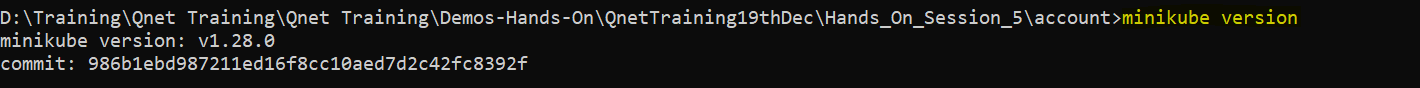
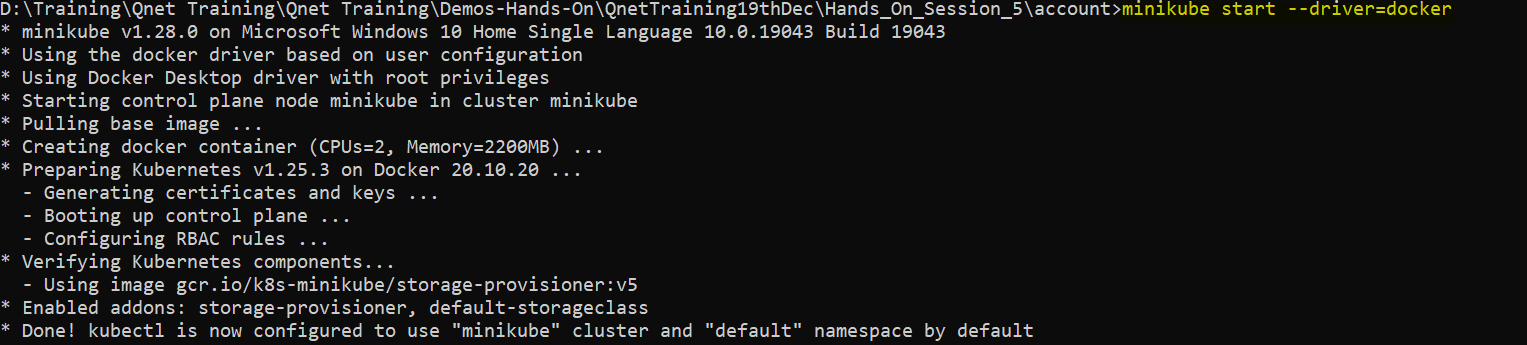
**DOCKER AND KUBERNETES COMMANDS**

NOTE: - We will be running below commands from the microservice folder where we have created DockerFile.

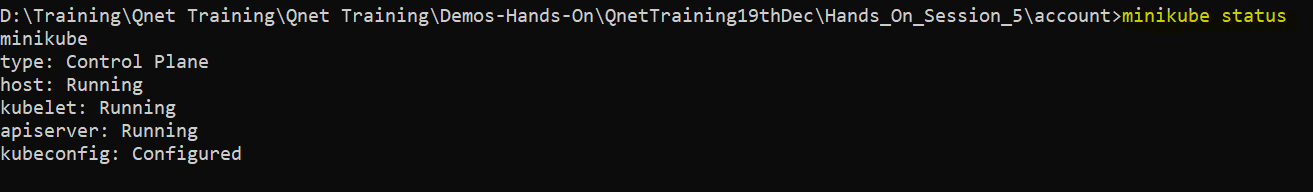
Step 1: - Check the minikube version installed in system:



Step 2: - Now, we need to provide a driver where we can run minikube cluster. In our case we will use Docker:

