

SPRINT 4

TEAM ID: PNT2022TMID29835

SKILL OR JOB RECOMMENDER SYSTEM

OUTPUT

Kubernetes implemtation

The image displays a Windows PowerShell terminal window and an IBM Cloud web interface. The terminal shows the execution of various Kubernetes commands to set up a cluster, including adding context, applying deployment manifests, and checking the status of the cluster. The web interface shows the IBM Cloud console with a cluster named 'mycluster-free' in a 'Normal' state, expiring in 23 days. It provides an overview of the cluster's status, including worker nodes, pools, and DevOps. The 'Details' section shows the cluster ID, version (1.24.8_1544), infrastructure (Classic), and zones (Milan 01). The 'Node health' section shows 1 total nodes.

Windows PowerShell Terminal Output:

```
Added context for cdtltpof0uv2a9hfiubg 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.
PS C:\Users\RISHI\Desktop\ibm main\Inventory Management System\Inventory management system> kubectl get nodes
NAME                                STATUS    ROLES    AGE   VERSION
10.144.214.101                      Ready    <none>    9d    v1.24.7+IKS
PS C:\Users\RISHI\Desktop\ibm main\Inventory management system> kubectl apply -f kubernetes/deployment.yaml
error: the path "kubernetes/deployment.yaml" does not exist
PS C:\Users\RISHI\Desktop\ibm main\Inventory management system> kubectl apply -f kubernetes/flask_deployment.yaml
deployment.apps/flask-app unchanged
PS C:\Users\RISHI\Desktop\ibm main\Inventory management system> kubectl apply -f kubernetes/flask_deployment.yaml
deployment.apps/flask-app created
PS C:\Users\RISHI\Desktop\ibm main\Inventory management system> kubectl apply -f kubernetes/flask_deployment.yaml
The Deployment "flask-app" is invalid: spec.template.spec.containers[0].name: Invalid value: "thirsty_darwin": a lowercase RFC 1123 label must consist of lower case alphanumeric characters or '-', and must start and end with an alphanumeric character (e.g. 'my-name', or '123-abc', regex used for validation is '[a-z0-9]([-a-z0-9]*[a-z0-9])?')
PS C:\Users\RISHI\Desktop\ibm main\Inventory management system> docker rename thirsty_darwin thristy-darwin
PS C:\Users\RISHI\Desktop\ibm main\Inventory management system> kubectl apply -f kubernetes/flask_deployment.yaml
deployment.apps/flask-app created
PS C:\Users\RISHI\Desktop\ibm main\Inventory management system> kubectl -n kubernetes-dashboard apply -f kubernetes/flask_deploy
ment.yaml
Error from server (NotFound): error when creating "kubernetes/flask_deployment.yaml": namespaces "kubernetes-dashboard" not found
PS C:\Users\RISHI\Desktop\ibm main\Inventory Management System\Inventory management system> kubectl -n kubernetes-dashboard create token admin-user
error: failed to create token: namespaces "kubernetes-dashboard" not found
PS C:\Users\RISHI\Desktop\ibm main\Inventory Management System\Inventory management system> kubectl -n kubernetes-dashboard create token admin-user
error: failed to create token: namespaces "kubernetes-dashboard" not found
PS C:\Users\RISHI\Desktop\ibm main\Inventory Management System\Inventory management system> kubectl -n default apply -f kubernetes/flask_deployment.yaml
deployment.apps/flask-app unchanged
PS C:\Users\RISHI\Desktop\ibm main\Inventory Management System\Inventory management system> kubectl -n default get deploy
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
flask-app 0/5      5             0           16m
PS C:\Users\RISHI\Desktop\ibm main\Inventory Management System\Inventory management system> kubectl -n default get pods
NAME                                READY    STATUS      RESTARTS   AGE
flask-app-778b574d99-d4r5q          0/1      ErrImageNeverPull    0           16m
flask-app-778b574d99-dws1q          0/1      ErrImageNeverPull    0           16m
flask-app-778b574d99-f88p5          0/1      ErrImageNeverPull    0           16m
flask-app-778b574d99-gw2kr          0/1      ErrImageNeverPull    0           16m
flask-app-778b574d99-whmsv          0/1      ErrImageNeverPull    0           16m
PS C:\Users\RISHI\Desktop\ibm main\Inventory Management System\Inventory management system> kubectl -n default apply -f kubernetes/flask_deployment.yaml
deployment.apps/flask-app created
PS C:\Users\RISHI\Desktop\ibm main\Inventory Management System\Inventory management system>
```

IBM Cloud Web Interface:

Overview

Worker nodes

Worker pools

DevOps **New**

Expires in 23 days: Be sure to back up your data, your cluster will be deleted in 23 days. To access the full capabilities of the service, try out a standard cluster.

