ASSIGNMENT FOR Coding INTERVIEW Cloud Engineering (Option 1)

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1   Solution Explanation

This solution is based on Container (Docker Compose) technology. It is a tool for defining and running multi-container Docker applications.

It builds the Django application on ubuntu image that have all the dependencies and the requirements. It runs 3 containers

- PostgreSQL DB container
- Django App container via HTTP (port 80)
- Django App container via HTTPS (port 443)

2   Deployment plan

Pre-requisites:

- docker-compose to be installed

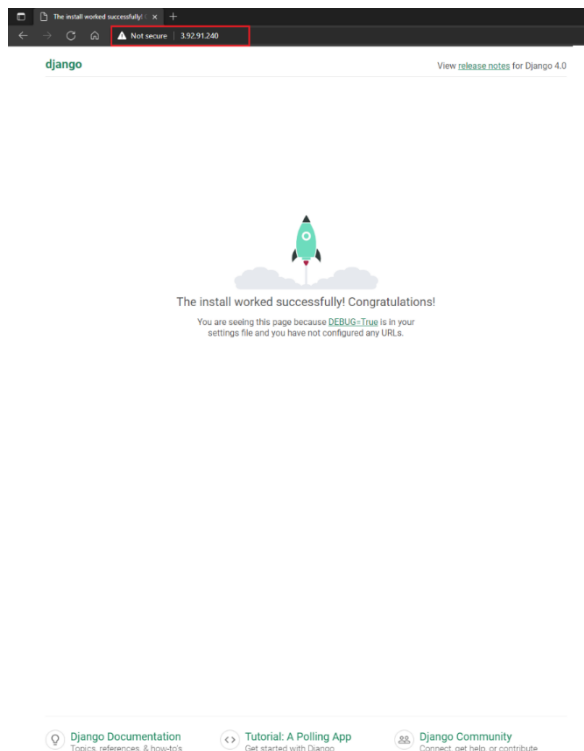Here below are the steps to run the Django app using the Docker files:

1. Clone the repository
   - git clone https://github.com/mahmod-ali29/Bayer.git
2. Go inside the repository
   - cd Bayer/option1
3. Run the containers
   - docker-compose up

It may take up to 5-8 minutes to be ready.

3 Output

Access the application via HTTP (port 80)

Access the application via HTTPS (port 443)