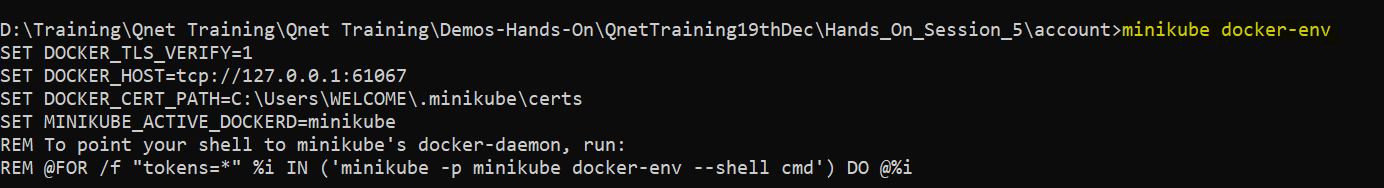


Step 3: - Now check the minikube status

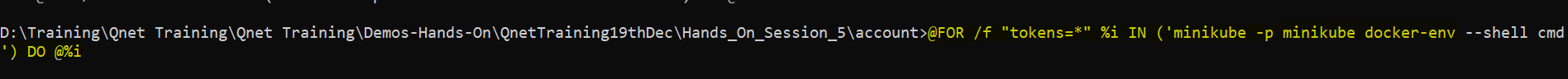


Step 4: - Now run below command to setup docker env in minikube cluster.

(Note: - There are two commands that needs to be run here.)

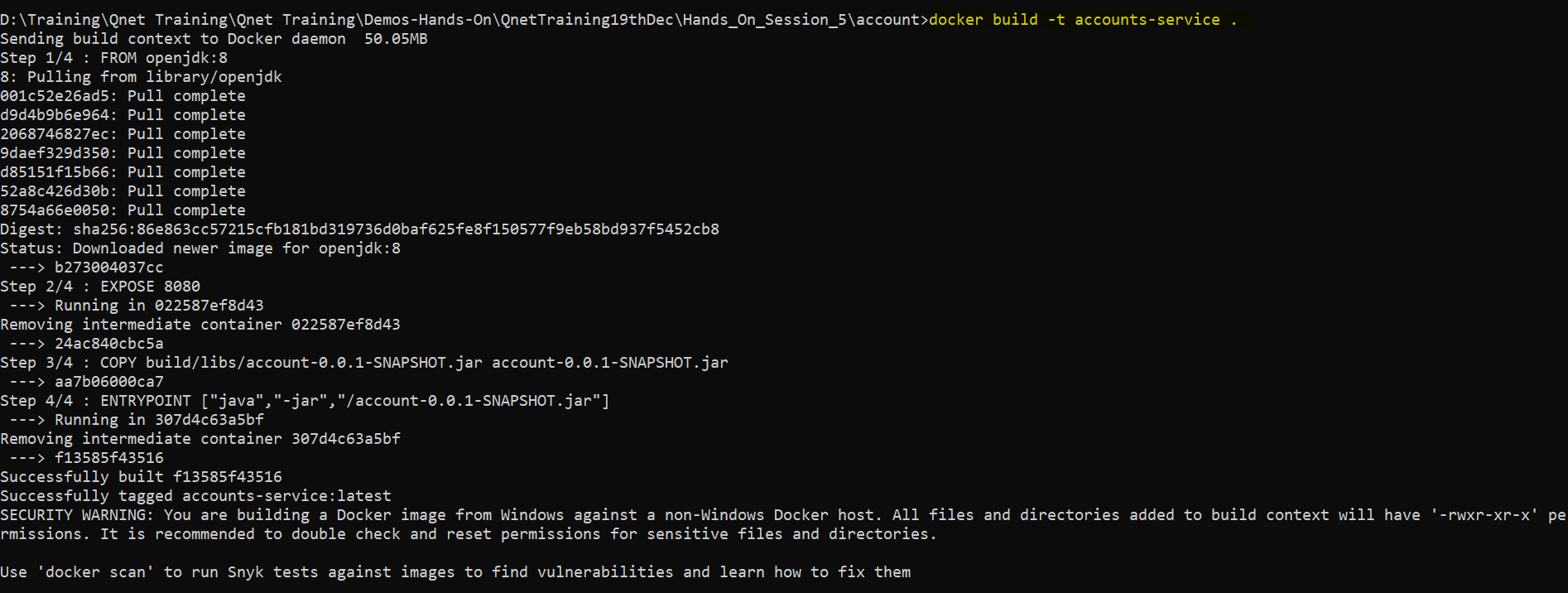


Now, copy the last line from above screen shot output and run as is. Check below screenshot for reference.



