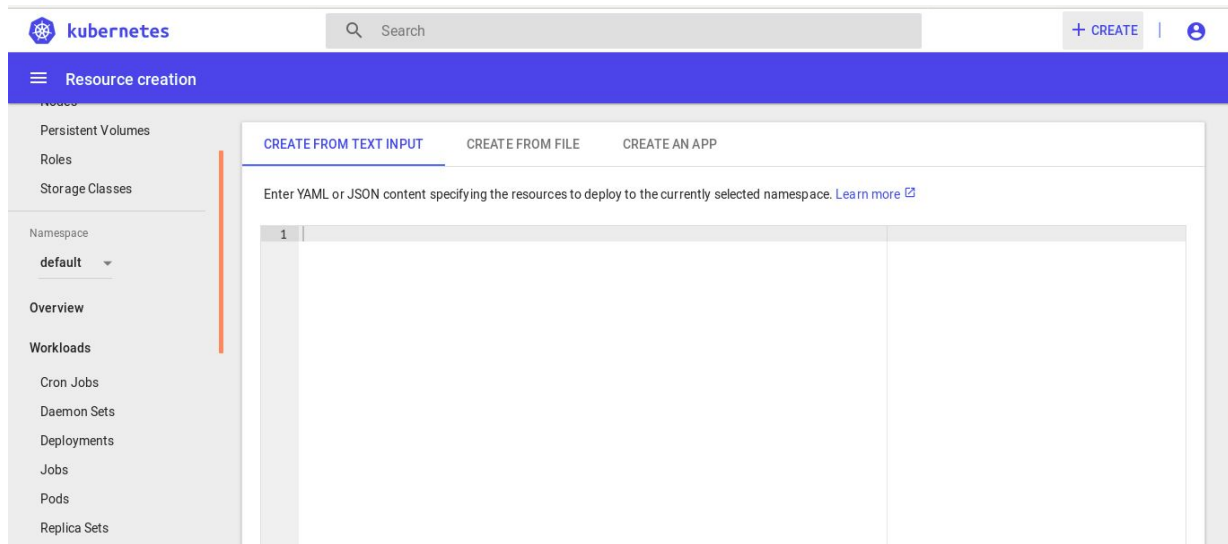
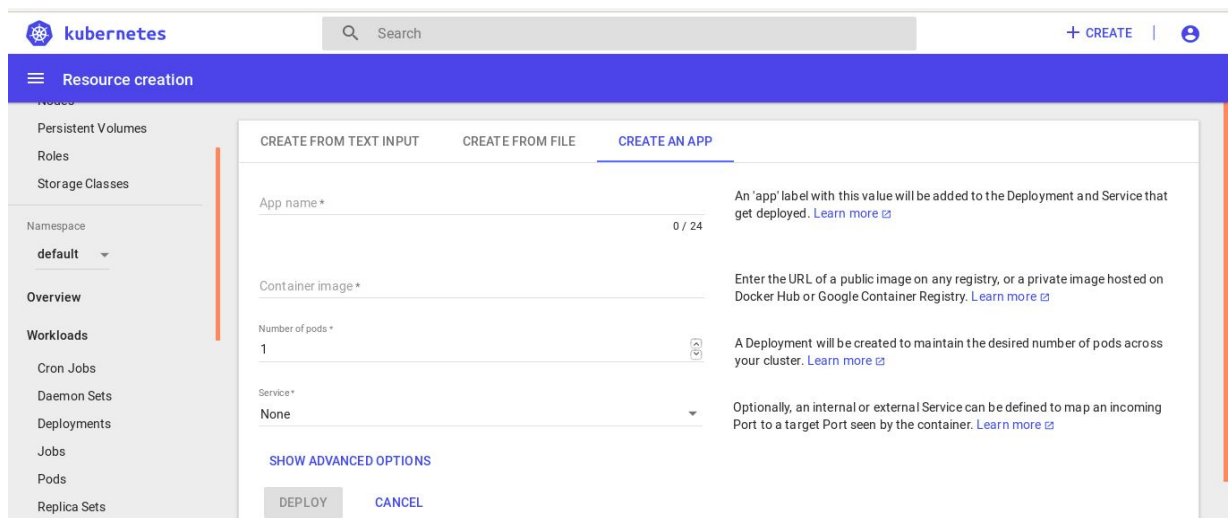


Login to the Kubernetes Dashboard from the Link provided in K8s Lab instructions
The default username is admin and the password is provided in K8s Lab instructions
Click SKIP when asked for the TOKEN.

