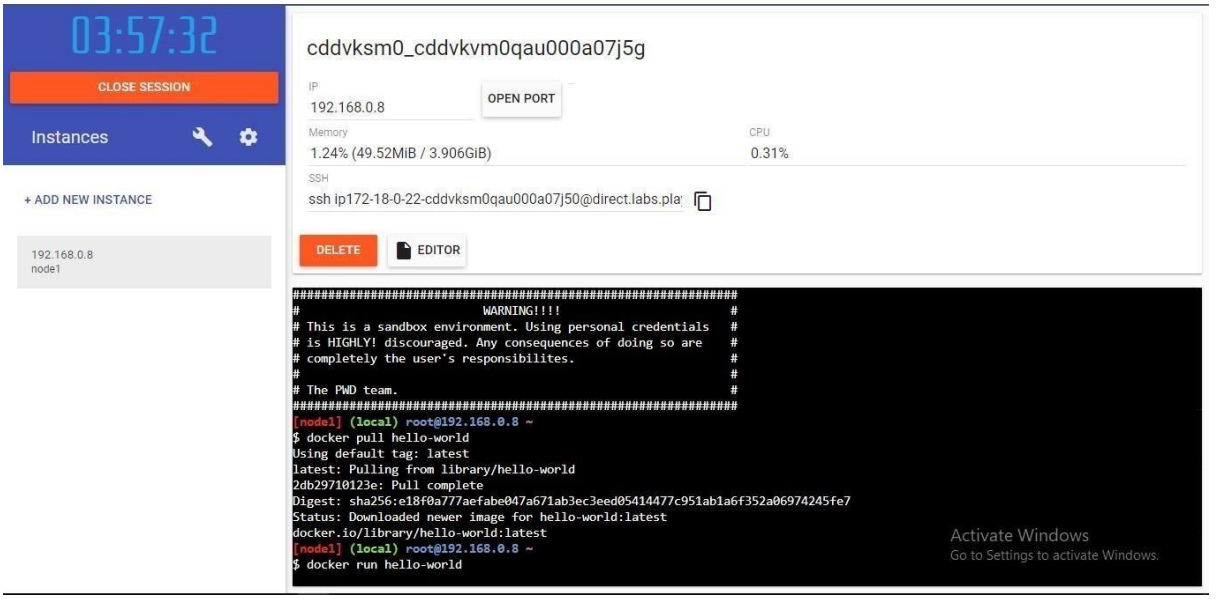
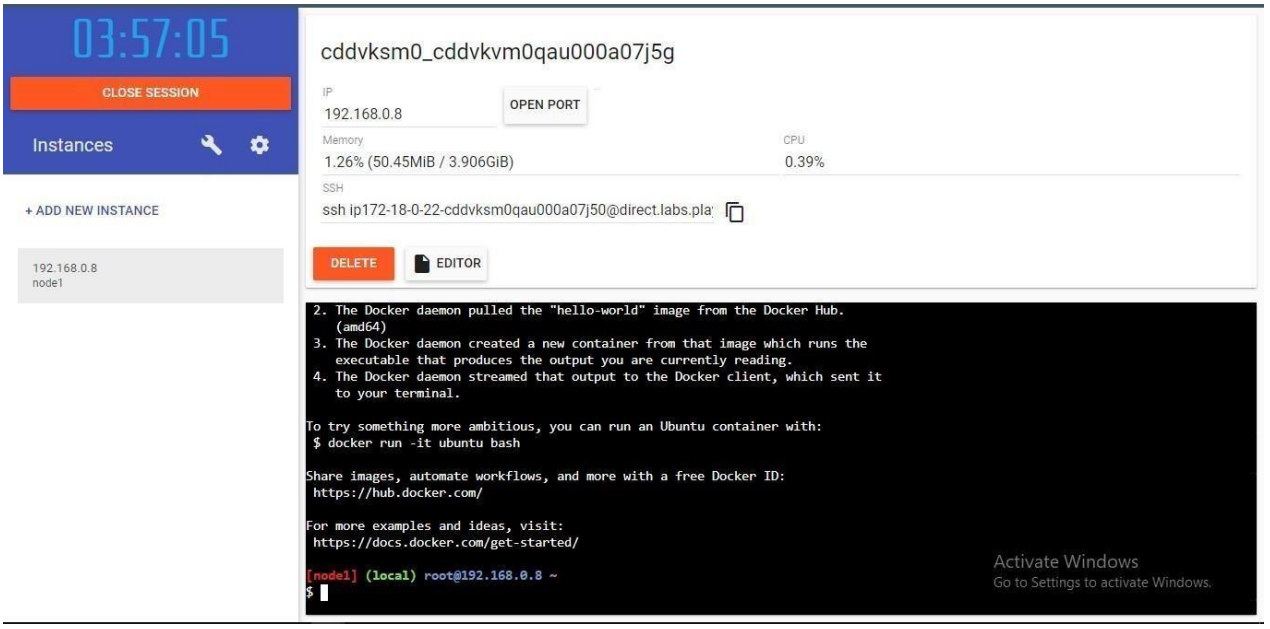
Assignment - 4