Note: - we have not copied ‘REM’ while running the command.

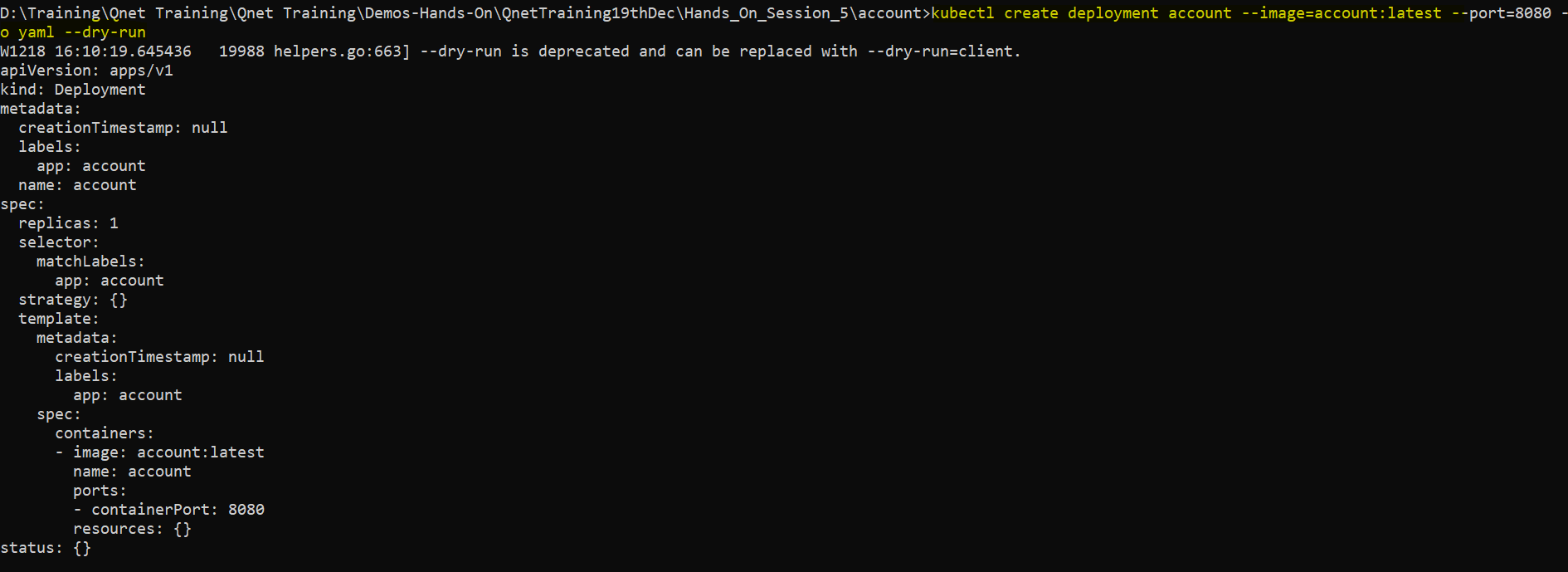
Step 5: - Now create the docker image of microservice that needs to be deployment in kubernetes pods.



Step 6: - Once you have created the image successfully, try running below command to see the image which was created.