1. Click on +CREATE button the TOP right of the K8s Dashboard



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)

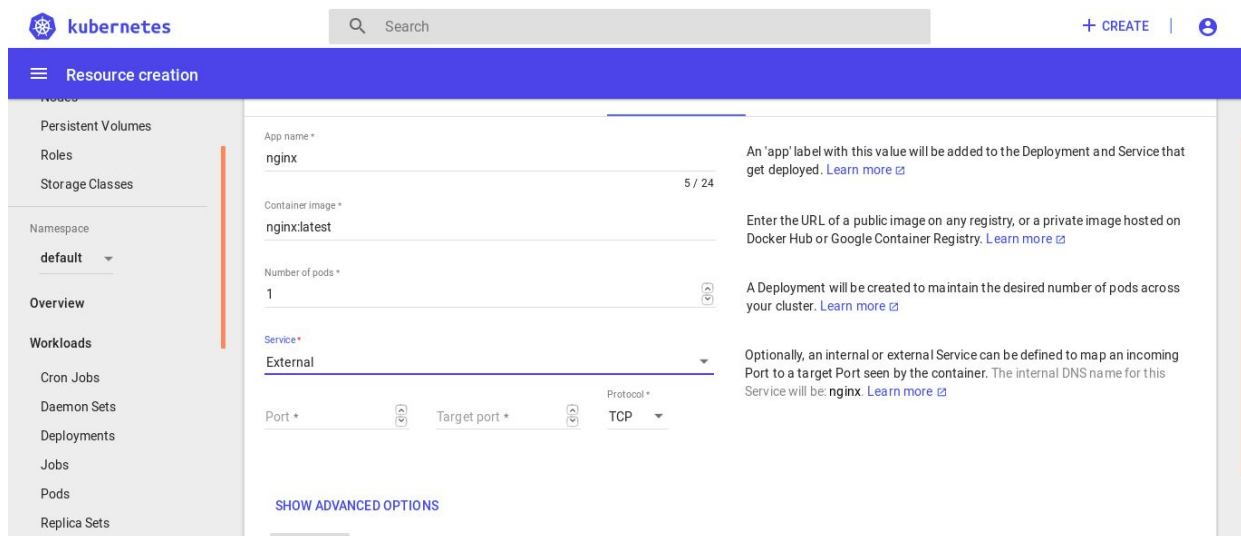
Note: Do not Deploy the app over 3 else the deployments will fail as the threshold limit for scaling a Deployment is 3 on the higher side.

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

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



The screenshot shows the 'Resource creation' page in the Kubernetes dashboard. The left sidebar contains a navigation menu with categories: 'Nodes', 'Persistent Volumes', 'Roles', 'Storage Classes', 'Namespace' (with a dropdown set to 'default'), 'Overview', 'Workloads', 'Cron Jobs', 'Daemon Sets', 'Deployments', 'Jobs', 'Pods', and 'Replica Sets'. The 'Deployments' tab is selected. The main form area is titled 'Resource creation' and contains the following fields and options:

- App name ***: nginx (5 / 24 characters)
- Container image ***: nginx:latest
- Number of pods ***: 1
- Service ***: External (dropdown menu)
- Port ***: (input field)
- Target port ***: (input field)
- Protocol ***: TCP (dropdown menu)

Help text for the Service field: 'An 'app' label with this value will be added to the Deployment and Service that get deployed. [Learn more](#)'

Help text for the Container image field: 'Enter the URL of a public image on any registry, or a private image hosted on Docker Hub or Google Container Registry. [Learn more](#)'

