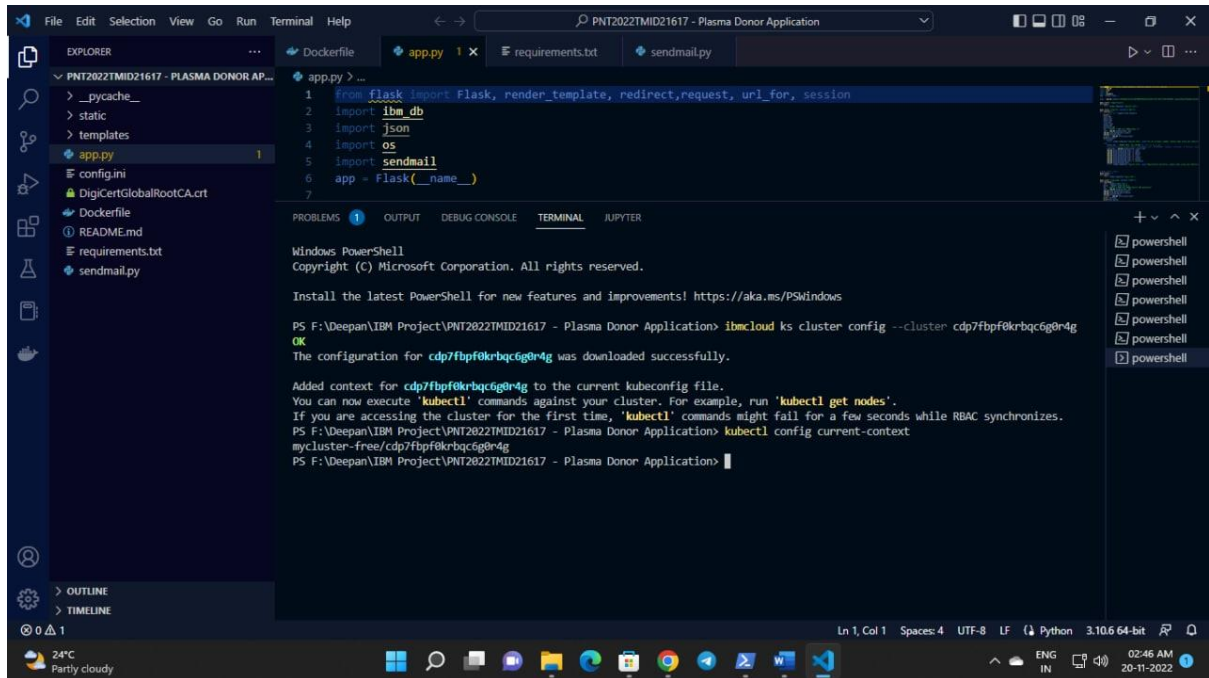


# DEPLOY IN KUBERNETES CLUSTER

Project	Plasma Donor Application
Team ID	PNT2022TMID21617

## 1, Config the terminal for the deployment



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left displays the file structure of the 'PNT2022TMID21617 - PLASMA DONOR AP...' project, including files like `_pycache_`, `static`, `templates`, `app.py`, `config.ini`, `Dockerfile`, `README.md`, `requirements.txt`, and `sendmail.py`. The main editor area shows the `app.py` file with the following Python code:

```
1 from flask import Flask, render_template, redirect, request, url_for, session
2 import ibm_db
3 import json
4 import os
5 import sendmail
6 app = Flask(__name__)
7
```

The TERMINAL pane at the bottom shows the execution of the following commands in a Windows PowerShell environment:

```
PS F:\Deeapan\IBM Project\PNT2022TMID21617 - Plasma Donor Application> ibmcloud ks cluster config --cluster cdp7fbpf0krbqc6g0r4g
OK
The configuration for cdp7fbpf0krbqc6g0r4g was downloaded successfully.

Added context for cdp7fbpf0krbqc6g0r4g 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 F:\Deeapan\IBM Project\PNT2022TMID21617 - Plasma Donor Application> kubectl config current-context
mycluster-free/cdp7fbpf0krbqc6g0r4g
PS F:\Deeapan\IBM Project\PNT2022TMID21617 - Plasma Donor Application>
```

The status bar at the bottom indicates the current file is `Ln 1, Col 1`, using `Spaces: 4`, `UTF-8` encoding, `LF` line endings, `Python` language, and `3.10.6 64-bit` interpreter.

## 2, Run the command to deploy the image from the container registry



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eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdp7fbpf0krbqc6g0r4g/service/#/service?namespace=default

kubernetes default Search

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

Cluster

Services

Name	Labels	Type	Cluster IP	Internal Endpoints	External Endpoints	Created
plasmadonorapplication	Show all	NodePort	172.21.218.215	plasmadonorapplication:5000 TCP plasmadonorapplication:32559 TCP	-	2 hours ago
kubernetes	Show all	ClusterIP	172.21.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	5 days ago

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eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdp7fbpf0krbqc6g0r4g/service/#/deployment?namespace=default

kubernetes default Search

Workloads > Deployments

Workloads

- Cron Jobs
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Service

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- Ingress Classes
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Config and Storage

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Cluster

CPU Usage

Memory Usage

Deployments

Name	Images	Labels	Pods	Created
plasmadonorapp	Show all	Show all	1 / 1	an hour ago

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