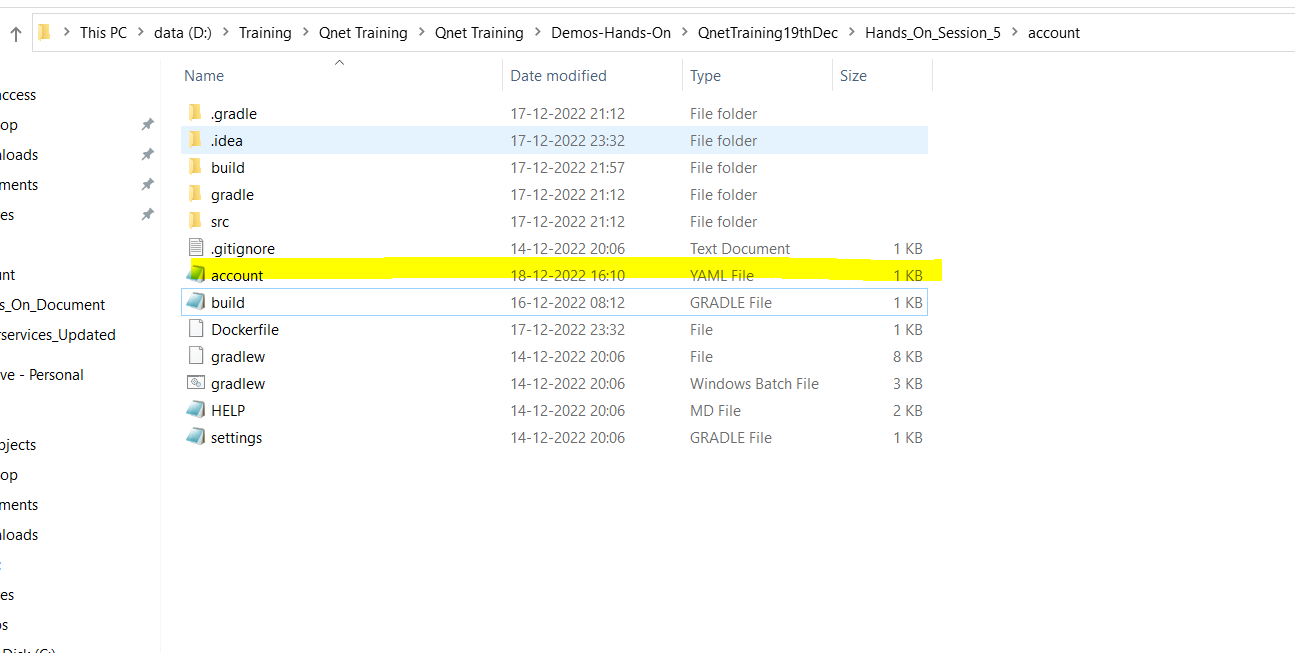
Step 7: - Now create the deployment object yaml file. Run below command to generate one.



Note: - We need to add one attribute in the yaml file which is generated from the above command.

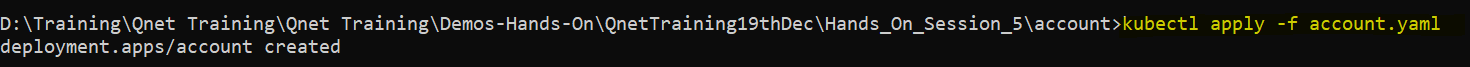
imagePullPolicy: Never

Now copy all the output generate in a separate file. Attached one for your reference.

