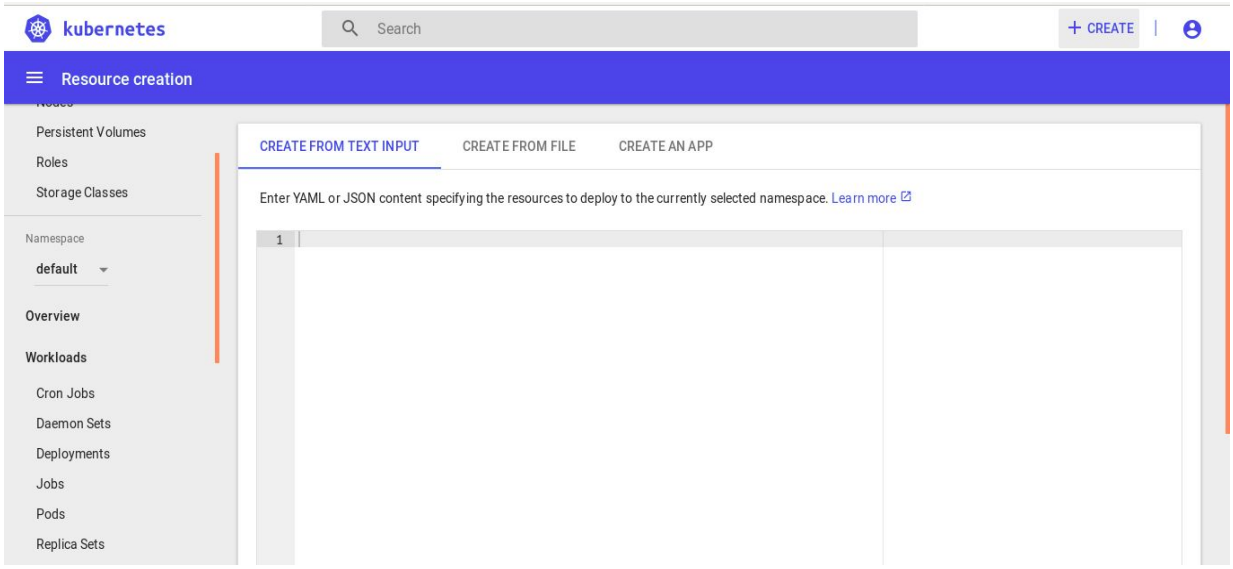
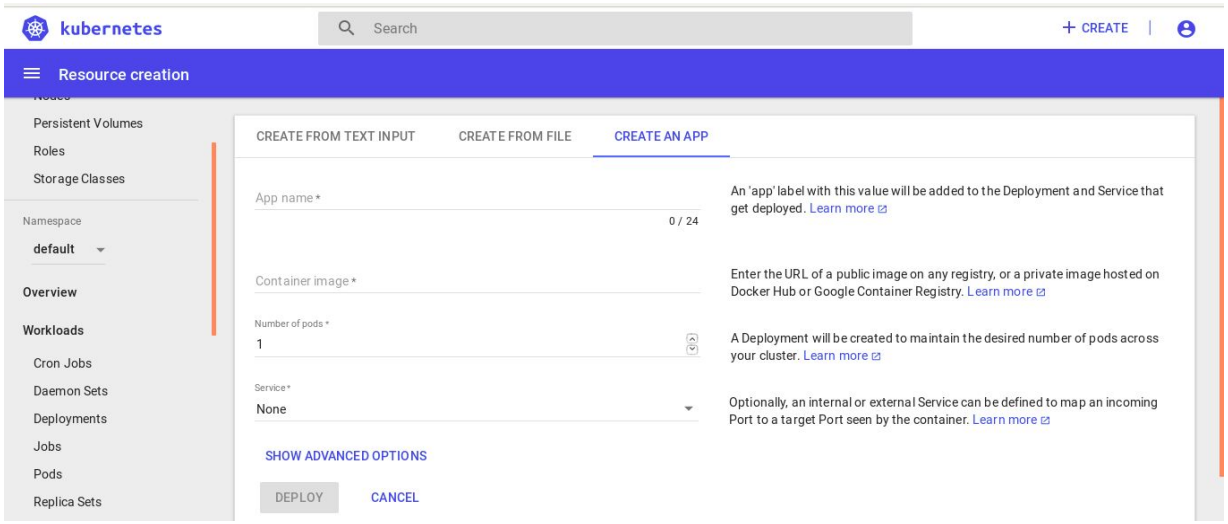
Run a Stateless Application Using a Deployment

