

## Upload Image To IBM Container

Team ID	PNT2022TMID03890
Project Name	Smart Fashion Recommender Application

### CREATING IMAGE IN DOCKER:

```
C:\Users\musammil-pt5773\Desktop\Python>docker build -t flask_ibm .
[+] Building 169.7s (11/11) FINISHED
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 186B                                              0.0s
=> [internal] load .dockerignore                                                  0.0s
=> => transferring context: 2B                                                    0.0s
=> [internal] load metadata for docker.io/library/python:3.10.6                 31.8s
=> [auth] library/python:pull token for registry-1.docker.io                   0.0s
=> [1/5] FROM docker.io/library/python:3.10.6@sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a240d29677cb03e6aa 0.0s
=> [internal] load build context                                                  0.1s
=> => transferring context: 165.57kB                                             0.1s
=> CACHED [2/5] WORKDIR /app                                                      0.0s
=> [3/5] COPY requirements.txt ./                                                 0.1s
=> [4/5] RUN pip install -r requirements.txt                                     135.0s
=> [5/5] COPY . .                                                                0.1s
=> exporting to image                                                            2.4s
=> => exporting layers                                                            2.3s
=> => writing image sha256:a595cf92272a304b646caa4aff9e0ae08b94b3e5092059d91bce38c2248f161f 0.0s
=> => naming to docker.io/library/flask_ibm                                     0.0s
```

## CONTAINERISING THE IMAGE:

```
C:\Users\musammil-pt5773\Desktop\Python>docker run -p 5000:5000 flask_ibm
* Serving Flask app 'Hello'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.2:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 883-075-625
172.17.0.1 - - [18/Nov/2022 12:23:13] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 12:23:13] "GET /static/images/adminad.jfif HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 12:23:14] "GET /favicon.ico HTTP/1.1" 404 -
172.17.0.1 - - [18/Nov/2022 12:23:15] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 12:23:15] "GET /static/images/adminad.jfif HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 12:23:18] "GET /login HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 12:23:18] "GET /static/css/login.css HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 12:23:18] "GET /static/images/gradient-cactus.jpg HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 12:23:27] "POST /check HTTP/1.1" 302 -
172.17.0.1 - - [18/Nov/2022 12:23:28] "GET /admin HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 12:23:47] "GET /logout HTTP/1.1" 302 -
172.17.0.1 - - [18/Nov/2022 12:23:47] "GET /login HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 12:23:47] "GET /static/css/login.css HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 12:23:47] "GET /static/images/gradient-cactus.jpg HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 12:23:57] "POST /check HTTP/1.1" 302 -
172.17.0.1 - - [18/Nov/2022 12:23:57] "GET /home HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 12:23:57] "GET /static/images/codetree.jpg HTTP/1.1" 200 -
```

SING THE IMAGE:

Containers































[Give feedback](#)

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

☐

Only show running containers

Search

		NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>		<b>strange_hoover</b> e59664391861 	<a href="#">docker/getting-started:latest</a>	Exited (255)	80:80 		  
<input type="checkbox"/>		<b>pensive_shockley</b> e98df1336b2f 	<a href="#">flask_ibm:latest</a>	Exited	5000:5000 		  
<input type="checkbox"/>		<b>elated_aryabhata</b> 98f0211cc3ad 	<a href="#">flask_with_ibm_db2:latest</a>	Exited (1)	5001:5001 		  
<input type="checkbox"/>		<b>fervent_mccarthy</b> 4654d8e61ef3 	<a href="#">flask_with_ibm_db2:latest</a>	Exited (1)	5001:5001 		  
<input type="checkbox"/>		<b>interesting_shirley</b> 173ef9a28fed 	<a href="#">hello_world:latest</a>	Exited (137)	5002:5002 		  

IBM CLOUD CR LOGIN:

```
C:\Users\musammil-pt5773\Desktop\Python>ibmcloud login
```

```
API endpoint: https://cloud.ibm.com
```

```
Email> sec19cs069@sairamtap.edu.in
```

```
Password>
```

```
Authenticating...
```

```
Credentials were rejected.
```

```
Code: BXNIM0602E, message: The credentials you entered for the user 'sec19cs069@sairamtap.edu.in' are incorrect.
```

```
Password>
```

```
Authenticating...
```

```
Credentials were rejected.
```

```
Code: BXNIM0602E, message: The credentials you entered for the user 'sec19cs069@sairamtap.edu.in' are incorrect.
```

```
Password>
```

```
Authenticating...
```

```
OK
```

```
Targeted account Mohamed Musammil's Account (f573a30aa84f432a91a05468f825e886)
```

# CREATING REPOSITORY IN IBM CLOUD:

Location

Tokyo

Resource group: Filter...