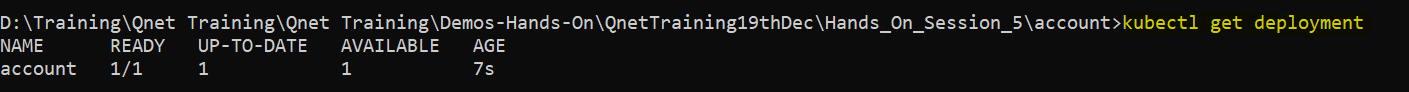


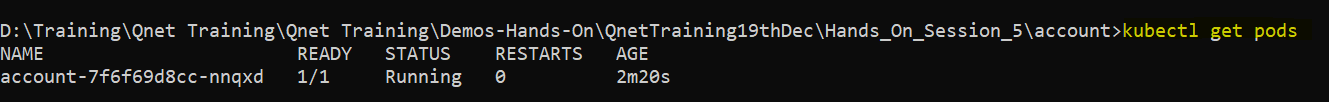


Step 8: - Now apply the yaml changes for creating the deployment object

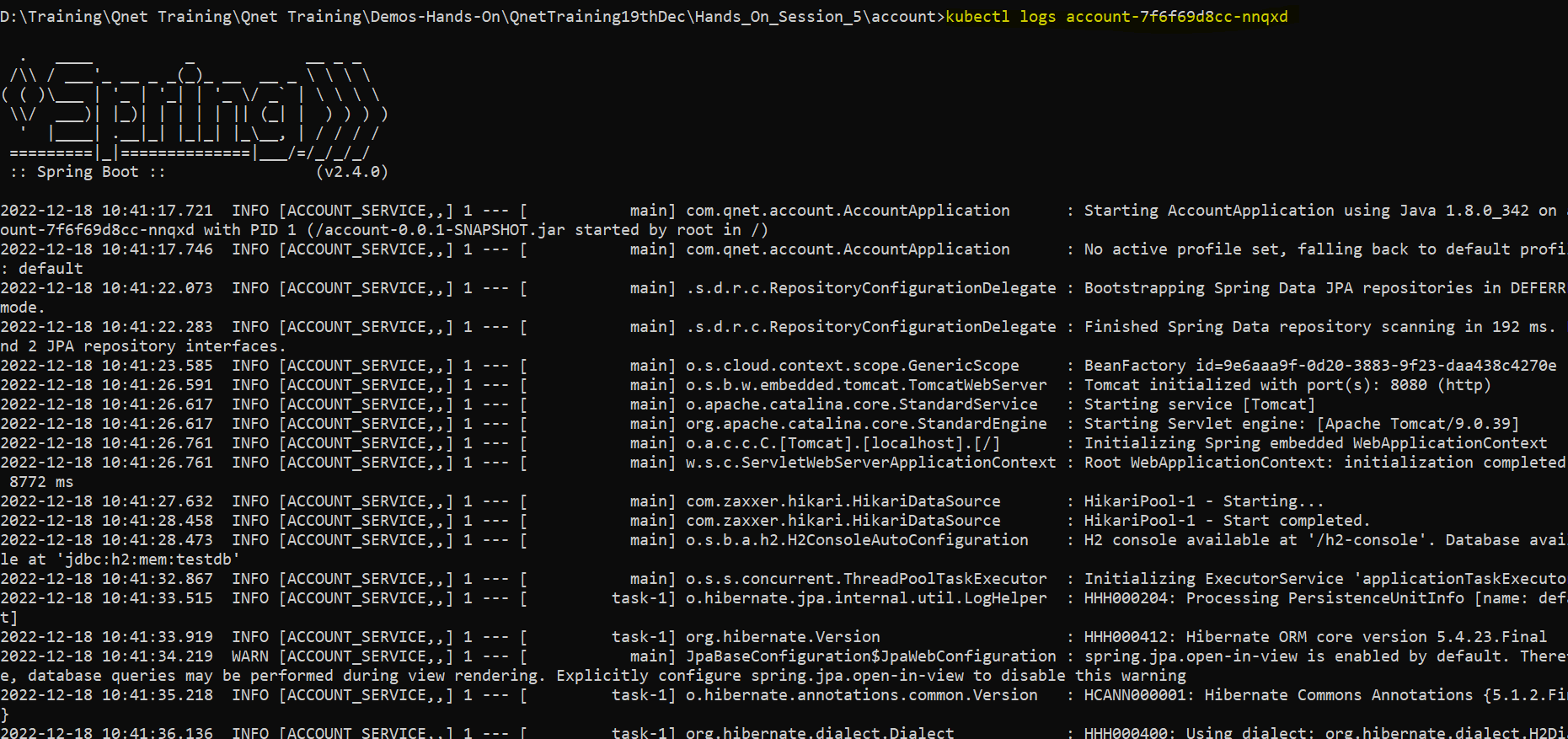


Step 9: - Run below command to check the deployment object and the pods.

