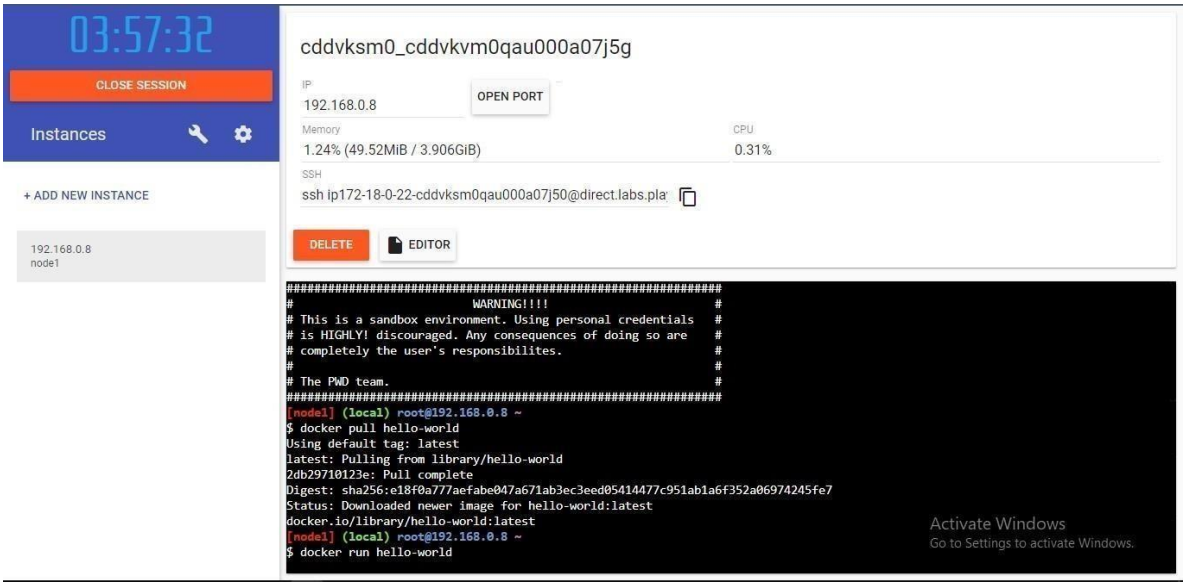
Assignment 4

Question 1:

