

PROJECT DEVELOPMENT PHASE

Deployment of app in IBM cloud

SPRINT-4(Final Version)

Date	19 November 2022
Team ID	PNT2022TMID08555
Project Name	Skill / Job Recommender Application

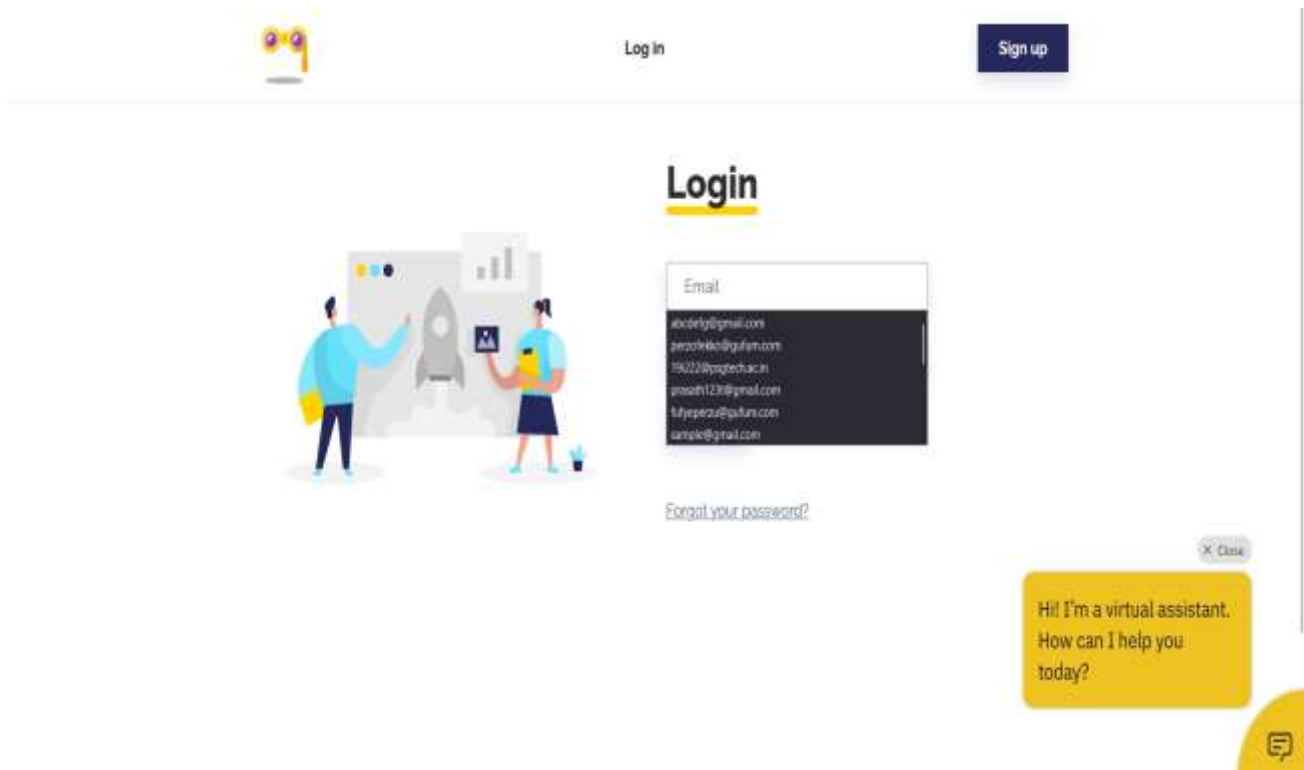
Containerize the App

<input type="checkbox"/>	NAME	TAG	STATUS	CREATED	SIZE	ACTIONS
<input type="checkbox"/>	de.icr.io/dream-team/python-docker 07739dab6d33	latest	In use	about 2 hours ago	1.26 GB	

```
D:\Final version of IBM Job Recommendation work\Final>docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
e918443dca13	python-docker	"python -m flask run..."	4 minutes ago	Up 4 minutes	0.0.0.0:5000->5000/tcp	zen_shannon

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						
<input type="radio"/>	Only show running containers		<input type="text" value="Search"/>			
<input type="checkbox"/>	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	zen_shannon e918443dca13	de.icr.io/dream-team/python-docker	Running	5000-5000	8 minutes ago	



Installing the required plugins to connect with Kubernetes

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud plugin install container-service
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' was already installed. Do you want to re-install it or not? [
y/N] > y
Attempting to download the binary file...
 26.86 MiB / 26.86 MiB [=====] 100.00% 23s
28168192 bytes downloaded
Installing binary...
OK
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\prasa\.bluemix\plugins\container-service. U
se 'ibmcloud plugin show container-service' to show its details.

D:\Final version of IBM Job Recommendation work\Final>ibmcloud plugin install observe-service
Looking up 'observe-service' from repository 'IBM Cloud'...
Plug-in 'observe-service 1.0.82' found in repository 'IBM Cloud'
Attempting to download the binary file...
 13.38 MiB / 13.38 MiB [=====] 100.00% 7s
14024704 bytes downloaded
Installing binary...
OK
Plug-in 'observe-service 1.0.82' was successfully installed into C:\Users\prasa\.bluemix\plugins\observe-service. Use 'i
bmcloud plugin show observe-service' to show its details.
```