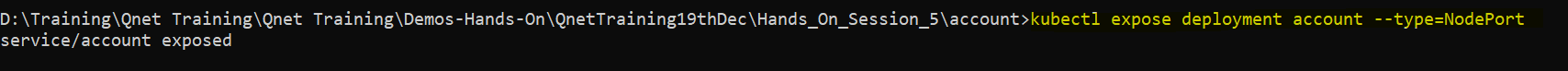




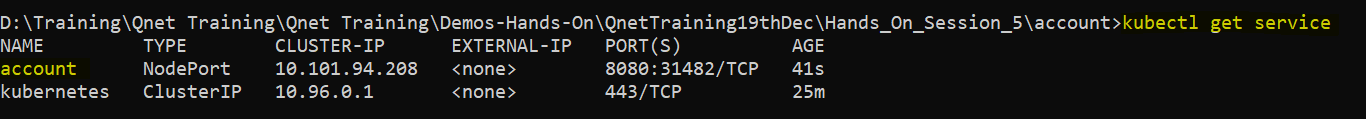
Step 10: - Check the pods logs to see if the docker image is successfully deployed in pods.



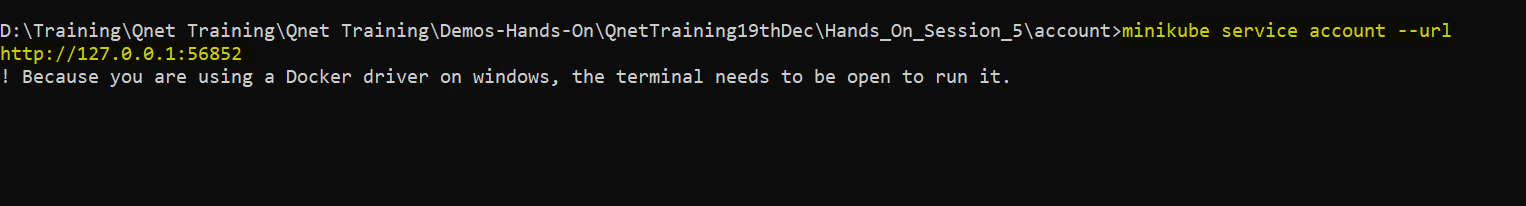
Step 11: - Expose the deployment object to be access by service component.



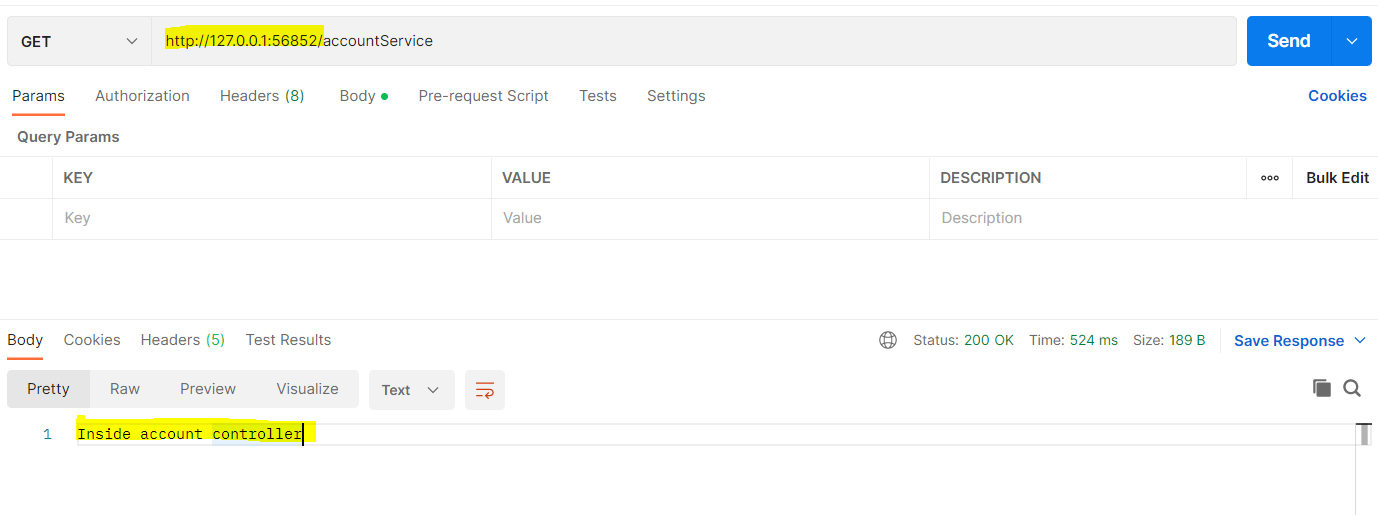
Step 12: - Fetch the service with below commands



