

Deploy In Kubernetes Cluster

1.Create a Kubernetes cluster

The screenshot shows the IBM Cloud 'Kubernetes cluster' creation page. The browser tabs include 'IBM', 'Archived | Deploy a simple...', 'WhatsApp', 'IBM-Project-49916-1660', and 'Create a Cluster - IBM Cloud'. The URL is 'cloud.ibm.com/kubernetes/catalog/create'. The page features a 'Create' button and a 'Pricing plan' dropdown set to 'Free'. A message states: 'You have already created your one free cluster. Ready to create more clusters? Choose the Standard cluster type.' The right sidebar shows a 'Summary' for a 'Kubernetes cluster' with a 'Worker node' (Free, 2 vCPUs, 4GB RAM, Virtual - shared, Ubuntu 18). The 'Total estimated cost' is 'Free/mo'. A 'Create' button is visible at the bottom of the sidebar.

Kubernetes cluster

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Create About

Deliver your apps quicker across clouds with **Red Hat OpenShift**

Plan details

Learn more about the differences between plans in our [docs](#).

Pricing plan

Free

You have already created your one free cluster
Ready to create more clusters? Choose the Standard cluster type.

Summary United States

Kubernetes cluster

1 **Worker node** Free

Free - 2 vCPUs 4GB RAM
Virtual - shared
Ubuntu 18

Total estimated cost Free/mo

Additional charges for [networking and bandwidth](#) might apply.
Actual monthly total will vary with [tiered pricing](#).
Estimate does not include costs for integrations.

Create

Add to estimate

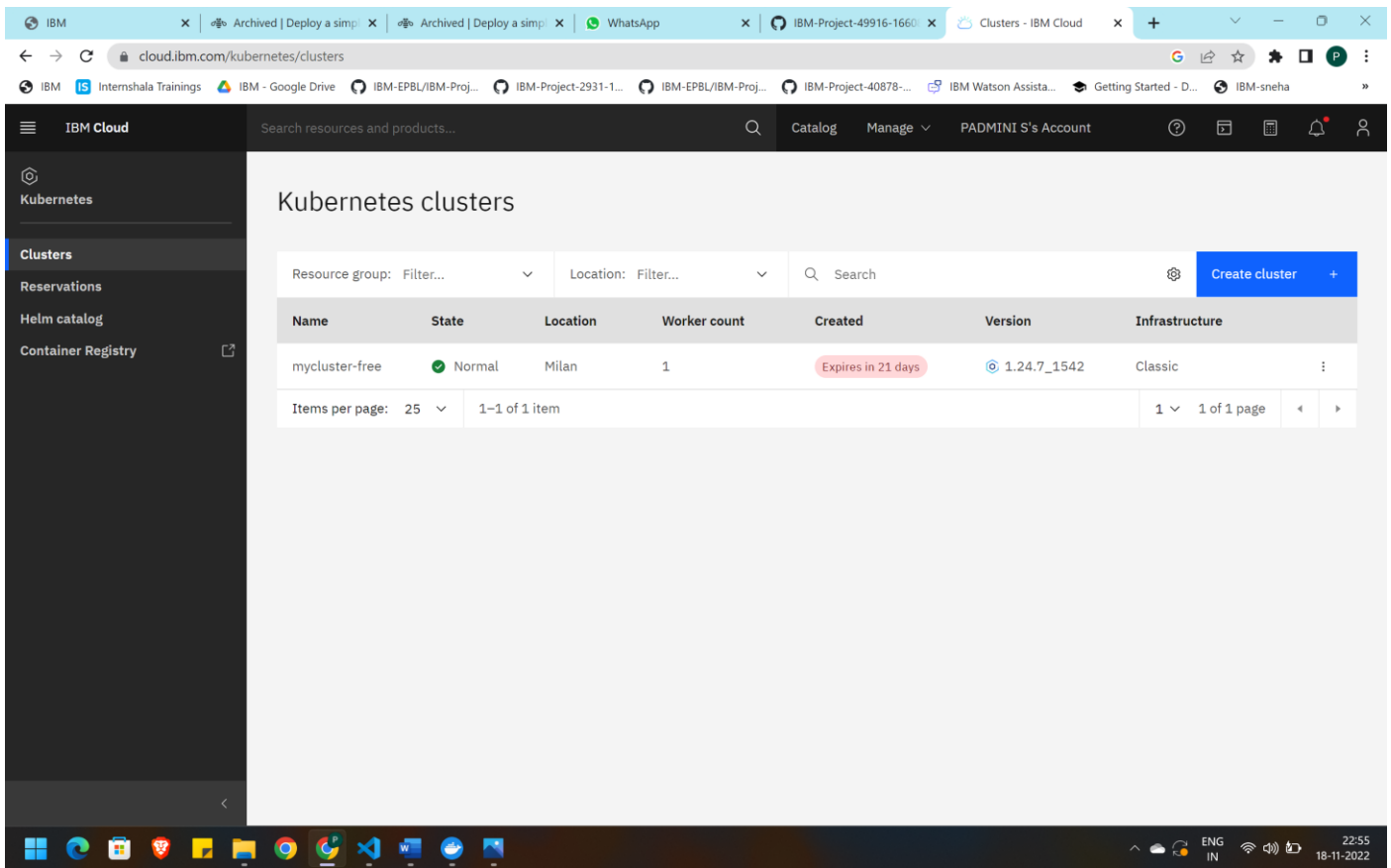
The screenshot shows the IBM Cloud 'Kubernetes clusters' management page. The browser tabs include 'IBM', 'Archived | Deploy a simple...', 'WhatsApp', 'IBM-Project-49916-1660', and 'Clusters - IBM Cloud'. The URL is 'cloud.ibm.com/kubernetes/clusters'. The page displays a table of clusters with columns: Name, State, Location, Worker count, Created, Version, and Infrastructure. A 'Create cluster' button is visible in the top right. The table shows one cluster named 'mycluster-free' with a state of 'Normal' and a location of 'Milan'. The 'Created' column indicates 'Expires in 21 days'. The 'Version' is '1.24.7_1542' and the 'Infrastructure' is 'Classic'.

