

Deploy In Kubernetes Cluster

Team ID	PNT2022TMID32918
Project Name	Project – Skill/Job Recommender

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Microsoft Windows [Version 10.0.19044.1706]
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C:\Users\SUBASRI>kubectl
kubectl controls the Kubernetes cluster manager.

Find more information at: https://kubernetes.io/docs/reference/kubectl/

Basic Commands (Beginner):
  create      Create a resource from a file or from stdin
  expose      Take a replication controller, service, deployment or pod and expose it as a new Kubernetes service
  run         Run a particular image on the cluster
  set         Set specific features on objects

Basic Commands (Intermediate):
  explain     Get documentation for a resource
  get         Display one or many resources
  edit        Edit a resource on the server
  delete      Delete resources by file names, stdin, resources and names, or by resources and label selector

Deploy Commands:
  rollout     Manage the rollout of a resource
  scale       Set a new size for a deployment, replica set, or replication controller
  autoscale   Auto-scale a deployment, replica set, stateful set, or replication controller

Cluster Management Commands:
  certificate Modify certificate resources.
  cluster-info Display cluster information
  top         Display resource (CPU/memory) usage
  cordon      Mark node as unschedulable
  uncordon    Mark node as schedulable
  drain       Drain node in preparation for maintenance
  taint       Update the taints on one or more nodes

Troubleshooting and Debugging Commands:
  describe   Show details of a specific resource or group of resources
  logs       Print the logs for a container in a pod
  attach     Attach to a running container
  exec       Execute a command in a container
  port-forward Forward one or more local ports to a pod
  proxy      Run a proxy to the Kubernetes API server
  cp         Copy files and directories to and from containers
  auth       Inspect authorization
  debug      Create debugging sessions for troubleshooting workloads and nodes

Advanced Commands:
  diff       Diff the live version against a would-be applied version
  apply       Apply a configuration to a resource by file name or stdin
  patch       Update fields of a resource
  replace     Replace a resource by file name or stdin
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api-resources Print the supported API resources on the server
api-versions  Print the supported API versions on the server, in the form of "group/version"
config        Modify kubeconfig files
plugin        Provides utilities for interacting with plugins
version       Print the client and server version information

Usage:
  kubectl [flags] [options]

Use "kubectl command --help" for more information about a given command.
Use "kubectl options" for a list of global command-line options (applies to all commands).

C:\Users\SUBASRI>ibmcloud plugin install kubernetes-service
Looking up 'kubernetes-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 MB / 26.86 MB [=====] 100.00% 21s
28168192 bytes downloaded
Installing binary...
OK
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\SUBASRI\bluemix\plugins\container-service. Use 'ibmcloud plugin show container-service' to show its details.

C:\Users\SUBASRI>cd C:\job-portal-main
C:\job-portal-main>kubectl apply -f deployment.yaml
deployment.apps/job-portal-main configured
C:\job-portal-main>kubectl apply -f service.yaml
service/job-portal-main configured
C:\job-portal-main>kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
flask-node-deployment-7f5dc9d8cd-57vld 0/1     ErrImagePull 0           5h57m
job-portal-main-668fccc7c86-kj5vn      1/1     Terminating 0           167m
job-portal-main-677b754f79-jc8g2      1/1     Running      0           26s
C:\job-portal-main>kubectl get service
NAME                                TYPE        CLUSTER-IP      EXTERNAL-IP    PORT(S)    AGE
flask-node-deployment               ClusterIP   10.103.200.80   <none>         5000/TCP   5h57m
job-portal-main                     ClusterIP   10.107.155.3    <localhost>    5000/TCP   5h15m
kubernetes                          ClusterIP   10.96.0.1       <none>         443/TCP    10h
C:\job-portal-main>
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SKILL/JOB RECOMMENDER

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Aboutus

Mission

This is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world.

Vision

Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. This offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.

Objective

Well directed career guidance programs for educational institutions
Appropriate certification courses that suit the industry need
Train the trainers; expanded awareness about the current industry standards
Liaise with corporates to offer niche internships
Establish technology development centers in colleges
Specialised incubation centers in collaboration with corporates.

