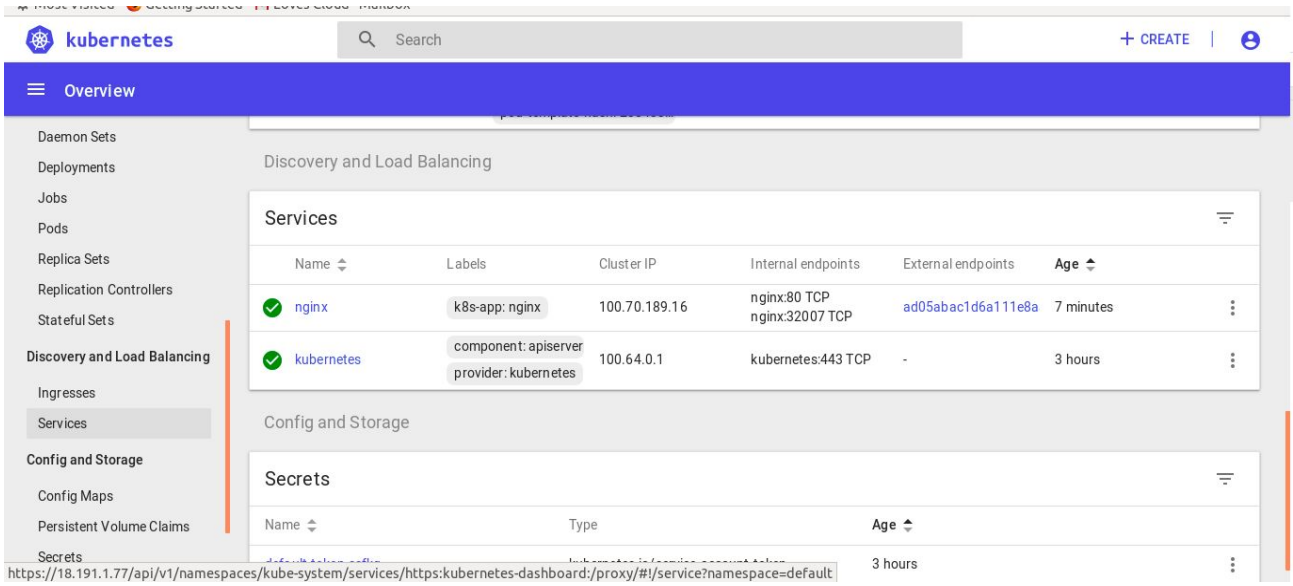
5. Click on the **Deployments** tab on the left hand side to Review the deployed ngix application details.



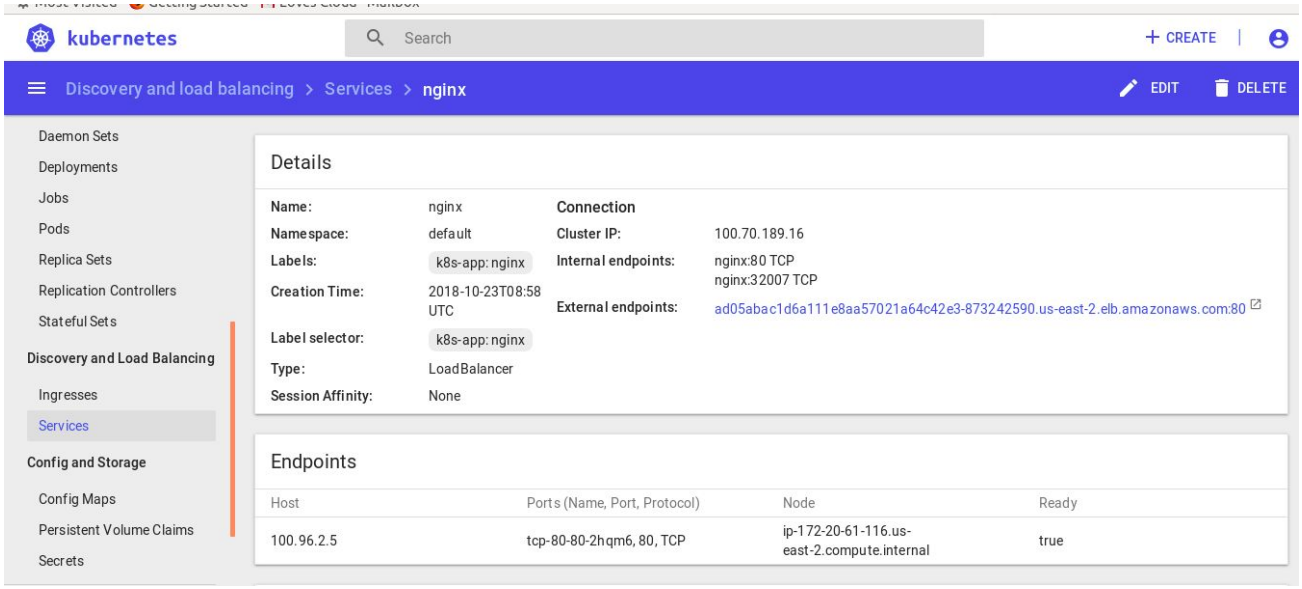




6. Click on the Services tab on the left hand and click on the nginx Services to find the external endpoints



You can see that the nginx app is mapped to an AWS load-balancer since this K8s cluster is running on AWS and is using Kubernetes Operation services.



NOTE: It takes around 5 Minutes for the service to get exposed and accessible through the load-balancer endpoint. Please try to access the service after 5 minutes.

7. Click on the **external endpoints** to access the application and if all the steps are followed correctly you will be able to see the nginx welcome page.