

# DEPLOYMENT OF APP IN IBM CLOUD

## DEPLOY IN KUBERNETES CLUSTER

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Project Name	News Tracker Application

The screenshot shows the IBM Cloud Clusters overview page for a cluster named 'mycluster-free'. The cluster is in a 'Normal' state and expires in 29 days. The page displays various status metrics and details.

**Cluster Overview:**

- Cluster ID: cdqbm83f0kco0bunjdrjg
- Version: 1.24.7\_1542
- Infrastructure: Classic
- Zones: Milan 01
- Created: 11/16/2022, 3:57 PM
- Resource group: Default
- Image security enforcement: Enable

**Status Metrics:**

- Node status: 1 of 1 Normal
- Add-on status: 0 of 0 Normal
- Master status: Normal
- Ingress status: Healthy

The screenshot shows the IBM Cloud Resource list page. It displays a table of resources categorized by type, with filters for name, group, location, product, status, and tags.

**Resource List:**

Name	Group	Location	Product	Status	Tags
Compute (0)					
Containers (2)					
mycluster-free	Default	Frankfurt	Kubernetes Service	Normal	-
shobsassgn	Default	Tokyo	Container Registry	-	-
Networking (0)					
Storage (1+)					
AI / Machine Learning (1+)					
Analytics (0)					
Blockchain (0)					
Databases (1+)					
Developer tools (0)					

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Org:
Space:
PS D:\IBM\Assignment_4> kubectl config get-contexts
CURRENT   NAME          NAMESPACE          CLUSTER              AUTHINFO
*         docker-desktop  docker-desktop      docker-desktop      docker-desktop
          mycluster-free/cdqbm83f0kco0bunjdrj  mycluster-free/cdqbm83f0kco0bunjdrj  shobikavenkat02@gmail.com/22ae167894ad4cd189a37bc305b251b8/iam
.cloud.ibm.com-identity  default
PS D:\IBM\Assignment_4> kubectl config use-context docker-desktop
Switched to context "docker-desktop".
PS D:\IBM\Assignment_4> kubectl apply -f kubernetes/ibm_deployment.yaml
deployment.apps/flask-app unchanged
PS D:\IBM\Assignment_4> kubectl apply -f kubernetes/flask_service.yaml
service/flask-app-service unchanged
PS D:\IBM\Assignment_4> kubectl apply -f kubernetes/flask_ingress.yaml
ingress.networking.k8s.io/flask-app-ingress unchanged
PS D:\IBM\Assignment_4> kubectl get ing
NAME          CLASS  HOSTS  ADDRESS  PORTS  AGE
flask-app-ingress  <none>  *      80      18h
PS D:\IBM\Assignment_4> kubectl get svc
NAME          TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)    AGE
flask-app-service  ClusterIP    10.106.89.63  <none>         5000/TCP   18h
kubernetes      ClusterIP    10.96.0.1     <none>         443/TCP    19h
PS D:\IBM\Assignment_4> kubectl get nodes -o wide
NAME          STATUS    ROLES    AGE    VERSION    INTERNAL-IP    EXTERNAL-IP    OS-IMAGE          KERNEL-VERSION    CONTAINER-RUNTIME
docker-desktop  Ready    control-plane  19h    v1.25.2    192.168.65.4   <none>         Docker Desktop    5.10.16.3-microsoft-standard-WSL2  docker://20.10.20
PS D:\IBM\Assignment_4>

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