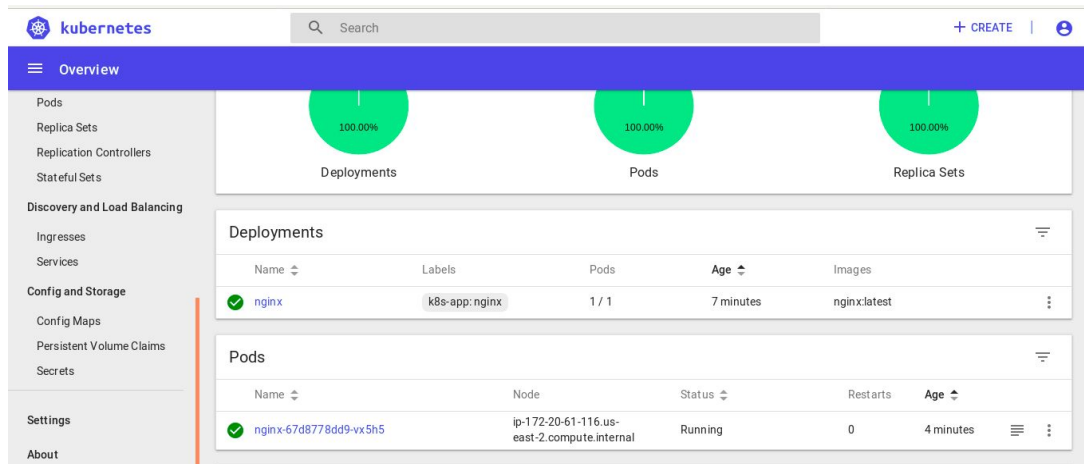
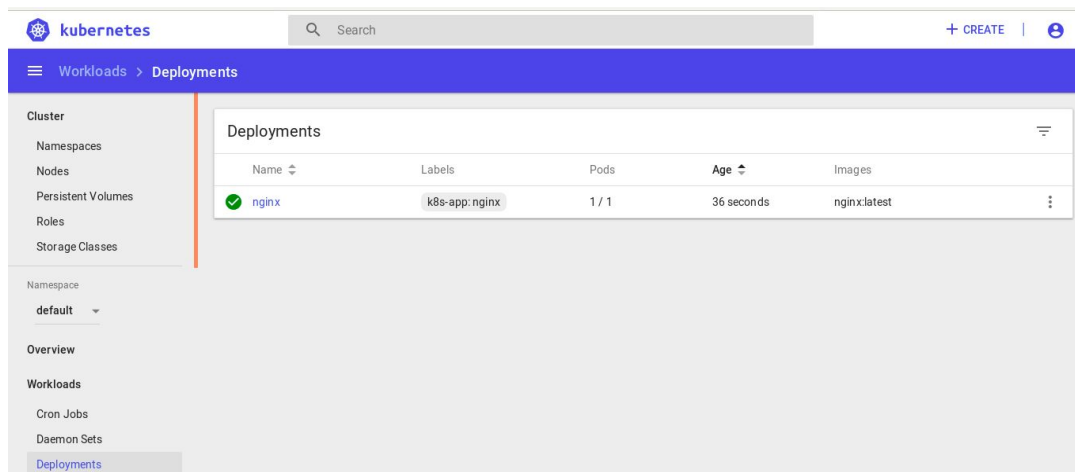
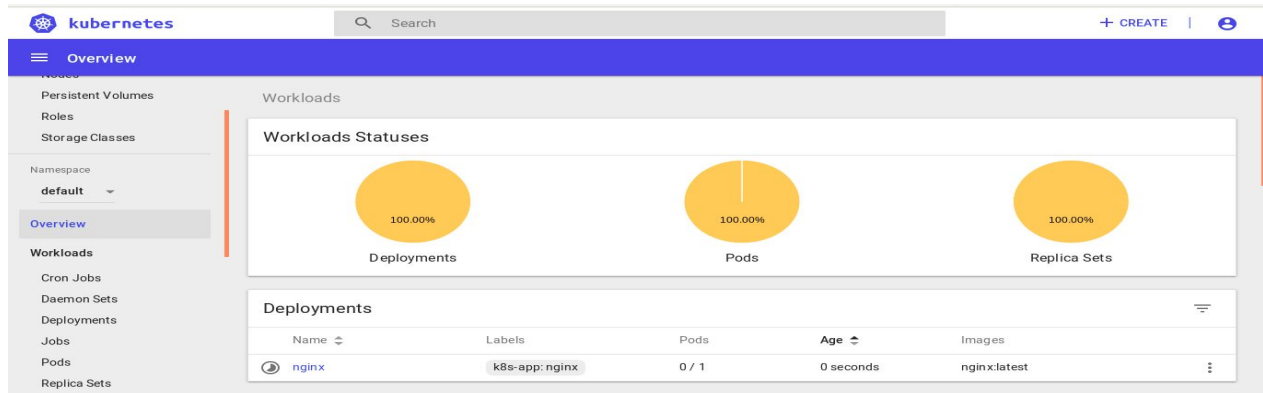
Help text for the Number of pods field: 'A Deployment will be created to maintain the desired number of pods across your cluster. [Learn more](#)'

Help text for the Service field: 'Optionally, an internal or external Service can be defined to map an incoming Port to a target Port seen by the container. The internal DNS name for this Service will be: nginx. [Learn more](#)'

