

Deploy in Kubernetes Cluster

Date	19 November 2022
Team ID	PNT2022TMID12507
Project Name	News Tracker Application

deployment.yaml:

```
deployment.yaml
1  apiVersion: apps/v1
2  kind: Deployment
3  metadata:
4    name: cad-newstracker-deployment
5  spec:
6    replicas: 1
7    selector:
8      matchLabels:
9        app: newstracker
10   template:
11     metadata:
12       labels:
13         app: newstracker
14     spec:
15       containers:
16       - name: newstracker
17         image: us.icr.io/newstracker/cad
18         imagePullPolicy: Always
19         ports:
20         - containerPort: 5000
```

Enter `ibmcloud ks cluster config -c <cluster_id>` to connect with the kubernetes cluster created in the IBM Cloud.

Then execute this command `Create -f deployment.yaml`

After deploying, expose the application to public using the command;
`kubectl expose deployment news-tracker-1 --type=NodePort --name=news-tracker-1`

Kubernetes Cluster Worker Node

Pool: Filter...

Search

Add

<div></div>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<div></div>	000000b1	<div></div> Normal	default	Milan 01	10.144.217.52	159.122.179.63	1.24.8_154

Items per page: 25

1–1 of 1 item

1

1 of 1 page

Kubernetes Dashboard

kubernetes

default

Search

Workloads

Workload Status

Running 1

Deployments

Running 1

Pods

Running 1

Replica Sets

Deployments

Name	Images	Labels	Pods	Created
<div></div> news-tracker-1	Show all	-	1 / 1	3 hours ago

Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created
<div></div> news-tracker-1-5d5c744948-b8wm	Show all	Show all	10.144.217.52	Running	0	24.00m	68.43Mi	3 hours ago

Replica Sets

Name	Images	Labels	Pods	Created
<div></div> news-tracker-1-5d5c744948	Show all	Show all	1 / 1	3 hours ago

Application running on IBM Kubernetes Cluster