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”

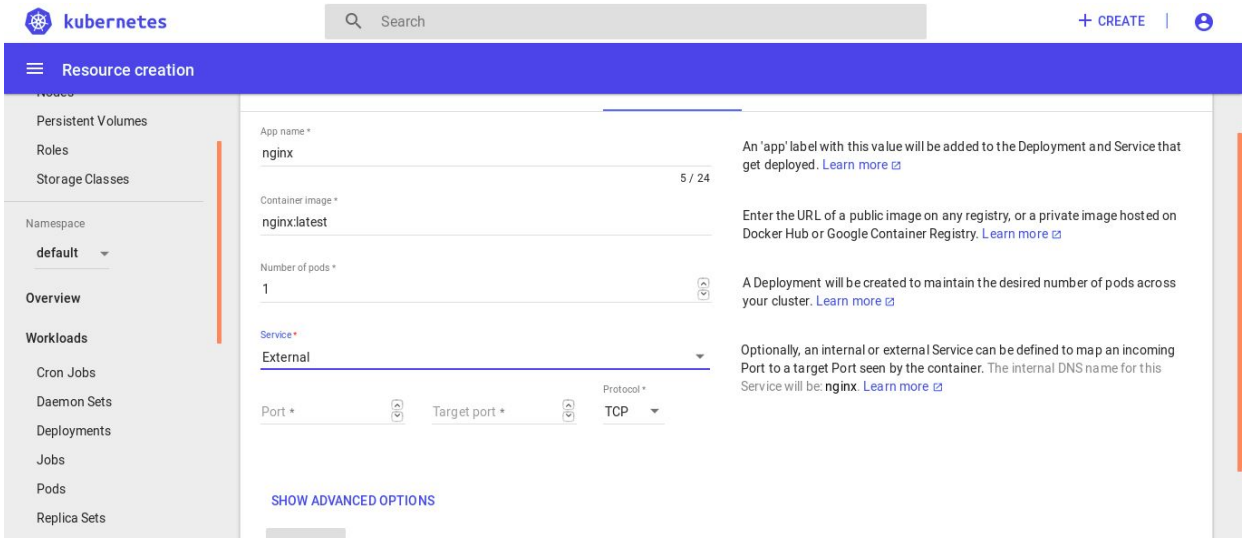


3. Enter the values as follows
App name : <Your-name> (name the app with your name for identification later)
Container name : nginx (is the name of the Docker container that will be pulled from the official Docker repository)

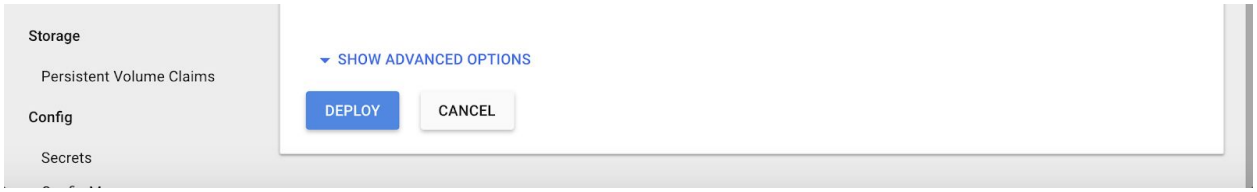
Number of Pods : 1 (is the count of the container that you wish to deploy when the app is deployed)

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)