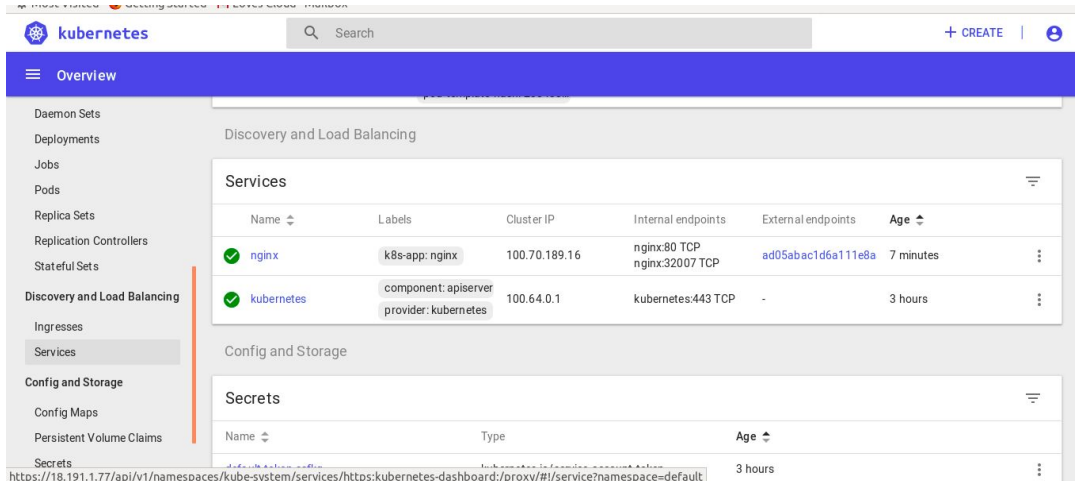
At the bottom of the form, there is a link: [SHOW ADVANCED OPTIONS](#)

Click on **“Deploy”** once all the fields are filled.

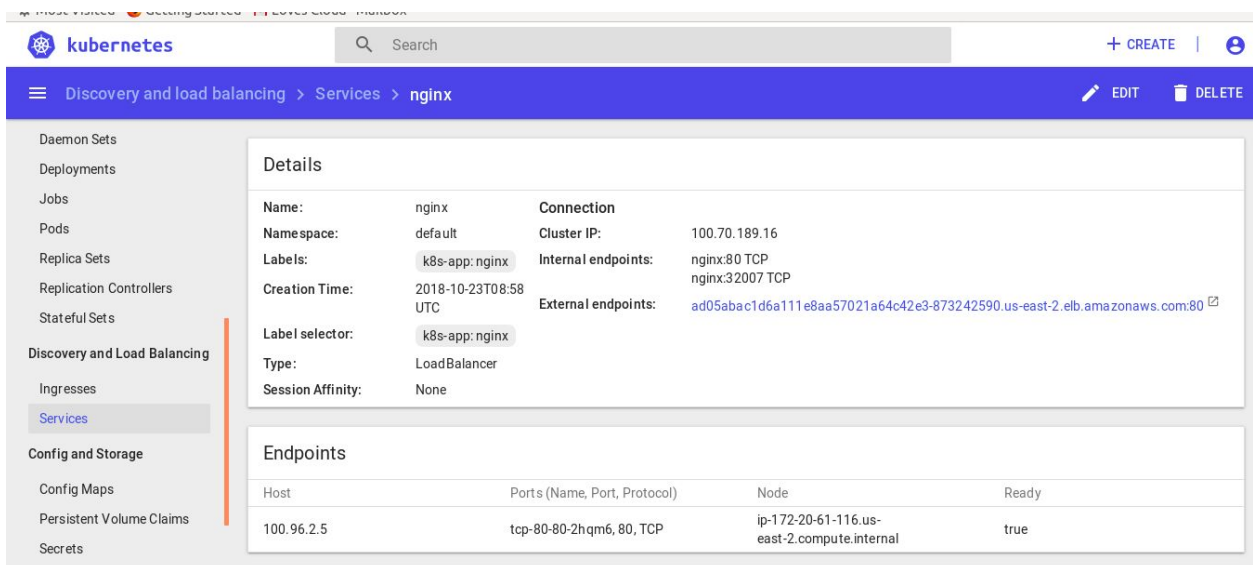
Click on the **Deployments** tab on the left hand side to see the deployed nginx application details.



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

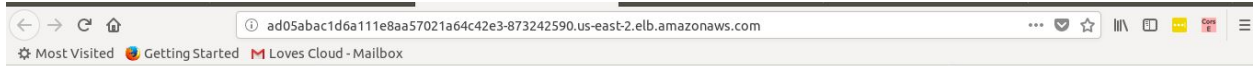


You can see that the nginx app is mapped to an AWS load-balancer since this K8s cluster is running on AWS and is using Kubernetes Operation services.



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.

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



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working.
Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.