Connecting to IBM Cloud using cli

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud login -a cloud.ibm.com -r eu-de -g Default
API endpoint: https://cloud.ibm.com

Email> vasantias52@gmail.com

Password>
Authenticating...
OK

Targeted account VASANTH R's Account (f02ea53b46f94e07a3cb78142de29d94)

Targeted resource group Default

Targeted region eu-de

API endpoint:      https://cloud.ibm.com
Region:           eu-de
User:             vasantias52@gmail.com
Account:          VASANTH R's Account (f02ea53b46f94e07a3cb78142de29d94)
Resource group:   Default
CF API endpoint:
Org:
Space:

D:\Final version of IBM Job Recommendation work\Final>ibmcloud ks cluster config --cluster cdn8ksdf0kmqti41i5h0
OK
```

Configuring the cluster

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud ks cluster config --cluster cdn8ksdf0kmqti41i5h0
OK
The configuration for cdn8ksdf0kmqti41i5h0 was downloaded successfully.

Added context for cdn8ksdf0kmqti41i5h0 to the current kubeconfig file.
You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.
If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.

D:\Final version of IBM Job Recommendation work\Final>kubectl config current-context
mycluster-free/cdn8ksdf0kmqti41i5h0
```

Adding namespace and logging to docker

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud cr namespace-add dream-team
Adding namespace 'dream-team' in resource group 'Default' for account VASANTH R's Account in registry de.icr.io...

Successfully added namespace 'dream-team'

OK

D:\Final version of IBM Job Recommendation work\Final>ibmcloud cr login
Logging 'docker' in to 'de.icr.io'...
Logged in to 'de.icr.io'.

OK
```

Tagging and pushing the image using docker

```
D:\Final version of IBM Job Recommendation work\Final>docker tag python-docker de.icr.io/dream-team/python-docker:latest

D:\Final version of IBM Job Recommendation work\Final>docker push de.icr.io/dream-team/python-docker:latest
The push refers to repository [de.icr.io/dream-team/python-docker]
18a77b7592f7: Pushed
e5a5f7fd7fc1: Pushed
191fecf6c431: Pushed
b785e3b4b157: Pushed
4c9ede4ddbda: Pushed
c134b6c064f6: Pushed
8eb8b96ceebb: Pushed
d62f0ea9a15e: Pushed
9978d084fd77: Pushed
1191b3f5862a: Pushed
08a01612ffca: Pushed
8bb25f9cdc41: Pushed
f715ed19c28b: Pushed
latest: digest: sha256:fb44f87ee055ba7d82afb797a1842789c54b5acdc1b2dd7f2fd8bbbed354c2e14 size: 3055
```

We can view the list of images that are there in the container

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud cr image-list
Listing images...

Repository          Tag      Digest      Namespace    Created      Size      Security status
de.icr.io/dream-team/python-docker latest    fb44f87ee055 dream-team    2 hours ago  522 MB    -

OK
```

Kubernetes configuration

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud ks cluster config --cluster cdn8ksdf0kmqti41i5h0
OK
The configuration for cdn8ksdf0kmqti41i5h0 was downloaded successfully.

Added context for cdn8ksdf0kmqti41i5h0 to the current kubeconfig file.
You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.
If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.

D:\Final version of IBM Job Recommendation work\Final>kubectl config current-context
mycluster-free/cdn8ksdf0kmqti41i5h0

D:\Final version of IBM Job Recommendation work\Final>kubectl get nodes
NAME                STATUS    ROLES    AGE    VERSION
10.144.183.114      Ready    <none>    129m   v1.24.7+IKS
```

```
D:\Final version of IBM Job Recommendation work\Final>kubectl create -f deployment.yaml
deployment.apps/flask-node-deployment created
```

```
D:\Final version of IBM Job Recommendation work\Final>kubectl create -f service.yaml
service/flask-node-deployment created
```

kubernetes default Q Search + 🔔

Workloads

- Workloads
- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- Stateful Sets
- Service
- Ingresses
- Ingress Classes
- Services
- Config and Storage
- Config Maps
- Persistent Volume Claims

Workload Status

Running 1 Deployments Running 1 Pods Running 1 Replica Sets

Deployments

Name	Images	Labels	Pods	Created ↑
task-node-deployment	de.icr.io/dream-team/python-docker:latest		1 / 1	8 hours ago

Deployments

Name	Images	Labels	Pods	Created ↑
task-node-deployment	de.icr.io/dream-team/python-docker:latest		1 / 1	8 hours ago

Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created ↑
task-node-deployment-7b77d18f8	de.icr.io/dream-team/python-docker:latest	app: python-docker	10.144.183.114	Running	0	1.00m	87.53MB	8 hours ago

Replica Sets

Name	Images	Labels	Pods	Created ↑
task-node-deployment-7b77d18f8	de.icr.io/dream-team/python-docker:latest		1 / 1	8 hours ago



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Vasanth and Team...



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4+ Yrs: Chennai Location

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