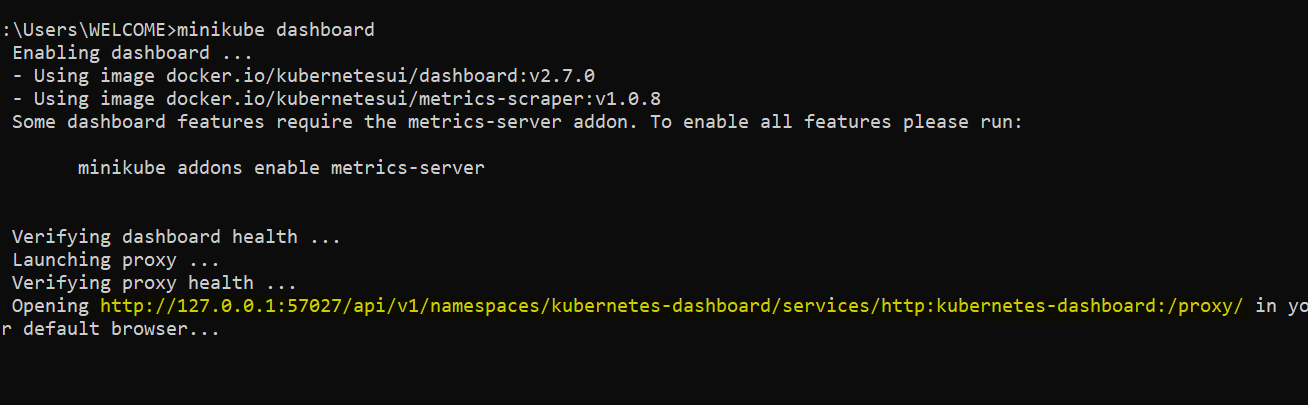
Step 13: - Fetch the url to access the application



