

## Deployment of App in IBM Cloud

### Upload image to IBM Container Registry

Push the image to the IBM Cloud Registry



## Code

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

```
ibmcloud login -a <cloud_foundry_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
```

```
kurita@bpcweb:~/cloud/hotrod$ docker push registry.ng.bluemix.net/flask-node/app:latest
The push refers to repository [registry.ng.bluemix.net/flask-node/app]:
ca89418b27c3: Pushed
f992ca228b38: Pushed
637944ba4234: Pushed
1a0f82a5b064: Pushed
1889a2f3739: Layer already exists
7ba3b49c283: Layer already exists
1177bc01177f: Layer already exists
8a04c3a8b464: Layer already exists
1fa8778eb779: Layer already exists
fab3f7902c0d: Layer already exists
ca6460f43011: Layer already exists
718649089035: Layer already exists
3b1851de990e: Layer already exists
latest: digest: sha256:3815c9412135219a083188792b744a1763e97e00c9e01870fa2d8433bd020e size: 5861
kurita@bpcweb:~/cloud/hotrod$
```

```
kurita@bpcweb:~/cloud/hotrod$ docker cr image-list
Listing images...
+-----+-----+-----+-----+-----+-----+-----+
| IMAGE NAME | TAG | IMAGE ID | NAMESPACE | DETAILS | SIZE | SECURITY STATUS |
+-----+-----+-----+-----+-----+-----+-----+
| registry.ng.bluemix.net/flask-node/app | latest | 377c017001d8 | flask-node | 1 day ago | 204 MB | 2 Inspect |
+-----+-----+-----+-----+-----+-----+-----+
kurita@bpcweb:~/cloud/hotrod$
```

## 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