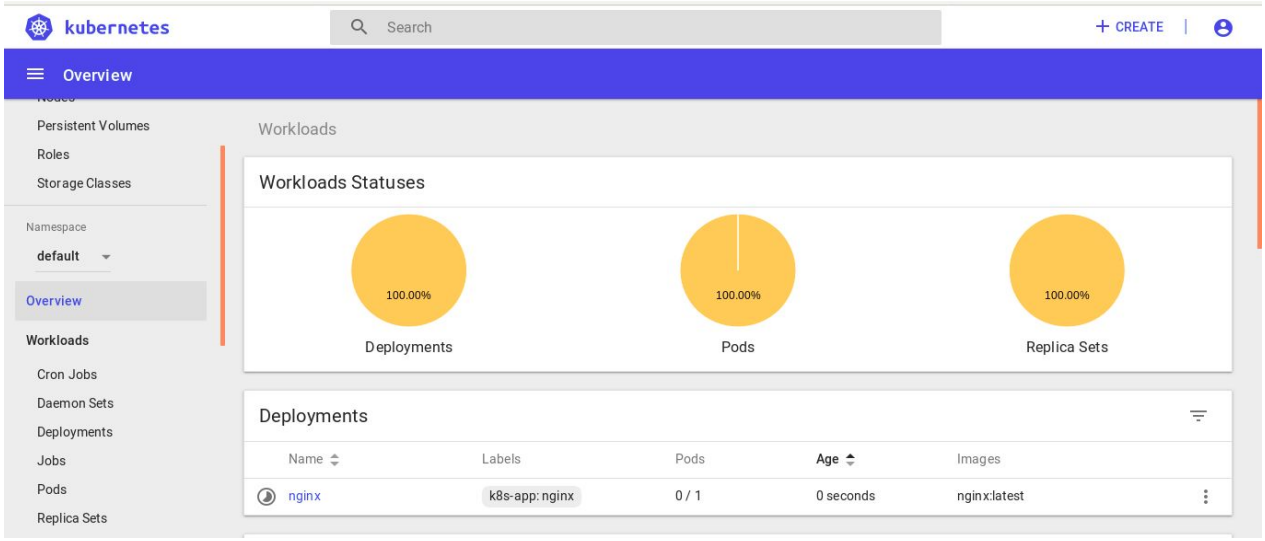
Port: 80
Targer Port: 80 (port mapping of the PODS {container} and the host)