Search



Create



Name

Resource group

Repository count

Image count

Retention policy



flask-with-ibm

Default

1

1

Retain all images



Items per page: 10



1-1 of 1 item

1



1 of 1 page



Location

Tokyo



Search



Create



Name

Image count

Namespace

Last updated



**flask\_ibm**

jp.icr.io/flask-with-ibm/flask\_ibm

1

flask-with-ibm

3 hours ago



Items per page:

25



1-1 of 1 item

1







1 of 1 page



## UPLOAD IMAGE TO IBM CONTAINER REGISTRY:

Location: Tokyo

View by: Digest Search Create +

<input type="checkbox"/>	Repository@digest	Tags	Manifest type	Created	Size	Security status
<input type="checkbox"/>	 flask-with-ibm/flask_ibm@sha256:b61b3b81dd88...	latest 	Docker	3 hours ago	449 MB	 26 issues 

Items per page: 25 1-1 of 1 item 1 1 of 1 page

## PUSHING IMAGE TO IBM CONTAINER REGISTRY:

```
C:\Users\musammil-pt5773\Desktop\Python>ibmcloud login
```

```
API endpoint: https://cloud.ibm.com
```

```
Email> sec19cs069@sairamtap.edu.in
```

```
Password>
```

```
Authenticating...
```

```
Credentials were rejected.
```

```
Code: BXNIM0602E, message: The credentials you entered for the user 'sec19cs069@sairamtap.edu.in' are incorrect.
```

```
Password>
```

```
Authenticating...
```

```
Credentials were rejected.
```

```
Code: BXNIM0602E, message: The credentials you entered for the user 'sec19cs069@sairamtap.edu.in' are incorrect.
```

```
Password>
```

```
Authenticating...
```

```
OK
```

```
Targeted account Mohamed Musammil's Account (f573a30aa84f432a91a05468f825e886)
```



Clusters

Registry

Vulnerability Advisor

Solutions



## IBM Cloud Kubernetes Service

Your Kubernetes clusters will live here after you create them.

Create cluster

← View All



## Create new cluster

Region

US South

### Cluster type

Free

New to Kubernetes? Create a cluster with 1 worker node to explore the capabilities.

Free

Standard

Ready for production? Create a fully-customizable cluster with your choice of hardware isolation.

Starting from \$0.11 hourly

Cluster name

mycluster

Create Cluster

### Order Summary

Free

1 worker node

Free

Total:

Free

Create Cluster

Need help? [Contact IBM Cloud Sales](#)



cluster\_kunal

Expires in a month

● Normal

Kubernetes Dashboard



Access

Overview

Worker Nodes

Worker Pools

Services

### Summary

Cluster ID	1f9e73a29629417f9a88b2e48bf2f571
Kubernetes version	1.9.8_1515
Zones	hou02
Owner	Kunal.Malhotra1@ibm.com

