# Azure Infrastructure as Code

## Diagram

## Step by step guide:

### The docker file:

First we will create our docker file that will create a container image with our web app

based on flask.

#we use the official python image to run our app.

FROM python:3.8-slim

# Install git and any build tools if needed

RUN apt-get update && apt-get install -y git

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# Clone the repository

RUN git clone https://github.com/gurkanakdeniz/example-flask-crud.git

# Set the working directory

WORKDIR /example-flask-crud

# Upgrade pip and install required packages

RUN pip install --upgrade pip && \

pip install -r requirements.txt

# Set the Flask app env

ENV FLASK\_APP=crudapp.py

# Expose port 80

EXPOSE 80

# Initialize the database, run migrations, and start the app

RUN flask db init && \

flask db migrate -m "entries table" && \

flask db upgrade

# Start Flask

CMD ["flask", "run", "--host=0.0.0.0", “—port=80”]

after writing the docker file we then use the docker build command on the terminal:

docker build -t aziac .

A screenshot of a computer

AI-generated content may be incorrect.

### Azure CLI

Now we’ll create a repository on azure where we will push our image to