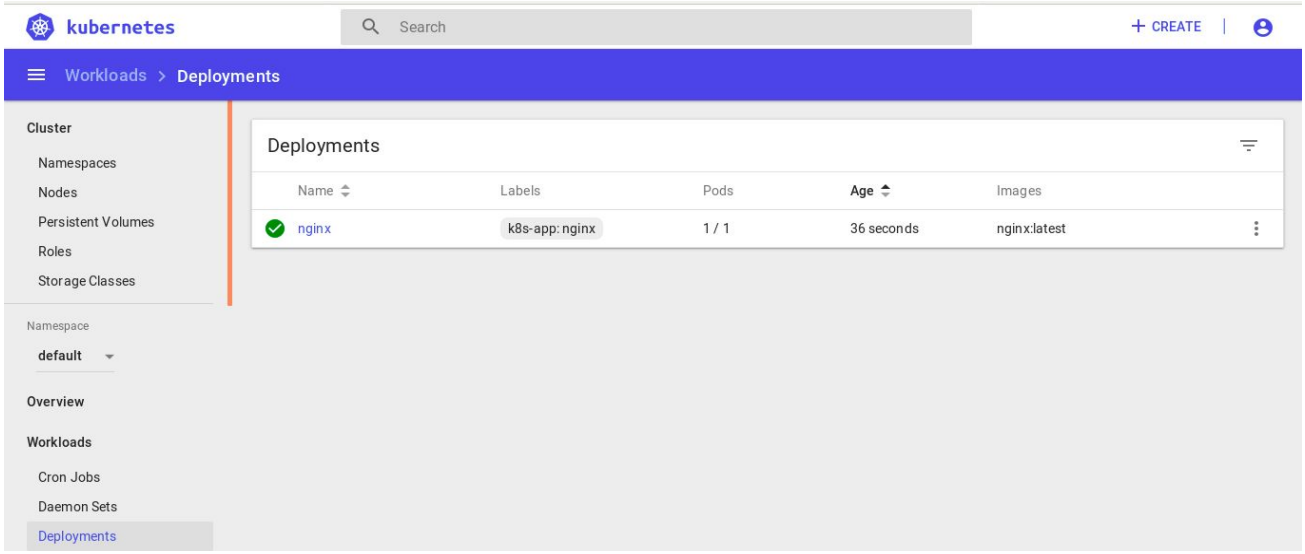


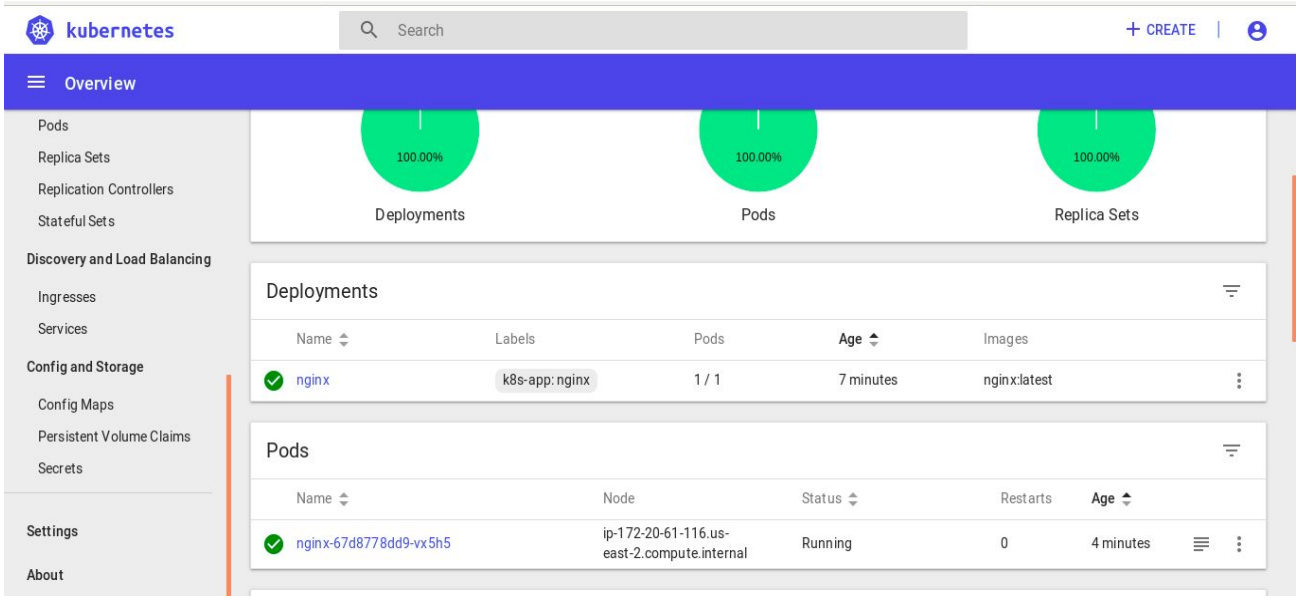
4. Click on "**Deploy**" once all the fields are filled.



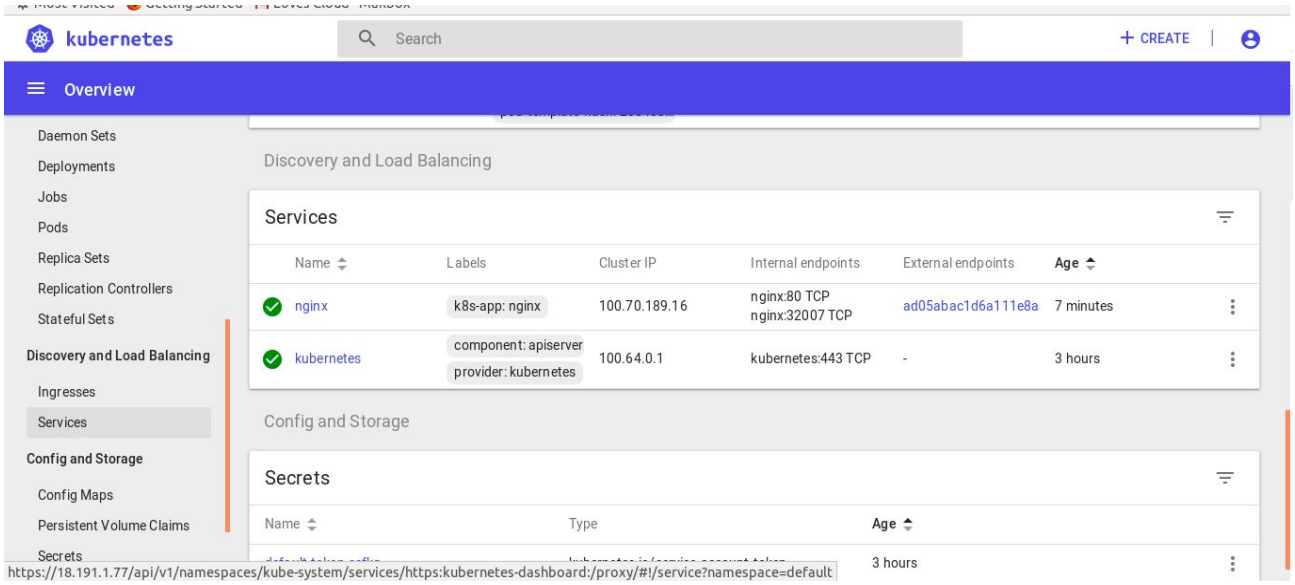
5. Click on the **Deployments** tab on the left hand side to Review the deployed nginx application details. Your Deployment will be **your-name** as described during step 3.


