D387 – Advanced Java

Student ID:011205284

Trayvonious Pendleton

Deployment to the Cloud

**Deploying a Spring Application to Azure Cloud**

1. **Push Your Image to Docker Hub:**
   * Set up an access token on Docker Hub:
     + Go to your account settings.
     + Navigate to the Security section.
     + Click on "New Access Token" and follow the procedure to generate the token.
   * Push your image to Docker Hub using the following commands:
     + docker tag nameofimage nameofrepository/nameofimage
     + docker push nameofrepository/nameofimage
   * On Docker Hub, go to your repository settings:
     + Click on "Make Public" to make your repository accessible to everyone.
2. **Create a Free Azure Account:**
   * Sign up for a free account on Azure if you haven't already.
3. **Deploy Your Application on Azure:**
   * Go to the Azure portal and select "Create a Resource."
   * Search for "Container App" and create a new resource.
   * Create a new resource group with a unique name.
   * Fill out the required details, including the name of your container app.
   * For "Image Source," select "Docker Hub" and set "Image Type" to "Public."
   * Enter the image name and tag.
   * Enable ingress and select "Accepting Traffic from Anywhere."
   * Choose "HTTP" for the ingress type and set the target port to 8080.
   * Review your configuration and click "Create."
4. **Verify Deployment:**
   * After deployment is complete, go to the resource.
   * Click on the application URL to ensure that your application is running correctly.