

SPRINT 4

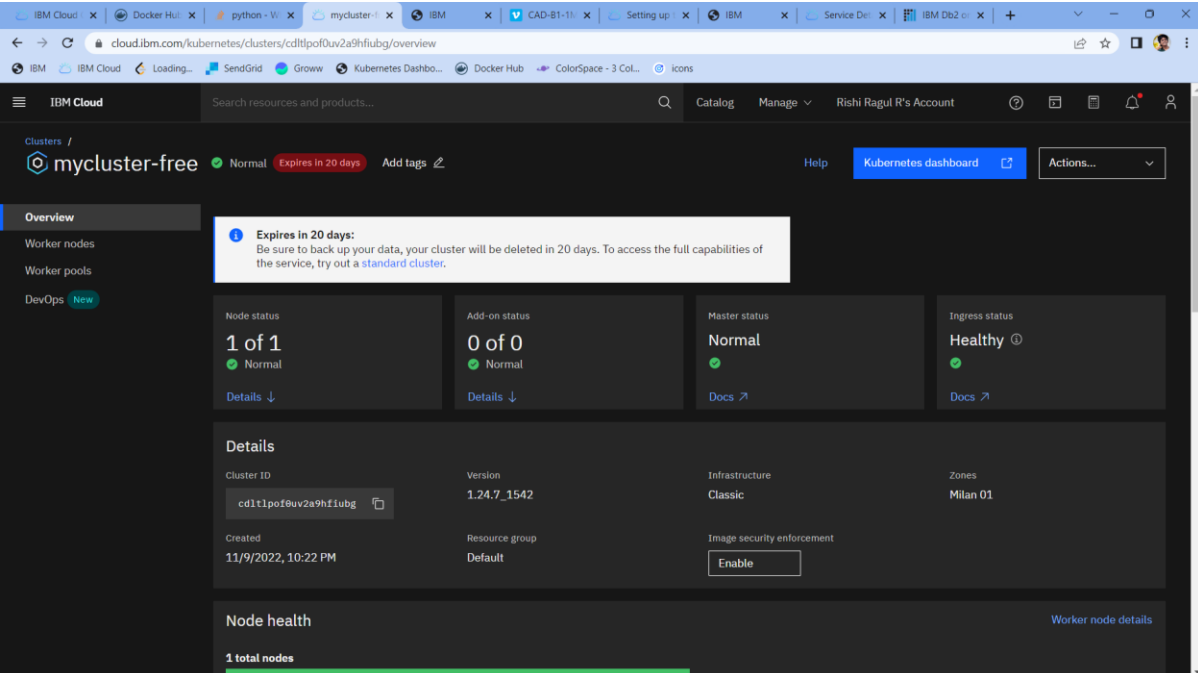
TEAM ID: PNT2022TMID29830

INVENTORY MANAGEMENT SYSTEM