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

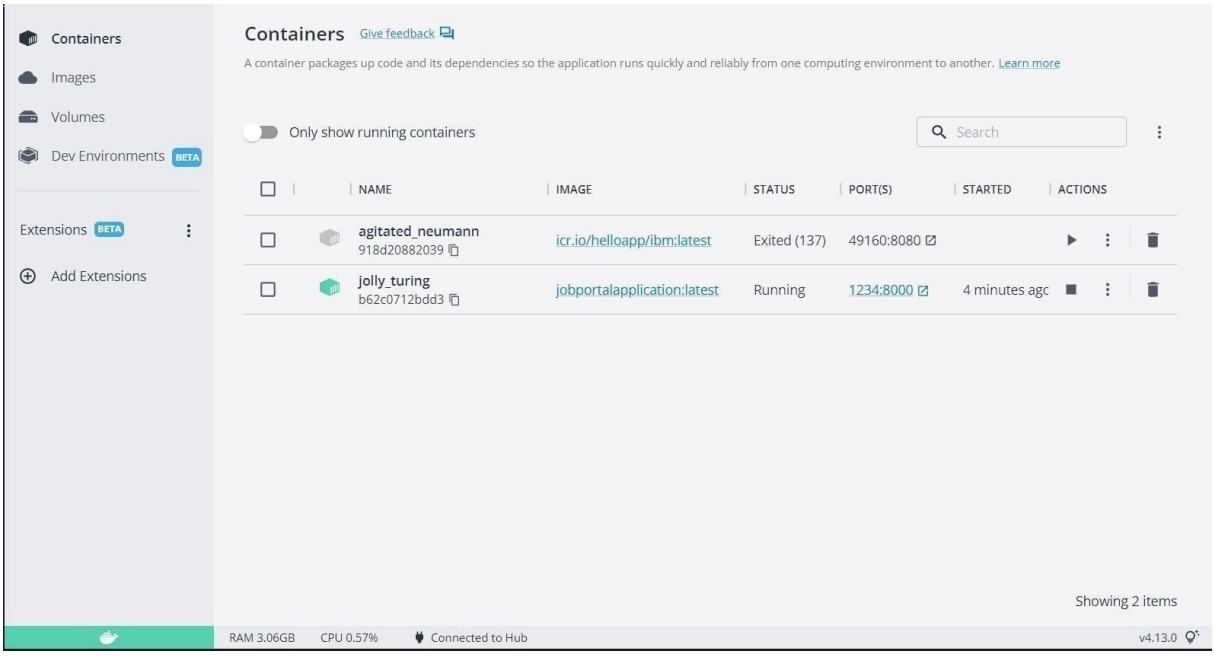


Question 2

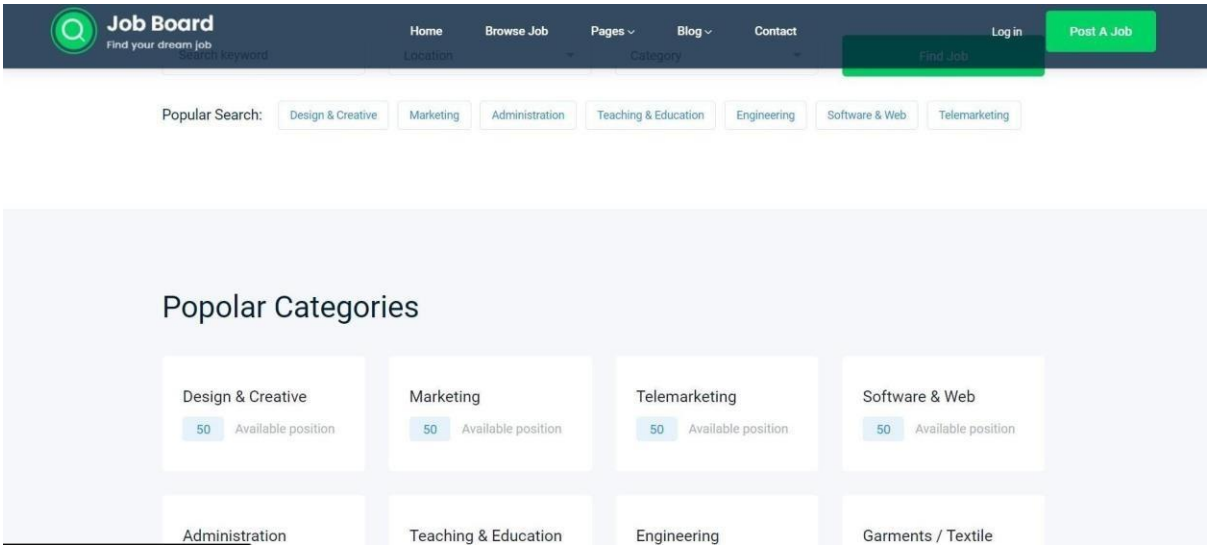
Create a docker file for the job portal application and deploy it inDocker desktop application

```
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"]
```

DEPLOYMENT OF JOBPORTAL APPLICATION:



OUTPUT:

