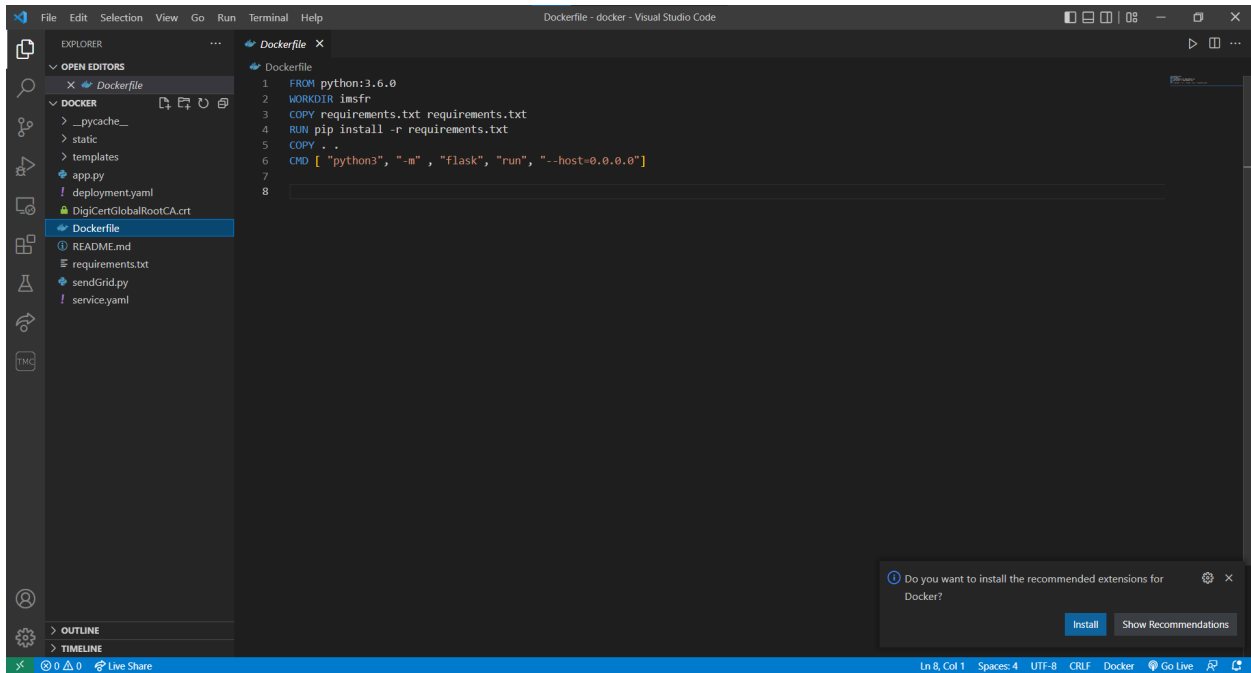


DEPLOYMENT OF APP IN IBM CLOUD

Containerize the App

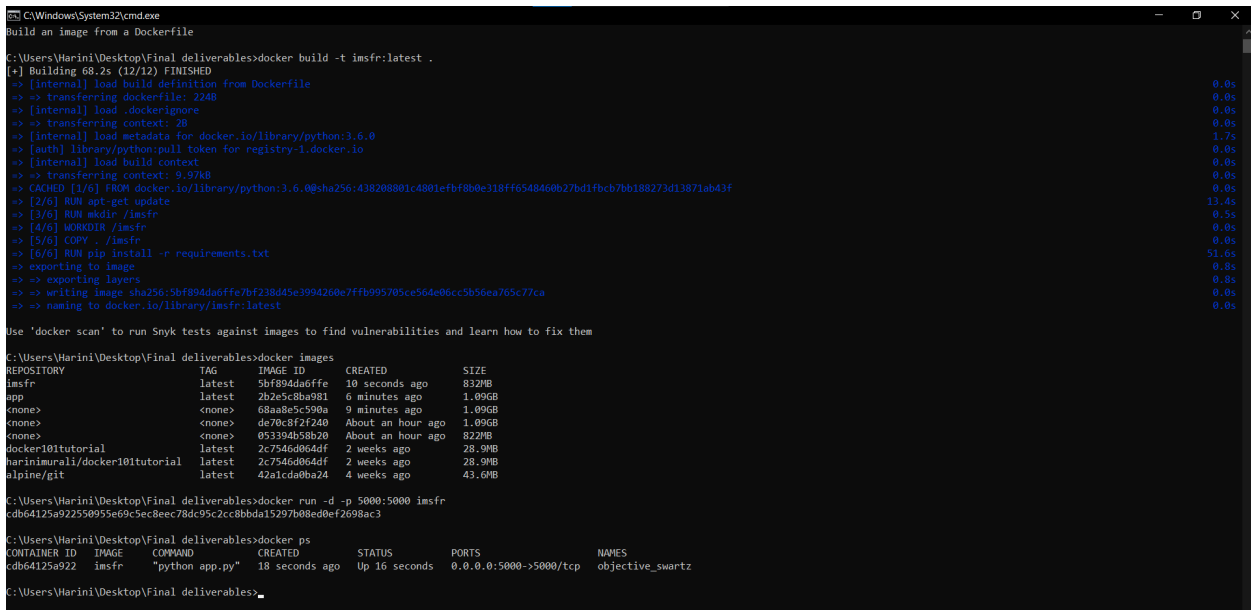
Team ID	PNT2022TMID03825
Project Name	Inventory Management For Retailers



