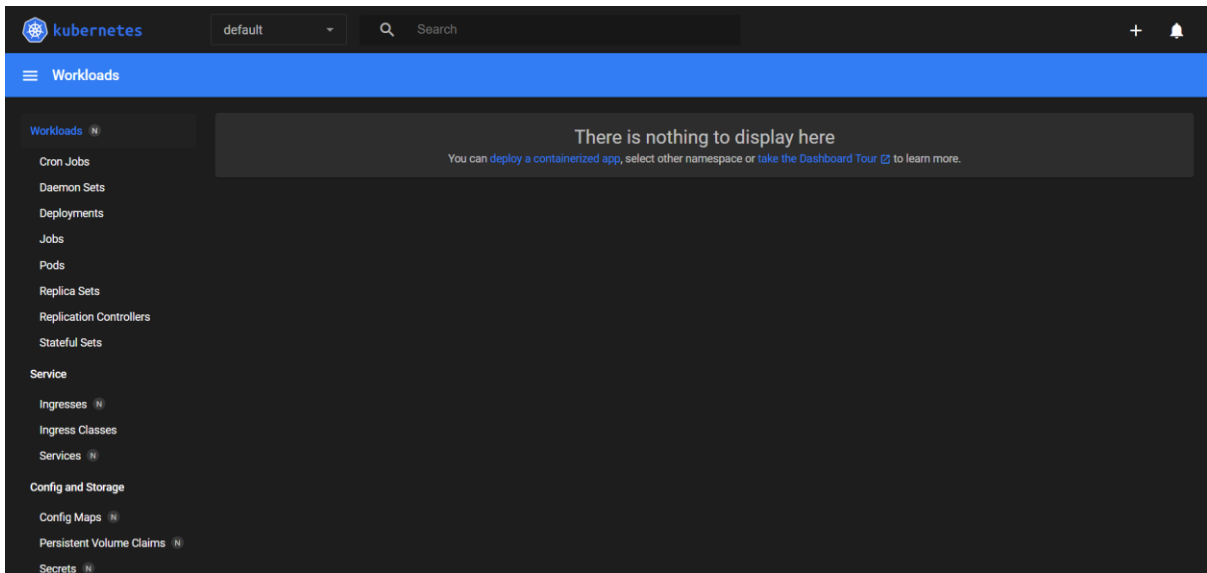


TASK 3 MINIKUBE

```
sushmithav@Sushmithav:~$ minikube version
minikube version: v1.35.0
commit: dd5d320e41b5451cdf3c01891bc4e13d189586ed-dirty
```

```
sushmithav@Sushmithav:~$ minikube dashboard
🔍 Verifying dashboard health ...
🚀 Launching proxy ...
🔍 Verifying proxy health ...
🌐 Opening http://127.0.0.1:46451/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
🔗 http://127.0.0.1:46451/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/
```



```
sushmithav@Sushmithav: ~
sushmithav@Sushmithav: ~/n
sushmithav@Sushmithav:~$ mkdir my-docker-project
mkdir: cannot create directory 'my-docker-project': File exists
sushmithav@Sushmithav:~$ mkdir my-docker-app
mkdir: cannot create directory 'my-docker-app': File exists
sushmithav@Sushmithav:~$ mkdir my-dockers-project
sushmithav@Sushmithav:~$ cd my-dockers-project
sushmithav@Sushmithav:~/my-dockers-project$ touch Dockerfile
sushmithav@Sushmithav:~/my-dockers-project$ nano Dockerfile
sushmithav@Sushmithav:~/my-dockers-project$ npm init -y
Wrote to \\wsl.localhost\Ubuntu\home\sushmithav\my-dockers-project\package.json:

{
  "name": "my-dockers-project",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}

sushmithav@Sushmithav:~/my-dockers-project$ docker pull sushmithasuse/docker:latest
latest: Pulling from sushmithasuse/docker
Digest: sha256:0c85a8d9144c6eae02f61098e9e7edd227ccac7c4d7d9add4aebb3456c7b014a
Status: Image is up to date for sushmithasuse/docker:latest
docker.io/sushmithasuse/docker:latest
```