### Worker Nodes



1 ● Normal  
0 ● Warning  
0 ● Critical  
0 ● Pending

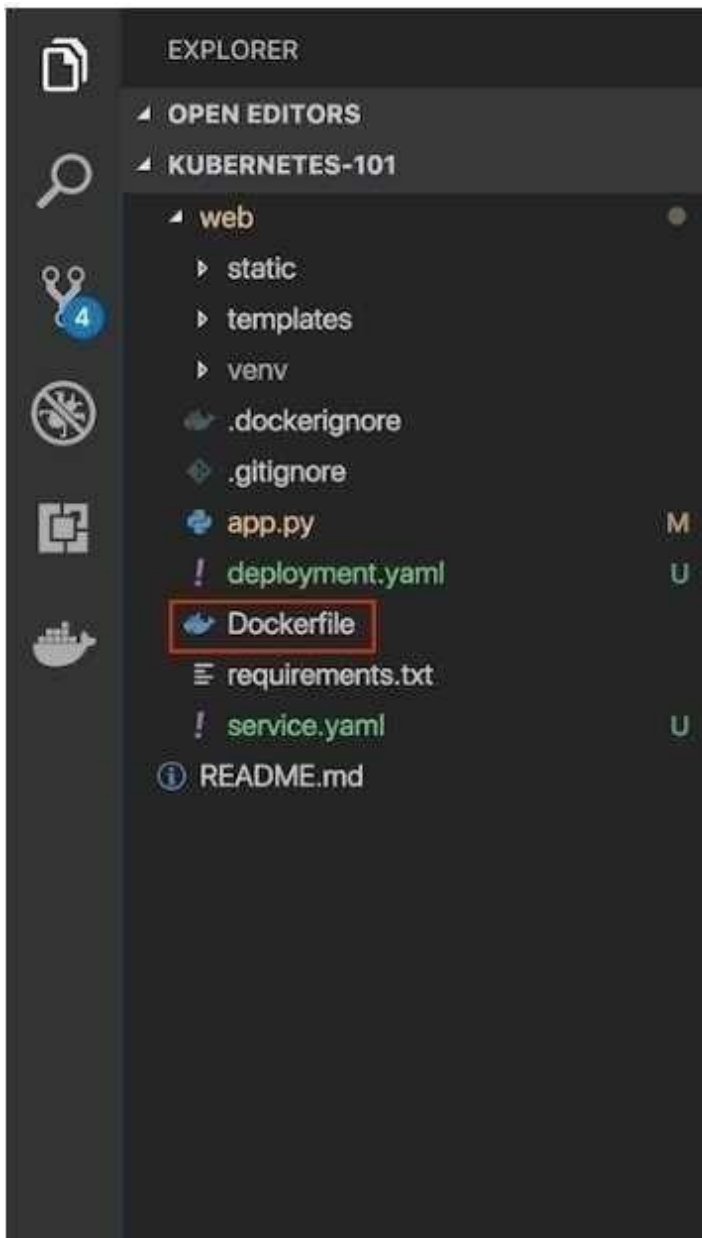
Search

Add Nodes 

<input type="checkbox"/>	Name	Status	Worker Pool	Zone	Private IP	Public IP	Kubernetes Version
<input type="checkbox"/>	w1	Normal	default	hou02	10.47.79.201	184.172.233.151	1.9.8_1517

Items per page: 10 | 1 of 1 items

1 of 1 pages



## DEPLOY IN KUBERNETES CLUSTER

Hostname: echoserver-deployment-859b75d8c4-w75jn

### Pod Information:

node name: 10.94.21.13  
pod name: echoserver-deployment-859b75d8c4-w75jn  
pod namespace: default  
pod IP: 172.30.45.7

### Server values:

server\_version=nginx: 1.13.3 - lua: 10008

### Request Information:

client\_address=172.30.45.5  
method=GET  
real\_path=/  
query=  
request\_version=1.1  
request\_scheme=http  
request\_url=http://echoserver.arpad-ipv6-test-aug14.us-south.containers.appdomain.cloud:8080/

### Request Headers:

accept=/\*/\*  
host=echoserver.arpad-ipv6-test-aug14.us-south.containers.appdomain.cloud  
user-agent=curl/7.54.0  
x-forwarded-for=195.217.100.100  
x-forwarded-host=echoserver.arpad-ipv6-test-aug14.us-south.containers.appdomain.cloud  
x-forwarded-port=443  
x-forwarded-proto=https  
x-global-k8s-idc-transaction-id=fc9b6d1faac1b7b63bf96abf02396378  
x-real-ip=195.217.100.100

### Request Body:

-no body in request-

```
$ curl http://169.61.18.4:1884
```

```
Hostname: echoserver-deployment-859b75d8c4-r6s62
```

#### Pod Information:

```
node name:      10.73.115.27
pod name:       echoserver-deployment-859b75d8c4-r6s62
pod namespace:  default
pod IP: 172.30.154.209
```

#### Server values:

```
server_version=nginx: 1.13.3 - lua: 10008
```

#### Request Information:

```
client_address=195.21.195.21
method=GET
real path=/
query=
request_version=1.1
request_scheme=http
request_uri=http://169.61.18.4:8080/
```

#### Request Headers:

```
accept=/*/*
host=169.61.18.4:1884
user-agent=curl/7.54.0
```

#### Request Body:

```
-no body in request-
```

```
$ curl https://echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud
```

Hostname: echoserver-deployment-859b75d8c4-d6fdx

Pod Information:

node name: 10.73.115.19  
pod name: echoserver-deployment-859b75d8c4-d6fdx  
pod namespace: default  
pod IP: 172.30.116.132

Server values:

server\_version=nginx: 1.13.3 - lua: 10008

Request Information:

client\_address=172.30.119.129  
method=GET  
real path=/  
query=  
request\_version=1.1  
request\_scheme=http  
request\_uri=http://echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud:8080/

Request Headers:

accept=/\*/\*  
host=echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud  
user-agent=curl/7.54.0  
x-forwarded-for=10.184.100.58  
x-forwarded-host=echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud  
x-forwarded-port=443  
x-forwarded-proto=https  
x-global-k8fdic-transaction-id=838e8708691877e04ac7448370362e22  
x-real-ip=10.184.100.58

Request Body:

-no body in request-