kubernetes
Search
+ CREATE
Overview
Persistent Volumes
Roles
Storage Classes
Namespace
default
Overview
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Workloads
Workloads Statuses
100.00%
Deployments
100.00%
Pods
100.00%
Replica Sets
Deployments
Name
Labels
Pods
Age
Images
nginx
k8s-app: nginx
0 / 1
0 seconds
nginx:latest

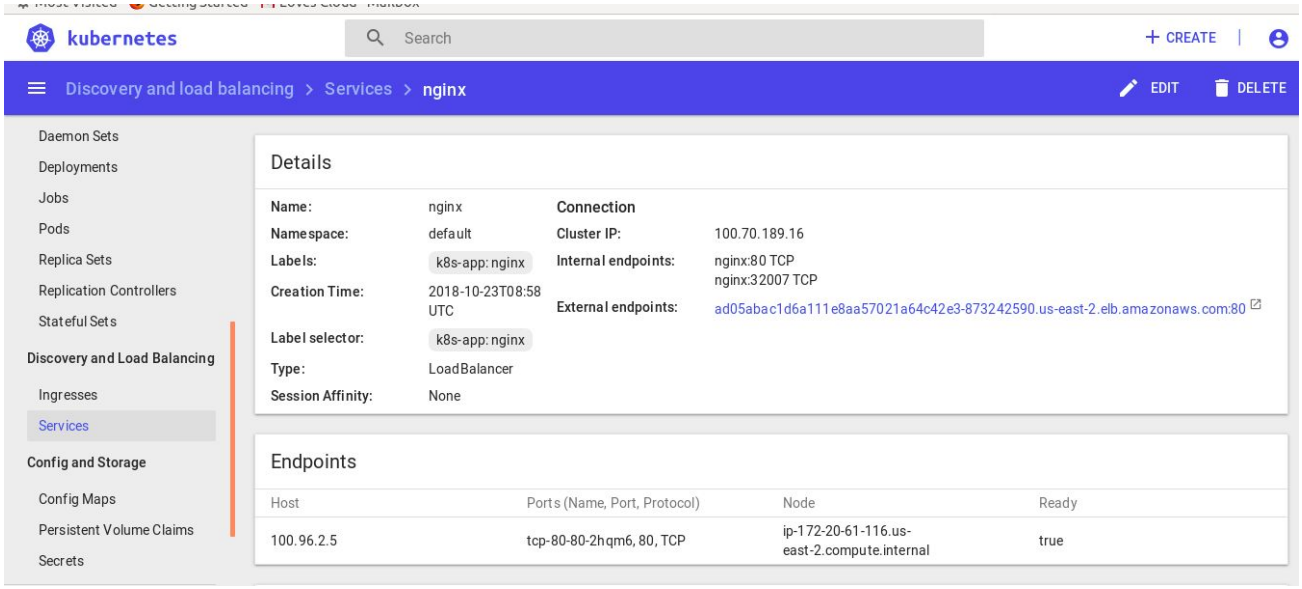

kubernetes
Search
+ CREATE
Workloads > Deployments
Cluster
Namespaces
Nodes
Persistent Volumes
Roles
Storage Classes
Namespace
default
Overview
Workloads
Cron Jobs
Daemon Sets
Deployments
Deployments
Name
Labels
Pods
Age
Images
nginx
k8s-app: nginx
1 / 1
36 seconds
nginx:latest



6. Click on the Services tab on the left hand and click on the nginx Services to find the external endpoints.The Service will be **your-name** as described during step 3.



You can see that the 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.