1) Pull an image from docker hub and run it in docker playground.

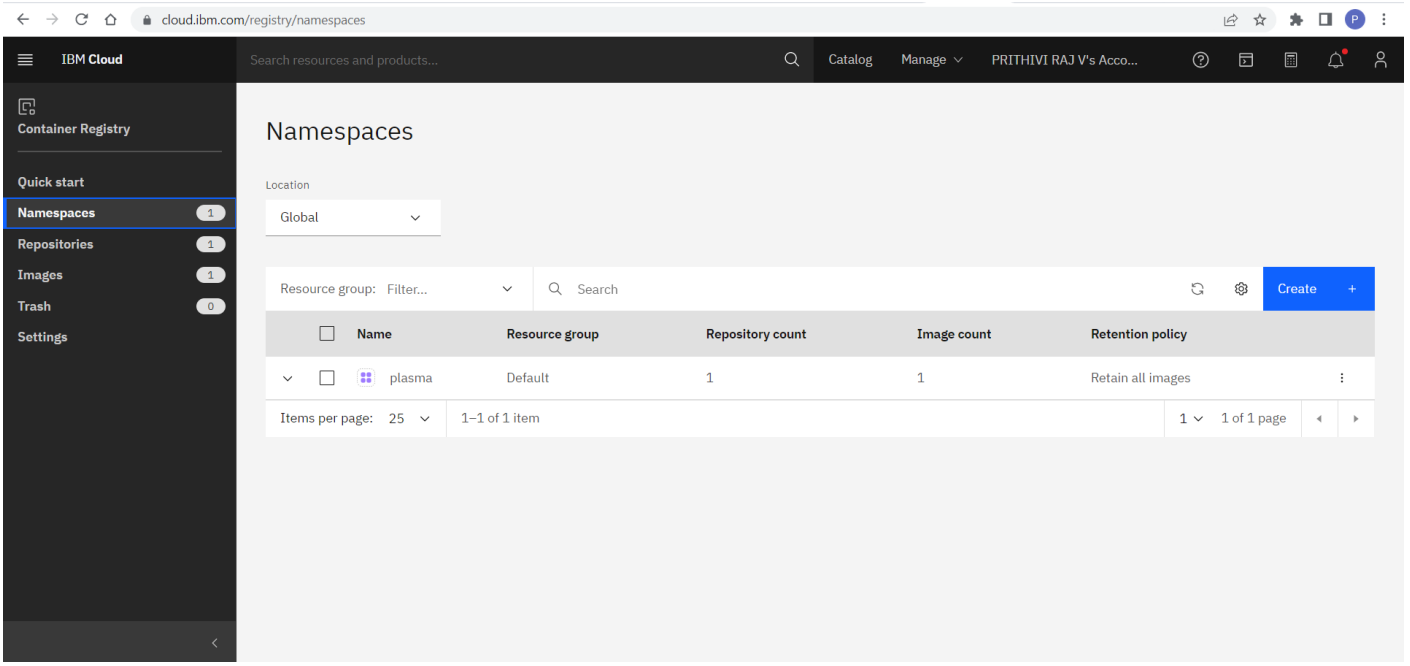


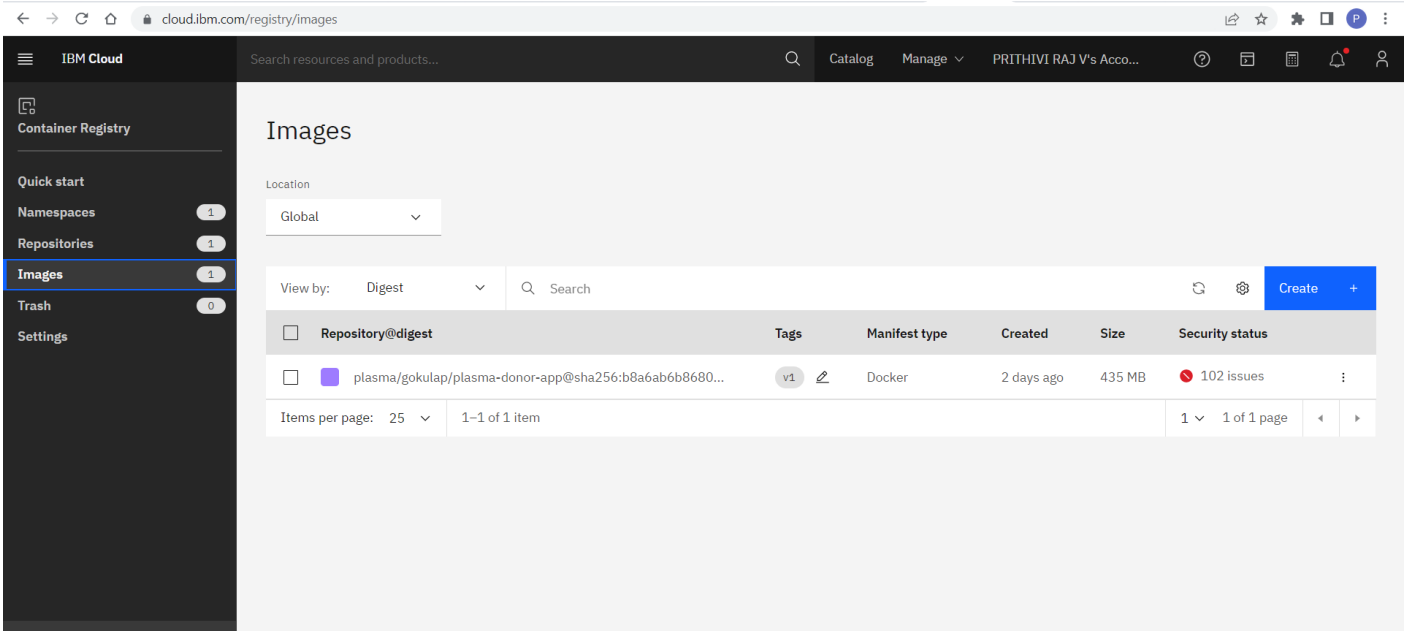


2) Create a docker file for the job portal application and deploy it in Docker desktopapplication.