Kubernetes clusters

Resource group: Filter... Location: Filter... Search Create cluster +

Name	State	Location	Worker count	Created	Version	Infrastructure
mycluster-free	Normal	Milan	1	Expires in 21 days	1.24.7_1542	Classic

Items per page: 25 1-1 of 1 item



2.Create configuration files for Kubernetes

Deployment.yaml

```
apiVersion: extensions/v1beta1
kind: Deployment
metadata:
  name: flask-node-deployment
spec:
  replicas: 1
  selector:
    matchLabels:
      app: flasknode
  template:
    metadata:
      labels:
        app: flasknode
    spec:
      containers:
        - name: flasknode
          image: registry.ng.bluemix.net/flask-node/app
          imagePullPolicy: Always
          ports:
            - containerPort: 5000
```

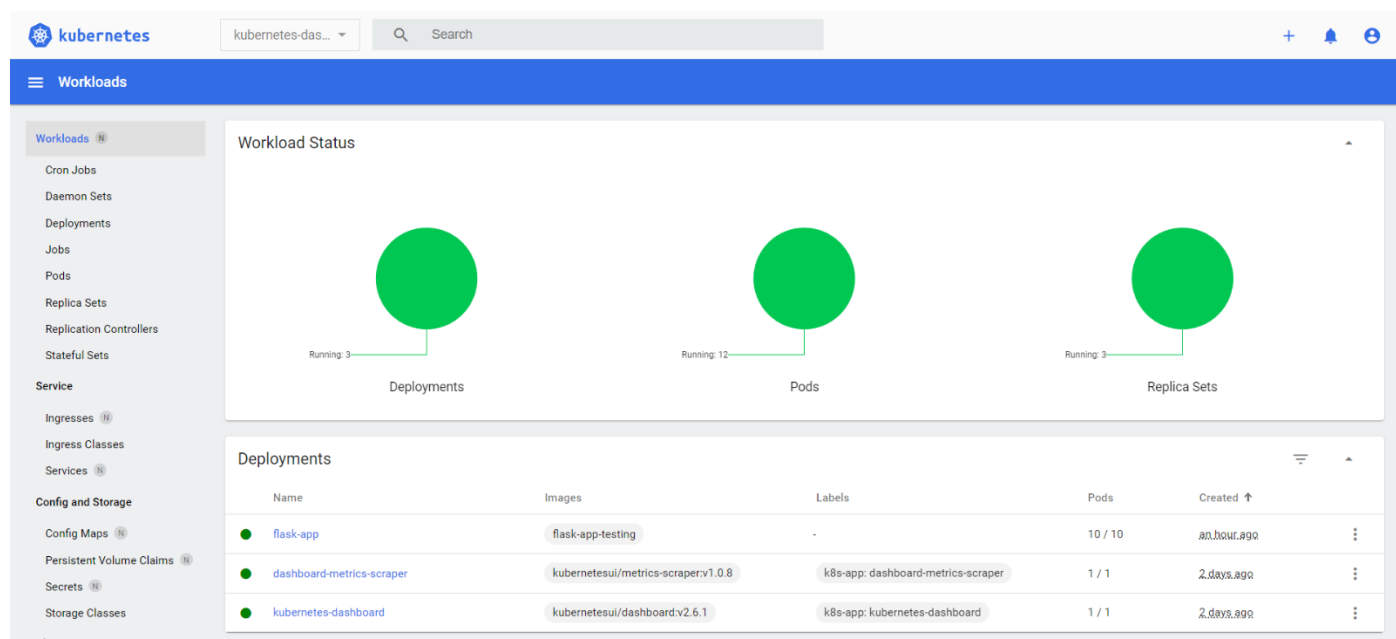
service.yaml

```

apiVersion: v1
kind: Service
metadata:
  name: flask-node-deployment
spec:
  ports:
    - port: 5000
      targetPort: 5000
  selector:
    app: flasknode

```

3.Look at the Kubernetes dashboard from the IBM Kubernetes Service overview page.



4.Finally, go to your browser and ping the Public IP of your worker node.