The screenshot shows the Visual Studio Code interface with a Dockerfile open in the editor. The Dockerfile contains the following instructions:

```
1 FROM python:3.6.0
2 WORKDIR /imsfr
3 COPY requirements.txt requirements.txt
4 RUN pip install -r requirements.txt
5 COPY . .
6 CMD ["python3", "-m", "Flask", "run", "--host=0.0.0.0"]
7
8
```

The Explorer sidebar on the left shows the project structure, including files like `requirements.txt`, `app.py`, `deployment.yaml`, `sendGrid.py`, and `service.yaml`. A notification at the bottom right asks if the user wants to install recommended extensions for Docker.



The screenshot shows a terminal window with the following commands and output:

```
C:\Users\Harini\Desktop\Final deliverables>docker build -t imsfr:latest .
[+] Building 68.2s (12/12) FINISHED
-> [internal] load build definition from Dockerfile
-> => transferring dockerfile: 224B
-> [internal] load .dockerignore
-> => transferring context: 2B
-> [internal] load metadata for docker.io/library/python:3.6.0
-> [auth] library/python:pull token for registry-1.docker.io
-> [internal] load build context
-> => transferring context: 9.97kB
-> CACHED [1/6] FROM docker.io/library/python:3.6.0@sha256:438208801c4801efbf800e318ff6548460b27bd1fbc7bb188273d13871ab43f
-> [2/6] RUN apt-get update
-> [3/6] RUN mkdir /imsfr
-> [4/6] WORKDIR /imsfr
-> [5/6] COPY . /imsfr
-> [6/6] RUN pip install -r requirements.txt
-> => exporting image
-> => exporting layers
-> => writing image sha256:5bf804da6ffe7bf238d45e3994260e7ffb995705ce56de0cc5b56ea765c77ca
-> => naming to docker.io/library/imsfr:latest

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\Harini\Desktop\Final deliverables>docker images
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
imsfr                latest     5bf894da6ffe  10 seconds ago  832MB
app                  latest     2b2e5c8ba981  6 minutes ago  1.09GB
<none>              <none>     68aa8e5c590a  9 minutes ago  1.09GB
<none>              <none>     de78c8f2f2a0  About an hour ago  1.09GB
<none>              <none>     05339ab58b20  About an hour ago  822MB
docker101tutorial   latest     2c7546d064df  2 weeks ago   28.9MB
harinimurali/docker101tutorial latest     2c7546d064df  2 weeks ago   28.9MB
alpine/git           latest     42a1cd08ba24  4 weeks ago   43.6MB

C:\Users\Harini\Desktop\Final deliverables>docker run -d -p 5000:5000 imsfr
cdb64125a92259955e69c5ec8ec78dc95c2c8bbda15297b08ed0ef2698ac3

C:\Users\Harini\Desktop\Final deliverables>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                    NAMES
cdb64125a922   imsfr      "python app.py"         18 seconds ago Up 16 seconds  0.0.0.0:5000->5000/tcp   objective_swartz

C:\Users\Harini\Desktop\Final deliverables>
```