FOR RETAILERS

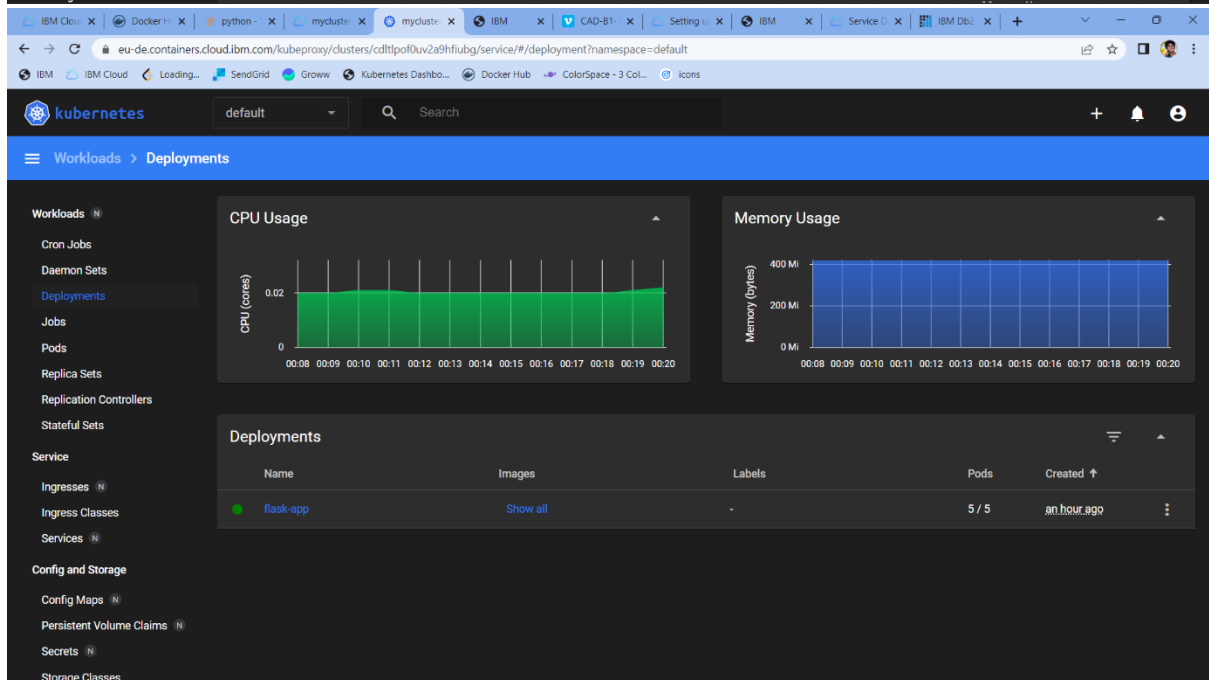
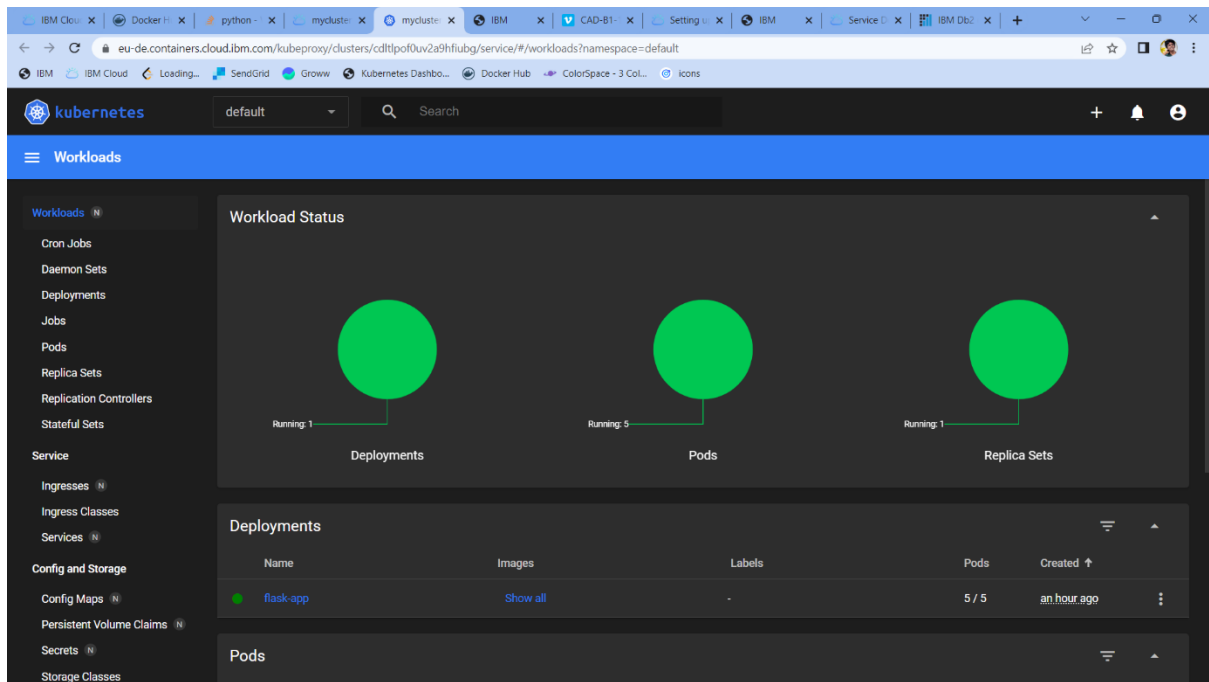
OUTPUT

