Advanced Java

The following are the steps I would take to deploy the application to the cloud using Azure:

1) Make the app read the backend from the environment and not hardwired to port 8080:
    a) Import ‘Location’ and ‘LocationStrategy’ services to the app component and inject them into the constructor.
    b) Instead of the default URL at ‘localhost:8080’, use ‘this.location.path’, which returns the current URL of the backend.

2) Create a docker image for the application:
    a) Create a dockerfile.
    b) Create a jar file using Maven.
    c) Create a docker image.

3) Push the docker image to the docker hub:
    a) Create a docker account.
    b) Create an access token on the docker hub in case it’ll be needed for logging in.
    c) Create a public repository on the docker hub.
    d) Push the image to my repository on the docker hub.

4) Deploy docker image to Azure:
    a) Create an Azure account and log in.
    b) Create a container app resource on Azure:
        i) specify docker hub as the image source and public as the image type.
        ii) Specify the image name
        iii) Enable ingress, set its type as HTTP, and set its traffic to accept traffic from anywhere.
        iv) Set the port to 8080.

Now I can go to the resource on Azure and click the application URL to load the application on the browser.