Node status: 1 of 1
Normal
[Details ↓](#)

Add-on status: 0 of 0
Normal
[Details ↓](#)

Master status: Normal
[Docs ↗](#)

Ingress status: Healthy [ⓘ](#)
[Docs ↗](#)

Details

Cluster ID	Version	Infrastructure	Zones
cdo8749f9tan115fjq08	1.24.8_1544	Classic	Milan 01

Created: 11/13/2022, 11:11 AM

Resource group: Default

Image security enforcement: [Enable](#)

Node health: 1 total nodes
[Worker node details](#)

IBM | mycluster-free - IBM Cloud | mycluster-free - Kubernetes Dashboard | +

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdo8749f0tamil5fjq0/service/#/workloads?namespace=default

kubernetes | default | Search

Workloads

Workloads

- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- Stateful Sets

Workload Status

Running: 1

Deployments

Running: 5

Pods

Running: 1

Replica Sets

Deployments

Name	Images	Labels	Pods	Created
flask-app	Show all	-	5 / 5	a minute ago

Pods

27°C
Haze

IBM | mycluster-free - IBM Cloud | mycluster-free - Kubernetes Dashboard | +

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdo8749f0tamil5fjq0/service/#/deployment?namespace=default

kubernetes | default | Search

Workloads > Deployments

Workloads

- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- Stateful Sets

Deployments

Name	Images	Labels	Pods	Created
flask-app	jp.icr.io/ss-vp/jobs_skills Show less	-	5 / 5	2 minutes ago

IBM

mycluster-free - IBM Cloud

mycluster-free - Kubernetes Dashboard

+

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdo8749f0tamil5fjqj0/service/#/pod?namespace=default

kubernetes

default

Search

+ 🔔 👤

Workloads > Pods

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

Secrets

Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created ↑
flask-app-5cd9df6494-kc8fk	Show all	Show all	10.144.187.27	Running	0	<div><div>100.00m</div></div>	<div><div>60.60Mi</div></div>	2 minutes ago
flask-app-5cd9df6494-pbwcm	Show all	Show all	10.144.187.27	Running	0	<div><div>100.00m</div></div>	<div><div>60.73Mi</div></div>	2 minutes ago
flask-app-5cd9df6494-ssv88	Show all	Show all	10.144.187.27	Running	0	<div><div>100.00m</div></div>	<div><div>60.64Mi</div></div>	2 minutes ago
flask-app-5cd9df6494-xcxms	Show all	Show all	10.144.187.27	Running	0	<div><div>100.00m</div></div>	<div><div>60.89Mi</div></div>	2 minutes ago
flask-app-5cd9df6494-xnwwd	Show all	Show all	10.144.187.27	Running	0	<div><div>100.00m</div></div>	<div><div>60.69Mi</div></div>	2 minutes ago

27°C

Haze

Search

ENG IN

11:54

20-11-2022

IBM

mycluster-free - IBM Cloud

mycluster-free - Kubernetes Dashboard

+

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdo8749f0tamil5fjqj0/service/#/discovery?namespace=default

kubernetes

default

Search

+ 🔔 👤

Service

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

Secrets

Services

Name	Labels	Type	Cluster IP	Internal Endpoints	External Endpoints	Created ↑
kubernetes	Show all	ClusterIP	172.21.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	7 days ago

27°C

Haze

Search

ENG IN

11:54

20-11-2022

Instead of sendgrid we use fast 2 sms

The screenshot displays the Fast2SMS dashboard in a web browser. The browser's address bar shows the URL `fast2sms.com/dashboard/sms/bulk`. The dashboard has a dark sidebar on the left with a balance of ₹154.00 and a list of navigation items: Bulk SMS, DLT SMS, Quick SMS, Address Book, Delivery Reports, Transactions, Dev API, Settings, and Help. The main content area is divided into two sections. The left section, titled 'PROMOTIONAL', contains a form for sending SMS. The form fields include 'Sender ID' (FastSM), 'Mobile Number' (+91), and 'Message' (Dearuseryourotp:). There are buttons for 'CONTACT', 'LIST', 'EXCEL', and 'ENGLISH'. At the bottom of the form are 'SEND' and 'SCHEDULE' buttons. The right section, titled 'FEATURES', lists several benefits: 'For Marketing & Promotional SMS', 'No DLT Registration Required', 'Only for Non DND numbers', 'SMS Delivery After Approval', 'Send SMS from 10 AM - 9 PM', and 'Personal SMS not allowed'.

Account Info 12:26:48 AM Rishiragul...

FAST2SMS

₹154.00
ADD CREDIT

Bulk SMS

DLT SMS

Quick SMS

Address Book

Delivery Reports

Transactions

Dev API

Settings

Help

PROMOTIONAL SERVICE

Sender ID

FastSM

Mobile Number

+91

Message (maximum 60 characters)

Dearuseryourotp:

- Sent via ftwsms

35 / 1 SMS

SEND OR SCHEDULE

FEATURES

For Marketing & Promotional SMS

- No DLT Registration Required
- Only for Non DND numbers
- SMS Delivery After Approval
- Send SMS from 10 AM - 9 PM
- Personal SMS not allowed

< VK-FTWSMS



Yesterday 4:55 PM

yourotp:

Hii, Your ID
successfully
[created.Explore](#)
your skills and Grab
your job.

- Sent via FTWSMS

Cannot reply to special number