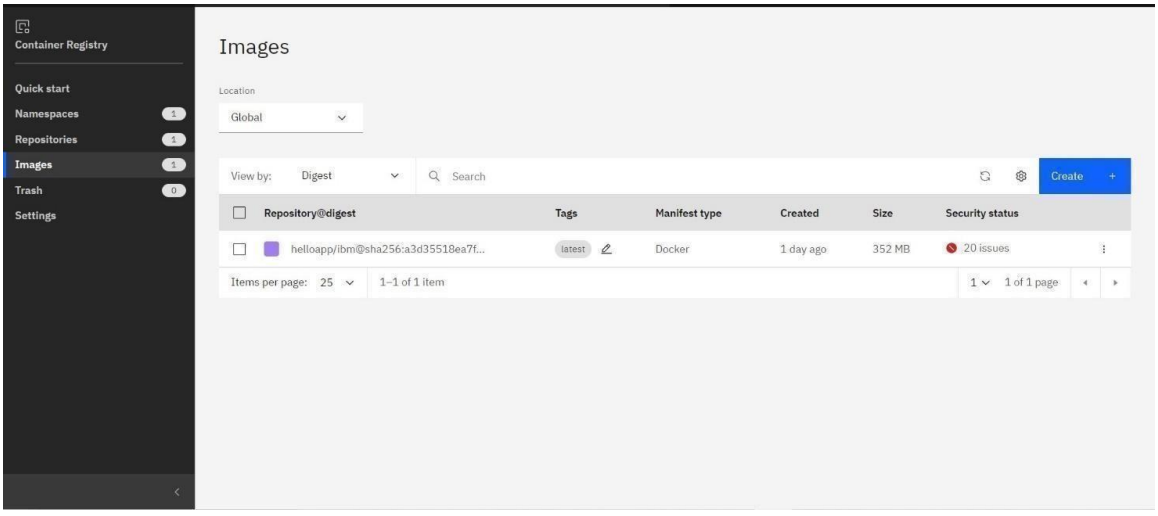


Question 3

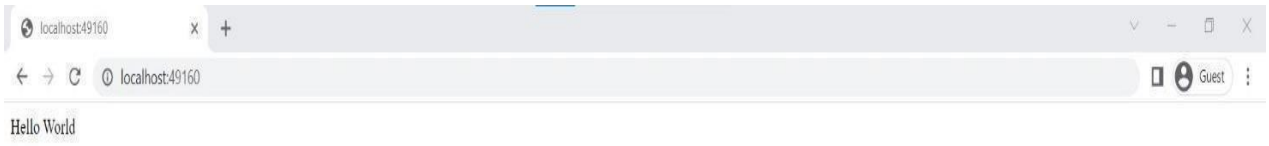
Create a IBM container registry and deploy hello-world appor job port app.

IBM CONTAINER REGISTRY

DEPLOYMENT:



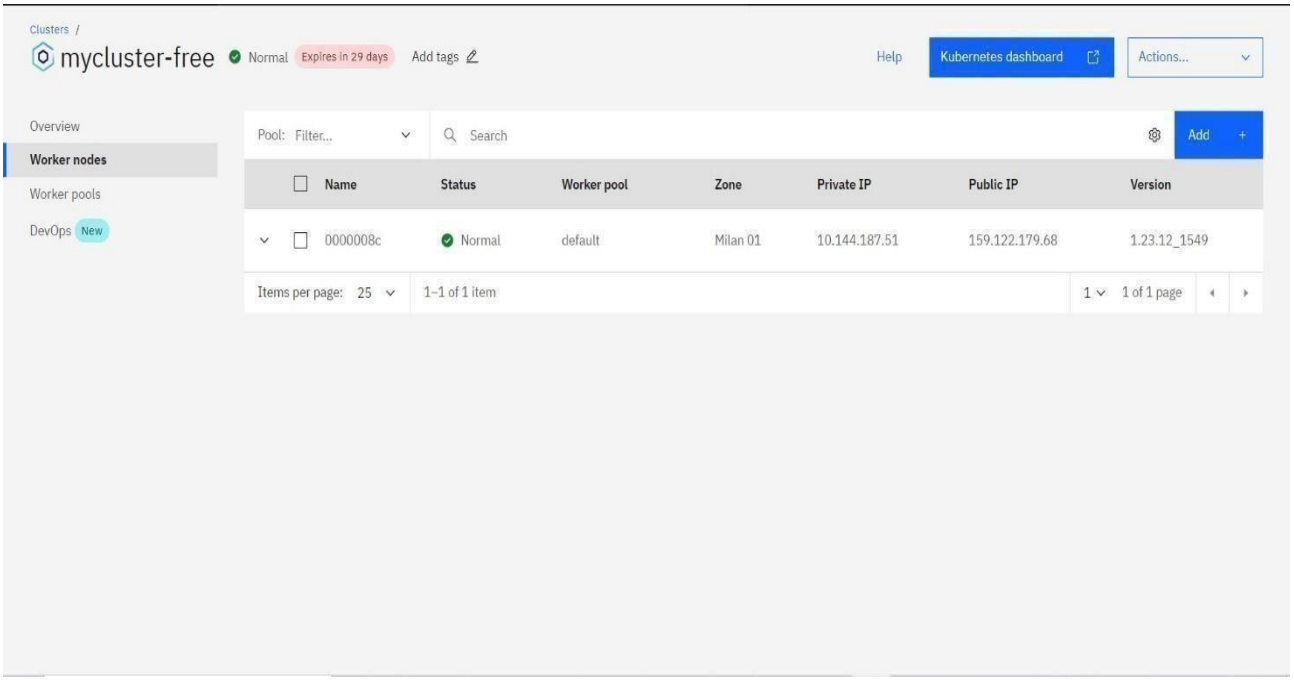
OUTPUT:



