

# 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 dashboard for a cluster named 'mycluster-free'. The cluster is in a 'Normal' state and is scheduled to expire in 30 days. The dashboard provides an overview of the cluster's status, including node status (1 of 1 Normal), add-on status (0 of 0 Normal), master status (Normal), and ingress status (Healthy). It also displays details such as the cluster ID, version (1.24.8\_1544), infrastructure (Classic), zones (Milan 01), creation time (11/17/2022, 8:08 PM), and resource group (Default). A 'Node health' section shows 1 total node with a green bar indicating good health. A warning banner at the top states: 'Expires in 30 days: Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.'

The screenshot shows the IBM Cloud Resource list page. The page displays a table of resources with columns for Name, Group, Location, Product, Status, and Tags. The resources are categorized by type, such as Compute, Containers, Networking, Storage, AI / Machine Learning, Analytics, Blockchain, Databases, Developer tools, Logging and monitoring, and Migration. The 'mycluster-free' cluster is listed under the 'Containers' category with a status of 'Normal'. The 'Cloud Object Storage' resource is listed under the 'Storage' category with a status of 'Active'.

```

Org:
Space:
PS D:\IBM\Assignment_4> kubectl config get-contexts
CURRENT   NAME                                     CLUSTER                                     AUTHINFO
*          docker-desktop                         docker-desktop                             docker-desktop
          mycluster-free/cdqbm83f0kco0bunjdr     mycluster-free/cdqbm83f0kco0bunjdr     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>

```