


**Deployment of App in IBM Cloud**  
**Upload image to IBM Container Registry**

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**Push the image to the IBM Cloud Registry**



 Containers

Overview

Clusters


Registry 

Quick Start

**Private Repositories**

IBM Public Repositories

Namespaces

Vulnerability Advisor 

Solutions 

## Code

```
ibmcloud plugin install container-registry -r "IBM Cloud"
```

```
ibmcloud login -a <cloud_foundary_end_point_for_the_region>
```

```
ibmcloud cr namespace-add <namespace>
```

```
ibmcloud cr namespace-add <namespace>
```

```
docker tag <image_name> <region_url>/<namespace>/<image_name>:<tag>
```

```
docker push <region_url>/<namespace>/<image_name>:<tag>
```

```
ibmcloud cr image-list
```

```
kanalis-nbpweb@kanalis-hutro$ docker push registry.ng.bluemix.net/flask-node/app:latest
The push refers to repository [registry.ng.bluemix.net/flask-node/app]
c095410b27c1: Pushed
b95de258728: Pushed
d3794b4e234: Pushed
ba883a50644: Pushed
988a0f3779: Layer already exists
7bac94bc283: Layer already exists
1177bcd1177f: Layer already exists
8a043a64a54: Layer already exists
1fa8774b779: Layer already exists
fab3f992c0d: Layer already exists
ce6460f43b11: Layer already exists
713643089a35: Layer already exists
3d5d514d99e: Layer already exists
latest: digest: sha256:5015254c21582b5a083d8702b74dad763e97e8005bd9187afa2a0433b6d2ae size: 3061
kanalis-nbpweb@kanalis-hutro$
```

```
kanalis-nbpweb@kanalis-hutro$ docker cr image-list
Listing images...
+-----+-----+-----+-----+-----+-----+-----+
| IMAGEID | TAG | IMAGE SIZE | NAMESPACE | CREATED | SIZE | SECURITY STATUS |
+-----+-----+-----+-----+-----+-----+-----+
| registry.ng.bluemix.net/flask-node/app | latest | 377.1MB | flask-node | 1 day ago | 306 MB | 2 Images |
+-----+-----+-----+-----+-----+-----+-----+
kanalis-nbpweb@kanalis-hutro$
```

## 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

## **Deploy your application to Kubernetes**