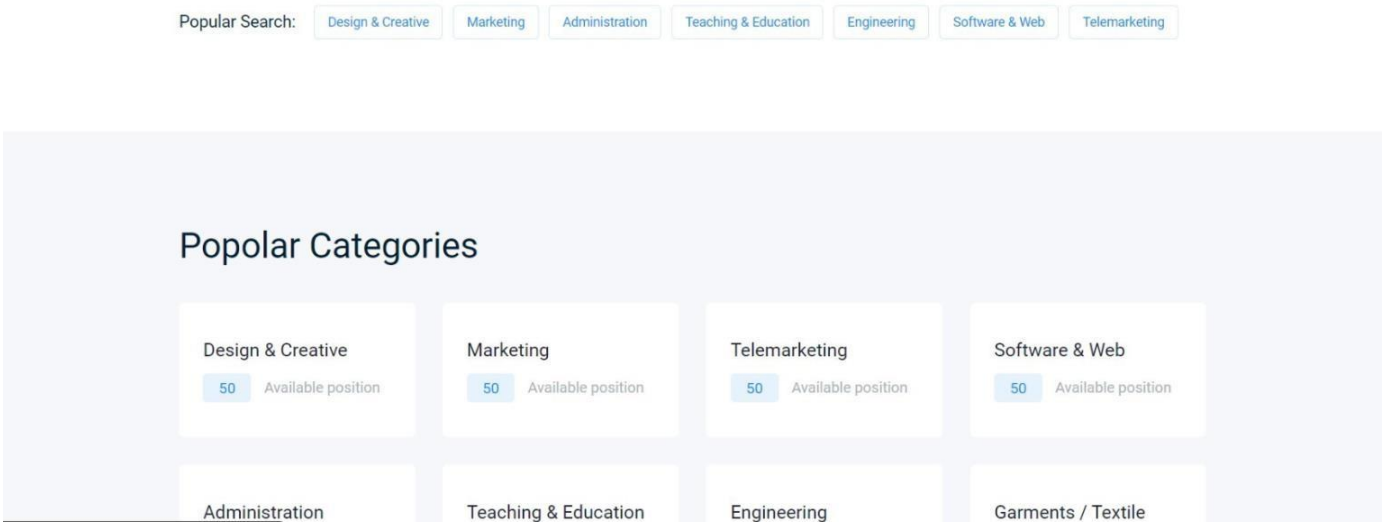
DOCKER FILE:

```
FROM python:3.8-buster

WORKDIR /app

COPY requirements.txt /app/

RUN pip install -r requirements.txt

COPY . /app/

RUN cp .env.dev.sample .env

EXPOSE 8000

RUN chmod +x entrypoint.sh

CMD ["sh", "entrypoint.sh"]
```