TASK 3 MINIKUBE

```
sushmithav@Sushmithav: ~  
sushmithav@Sushmithav: ~  
sushmithav@Sushmithav: ~/my-dockers-project$ docker build -t sushmithasuse/docker:latest  
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.  
Install the buildx component to build images with BuildKit:  
https://docs.docker.com/go/buildx/  
  
"docker build" requires exactly 1 argument.  
See 'docker build --help'.  
  
Usage:  docker build [OPTIONS] PATH | URL | -  
  
Build an image from a Dockerfile  
sushmithav@Sushmithav: ~/my-dockers-project$ docker build -t sushmithasuse/docker:latest .  
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.  
Install the buildx component to build images with BuildKit:  
https://docs.docker.com/go/buildx/  
  
Sending build context to Docker daemon  4.096kB  
Step 1/7 : FROM node:18  
18: Pulling from library/node  
7cd785773db4: Pull complete  
091eb8249475: Pull complete  
255774e0027b: Pull complete  
353e14e5cc47: Pull complete  
aee83dd4a388: Pull complete  
372d60850963: Pull complete  
ec629d786f9c: Pull complete  
a0e501ed6714: Pull complete  
Digest: sha256:7f6bcd8e08a1f81bfbb29f5948de5c5507624788ddb50cadb94ddd439426b7c4  
Status: Downloaded newer image for node:18  
----> 5878ad25ae5e  
Step 2/7 : WORKDIR /app  
----> Running in ba0794bbdbcc  
----> Removed intermediate container ba0794bbdbcc  
----> 216fe9b54bc1  
Step 3/7 : COPY package.json ./  
----> df042771100a  
Step 4/7 : RUN npm install  
----> Running in 1eab8090ea0e
```

```
sushmithav@Sushmithav: ~  
sushmithav@Sushmithav: ~  
found 0 vulnerabilities  
----> Removed intermediate container 1eab8090ea0e  
----> 728b57af5572  
Step 5/7 : COPY . .  
----> f77e97543179  
Step 6/7 : EXPOSE 3000  
----> Running in bf3b2c235b7d  
----> Removed intermediate container bf3b2c235b7d  
----> 45d10d10b51e  
Step 7/7 : CMD ["npm", "start"]  
----> Running in cb4082fa6cbd  
----> Removed intermediate container cb4082fa6cbd  
----> d1fae5513798  
Successfully built d1fae5513798  
Successfully tagged sushmithasuse/docker:latest  
sushmithav@Sushmithav: ~/my-dockers-project$ cd ..  
sushmithav@Sushmithav: $ minikube start  
👉 minikube v1.35.0 on Ubuntu 24.04 (amd64)  
🔧 Using the docker driver based on existing profile  
🔥 Starting "minikube" primary control-plane node in "minikube" cluster  
📦 Pulling base image v0.0.46 ...  
🌟 Updating the running docker "minikube" container ...  
🔧 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...  
🔧 Verifying Kubernetes components...  
  * Using image docker.io/kubernetes/metrics-scrapers:v1.0.8  
  * Using image docker.io/kubernetes/dashboard:v2.7.0  
  * Using image gcr.io/k8s-minikube/storage-provisioner:v5  
🔧 Some dashboard features require the metrics-server addon. To enable all features please run:  
  
    minikube addons enable metrics-server  
  
🌟 Enabled addons: storage-provisioner, dashboard, default-storageclass  
🔧 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default  
sushmithav@Sushmithav: $ sudo nano nginx-deployment.yaml  
[sudo] password for sushmithav:  
sushmithav@Sushmithav: $ sudo nano service.yaml  
sushmithav@Sushmithav: $
```

TASK 3 MINIKUBE

```
sushmithav@Sushmithav: ~$ kubectl apply -f nginx-deployment.yaml
deployment.apps/my-app created
sushmithav@Sushmithav: ~$ kubectl apply -f service.yaml
service/my-app created
sushmithav@Sushmithav: ~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
my-app-bdd964c46-hnbf              0/1     ContainerCreating   0           26s
sushmithav@Sushmithav: ~$ kubectl get svc my-app
NAME    TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
my-app  NodePort    10.109.95.234 <none>        80:30391/TCP 25s
sushmithav@Sushmithav: ~$ minikube service my-app --url
http://127.0.0.1:40295
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.
sushmithav@Sushmithav: ~$ curl http://127.0.0.1:40295
curl: (7) Failed to connect to 127.0.0.1 port 40295 after 0 ms: Couldn't connect to server
sushmithav@Sushmithav: ~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
sushmithav@Sushmithav: ~$ curl http://127.0.0.1:40295:80
curl: (3) URL rejected: Port number was not a decimal number between 0 and 65535
sushmithav@Sushmithav: ~$ kubectl get services
NAME    TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
kubernetes ClusterIP  10.96.0.1     <none>        443/TCP      25m
my-app  NodePort    10.109.95.234 <none>        80:30391/TCP 2m21s
sushmithav@Sushmithav: ~$ kubectl port-forward deployment/my-app 10003:80
error: the server doesn't have a resource type "deployment"
sushmithav@Sushmithav: ~$ kubectl port-forward deployment/my-app 30004:80
error: the server doesn't have a resource type "deployment"
sushmithav@Sushmithav: ~$ kubectl port-forward deployment/my-app 30001:30
error: the server doesn't have a resource type "deployment"
sushmithav@Sushmithav: ~$ kubectl get deployments
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
my-app  1/1     1             1           3m50s
```

```
sushmithav@Sushmithav: ~$ kubectl port-forward deployment/my-app 30001:80
Forwarding from 127.0.0.1:30001 -> 80
Forwarding from [::1]:30001 -> 80
Handling connection for 30001
Handling connection for 30001
Handling connection for 30001
```

```
sushmithav@Sushmithav: ~$ minikube service my-app
NAMESPACE | NAME | TARGET PORT | URL
-----|-----|-----|-----
default | my-app | 80 | http://192.168.49.2:30391
Starting tunnel for service my-app.
NAMESPACE | NAME | TARGET PORT | URL
-----|-----|-----|-----
default | my-app | 80 | http://127.0.0.1:33671
Opening service default/my-app in default browser...
http://127.0.0.1:33671
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.
```

```
sushmithav@Sushmithav: ~$ curl http://127.0.0.1:30001
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Jenkins Docker Test</title>
</head>
<body>
  <h1>Hello from Docker with Jenkins!</h1>
</body>
</html>
```



Hello from Docker with Jenkins!

TASK 3 MINIKUBE