Kubernetes implemtation

```
Windows PowerShell
Added context for cdl1tpof0uv2a9hfiubg 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\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\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\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\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\Inventory management system> docker rename thirsty_darwin thristy-darwin
PS C:\Users\RISHI\Desktop\ibm main\Inventory Management System\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\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>
```



The screenshot shows the IBM Cloud console interface for a Kubernetes cluster named 'mycluster-free'. The cluster is in a 'Normal' state and expires in 20 days. The overview section displays four status cards: Node status (1 of 1, Normal), Add-on status (0 of 0, Normal), Master status (Normal), and Ingress status (Healthy). Below these, a 'Details' section provides information about the cluster ID (cdl1tpof0uv2a9hfiubg), version (1.24.7_1542), infrastructure (Classic), zones (Milan 01), creation time (11/9/2022, 10:22 PM), resource group (Default), and image security enforcement (Enabled). At the bottom, the 'Node health' section shows 1 total nodes.



Workloads > Pods

Workloads

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses

Ingress Classes

Services

Config and Storage

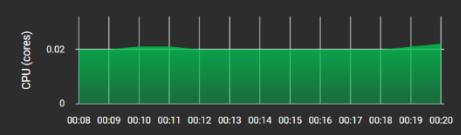
Config Maps

Persistent Volume Claims


Secrets

Storage Classes

CPU Usage



Memory Usage



Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created
flask-app-856977c65d-58hzr	Show all	Show all	10.144.214.101	Running	0	4.00m	83.08Mi	an hour ago
flask-app-856977c65d-9ftc6	Show all	Show all	10.144.214.101	Running	0	5.00m	82.93Mi	an hour ago
flask-app-856977c65d-gwkq6	Show all	Show all	10.144.214.101	Running	0	5.00m	86.67Mi	an hour ago
flask-app-856977c65d-lrzmq	Show all	Show all	10.144.214.101	Running	0	4.00m	83.84Mi	an hour ago
flask-app-856977c65d-xt769	Show all	Show all	10.144.214.101	Running	0	4.00m	83.85Mi	an hour ago

Service > Services

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

Storage Classes

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	-	10 days ago

Instead of sendgrid we use fast 2 sms

The screenshot displays the Fast2SMS dashboard interface. At the top, the browser address bar shows the URL `fast2sms.com/dashboard/sms/bulk`. The dashboard header includes the Fast2SMS logo, account information, the current time (12:26:48 AM), and a user profile dropdown for 'Rishiragul...'. On the left sidebar, there is a balance of ₹154.00 and an 'ADD CREDIT' button, followed by a menu with options like Bulk SMS, DLT SMS, Quick SMS, Address Book, Delivery Reports, Transactions, Dev API, Settings, and Help. The main content area features two tabs: 'PROMOTIONAL' (selected) and 'SERVICE'. The 'PROMOTIONAL' tab contains a form with the following fields: 'Sender ID' (pre-filled with 'FastSM'), 'Mobile Number' (with a '+91' prefix and buttons for 'CONTACT', 'LIST', and 'EXCEL'), 'Message' (with a character limit of 60 and a language selector set to 'ENGLISH'), and a 'Message' text area containing 'Dearuseryourotp:'. Below the message area, it indicates '- Sent via ftwsms' and a character count of '35 / 1 SMS'. At the bottom of the form are 'SEND' and 'SCHEDULE' buttons. To the right of the form is a 'FEATURES' section titled 'For Marketing & Promotional SMS' with a list of benefits: '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 CONTACT LIST EXCEL

+91

Message (maximum 60 characters) ENGLISH

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



VM-FTWSMS

zeb-dazzle wireless
mouse

- Sent via FTWSMS

yourotp:

low stocks on following
itemszebrionics
zeb-dazzle wireless
mouse

- Sent via FTWSMS

11-19 10:05 PM

yourotp:

low stocks on following
itemszebrionics
zeb-dazzle wireless
mouse

- Sent via FTWSMS



Text message