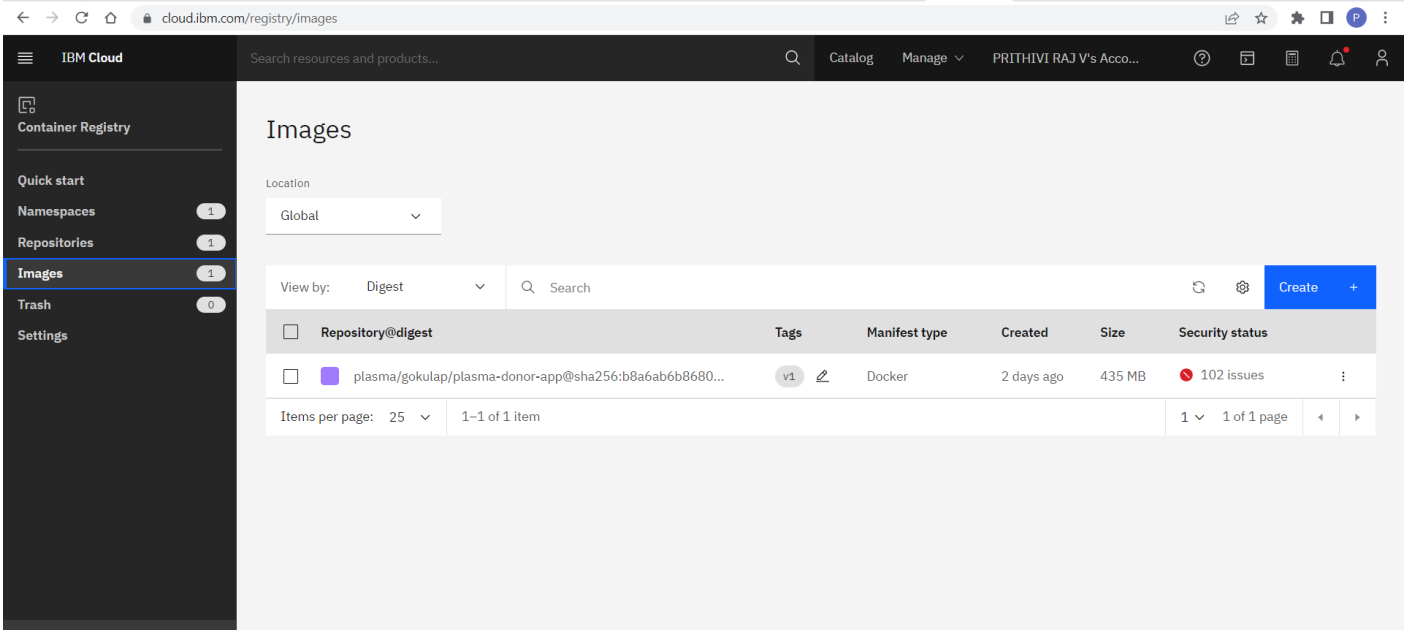

cloud.ibm.com/registry/images
IBM Cloud
Search resources and products...
Catalog
Manage
PRITHIVI RAJ V's Acco...
Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Images
Location
Global
View by: Digest
Search
Create
Repository@digest
Tags
Manifest type
Created
Size
Security status
plasma/gokulap/plasma-donor-app@sha256:b8a6ab6b8680...
v1
Docker
2 days ago
435 MB
102 issues
Items per page: 25
1–1 of 1 item
1
1 of 1 page