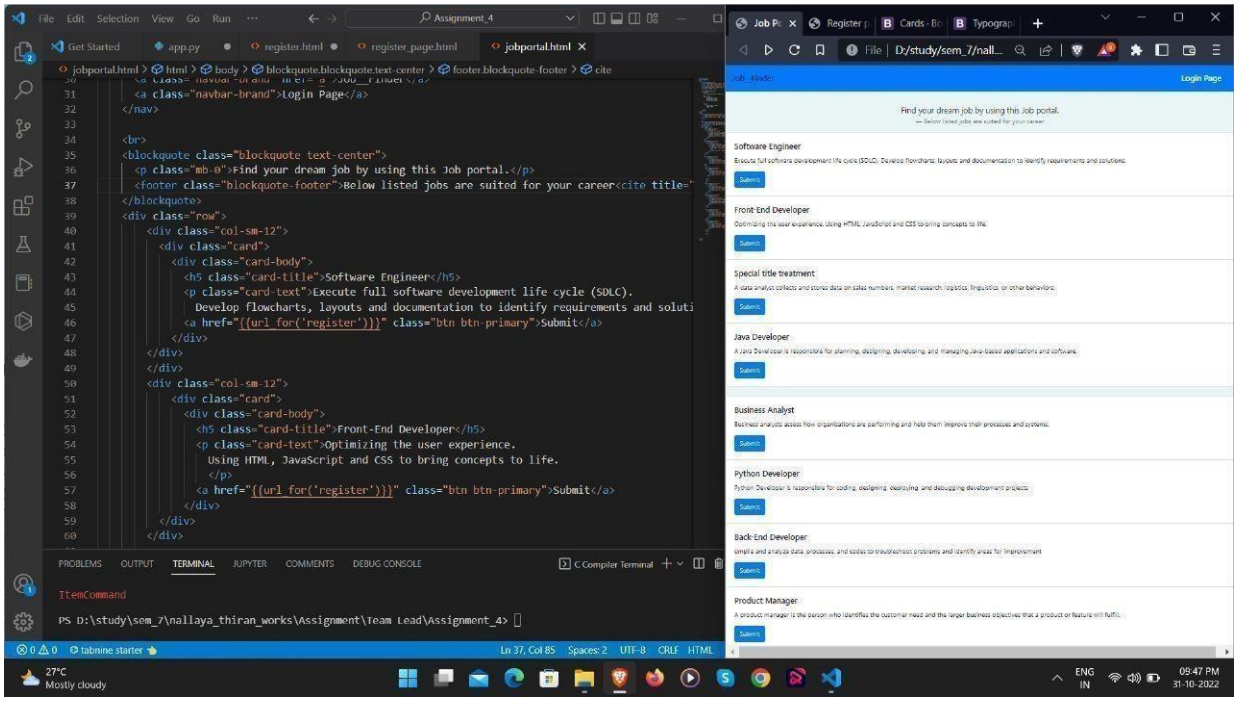
Question 4

Create a Kubernetes cluster in IBM cloud and deploy hello world imageor 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


File Edit Selection View Go Run
Assignment_4
Get Started
app.py
register.html
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jobportal.html > html > body > blockquote.blockquote.text-center > footer.blockquote-footer > cite
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<blockquote class="blockquote text-center">
Find your dream job by using this Job portal.
<footer class="blockquote-footer">Below listed jobs are suited for your career<cite title="
</blockquote>

<h5 class="card-title">Software Engineer</h5>
Execute full software development life cycle (SDLC).
Develop flowcharts, layouts and documentation to identify requirements and soluti
Submit

<h5 class="card-title">Front-End Developer</h5>
Optimizing the user experience.
Using HTML, JavaScript and CSS to bring concepts to life.

Submit

PROBLEMS OUTPUT TERMINAL JUPYTER COMMENTS DEBUG CONSOLE
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PS D:\study\sem_7\nallaya_thiran_works\Assignment\Team Lead\Assignment_4>
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Find your dream job by using this Job portal.
Below listed jobs are suited for your career
Software Engineer
Execute full software development life cycle (SDLC). Develop flowcharts, layouts and documentation to identify requirements and solutions.
Submit
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 needs and the larger business objectives that a product or feature will fulfill.
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31-10-2022