OUTPUT:

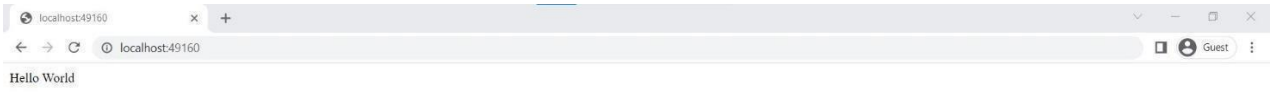


3) Create a IBM container registry and deploy hello-world app or job portal app.IBM

CONTAINER REGISTRY DEPLOYMENT:

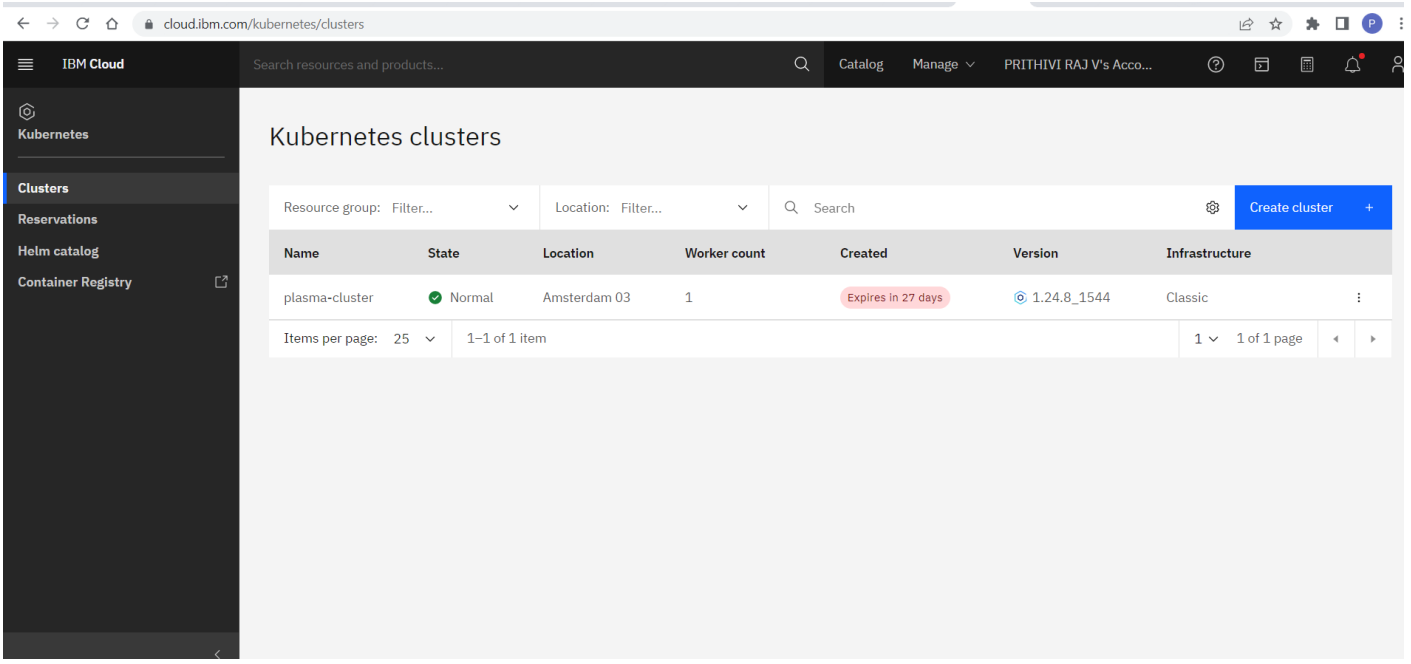


OUTPUT:

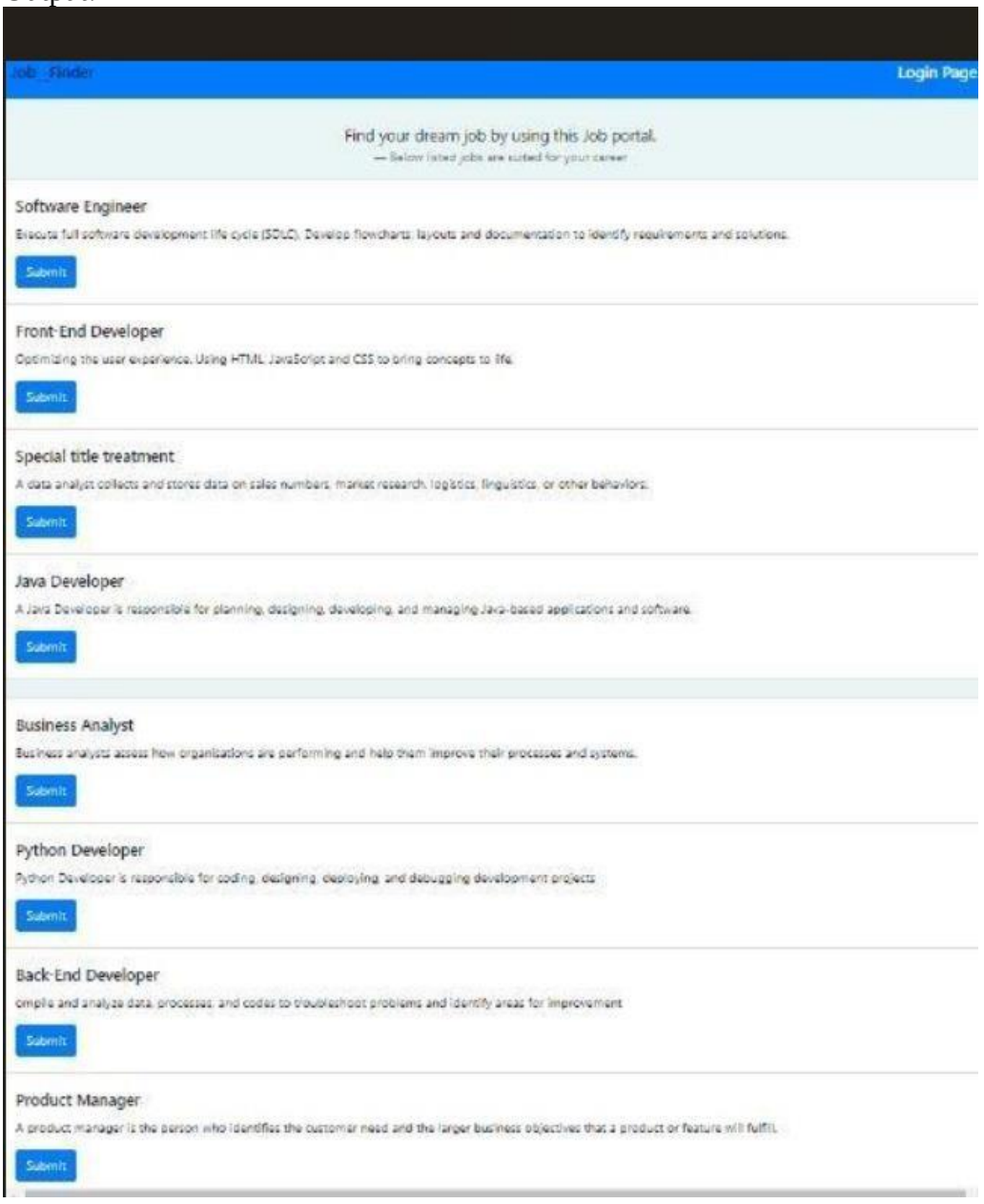


4) Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Creating Kubernetes cluster in IBM cloud and exposing node port:



Output: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Execute full software development life cycle (SDLC). Develop flowcharts, layouts and documentation to identify requirements and solutions.
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Front-End Developer
Optimizing the user experience. Using HTML, JavaScript and CSS to bring concepts to life.
Submit
Special title treatment
A data analyst collects and stores data on sales numbers, market research, logistics, linguistics, or other behaviors.
Submit
Java Developer
A Java Developer is responsible for planning, designing, developing, and managing Java-based applications and software.
Submit
Business Analyst
Business analysts assess how organizations are performing and help them improve their processes and systems.
Submit
Python Developer
Python Developer is responsible for coding, designing, deploying, and debugging development projects.
Submit
Back-End Developer
compile and analyze data, processes, and codes to troubleshoot problems and identify areas for improvement.
Submit
Product Manager
A product manager is the person who identifies the customer need and the larger business objectives that a product or feature will fulfill.
Submit