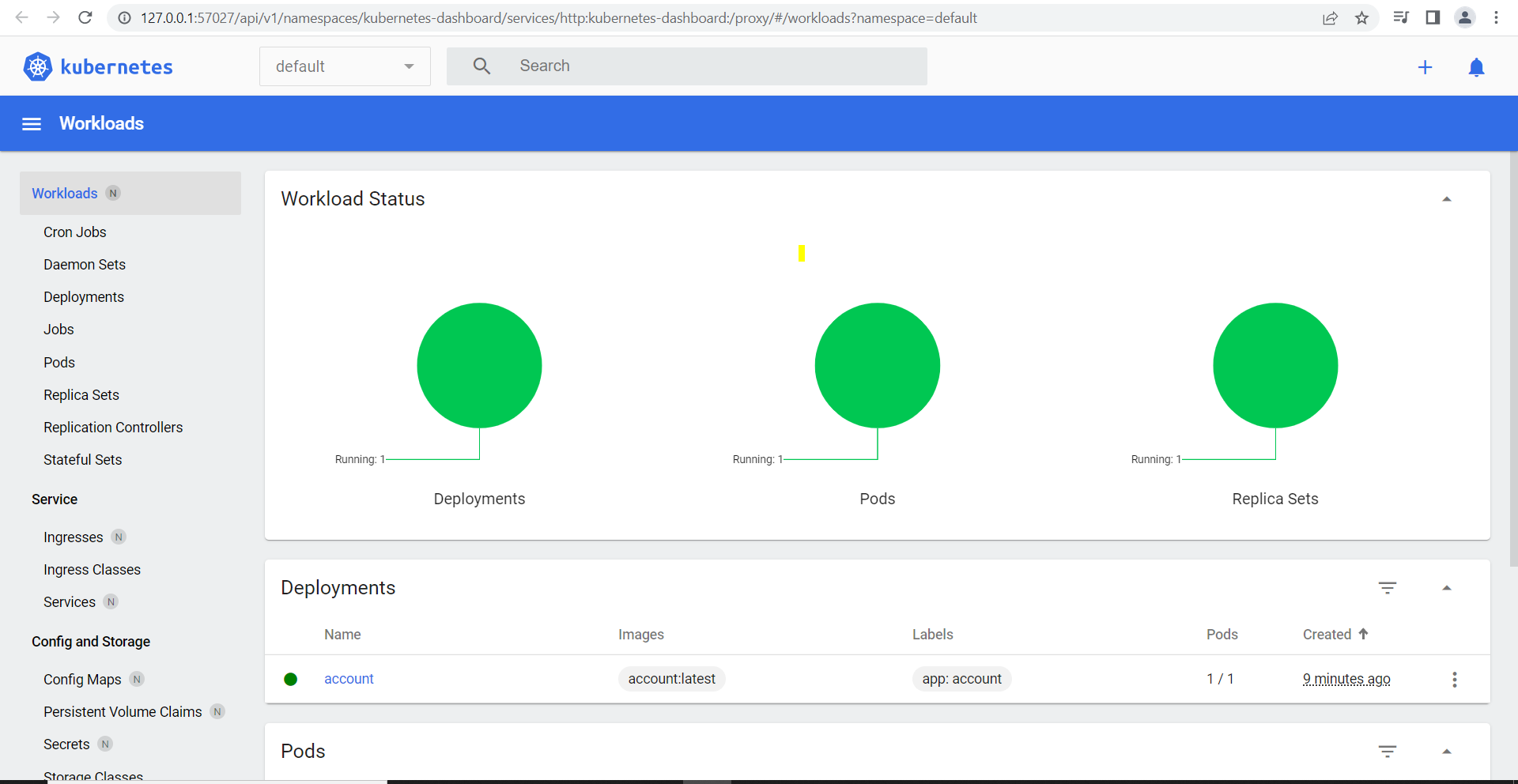
Step 14: - Try to access the microservice endpoint



Step 15: - You can access the kubernetes dashboard with below command

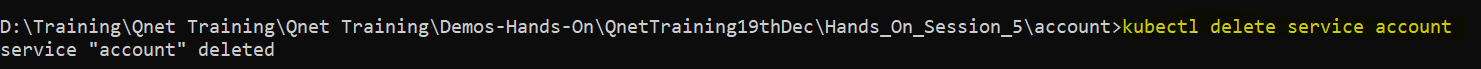


Dashboard page: -

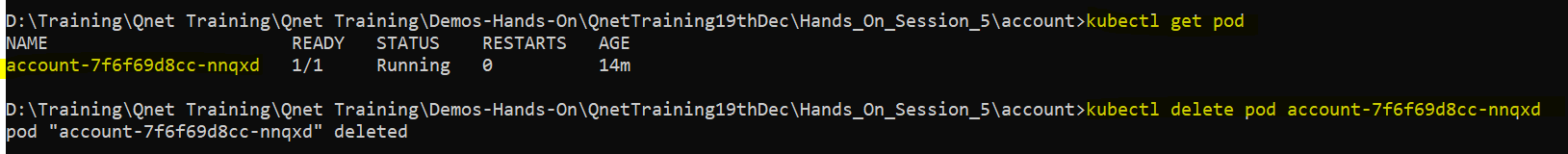


CLEANUP ACTIVITY

Step 1: - Delete the service



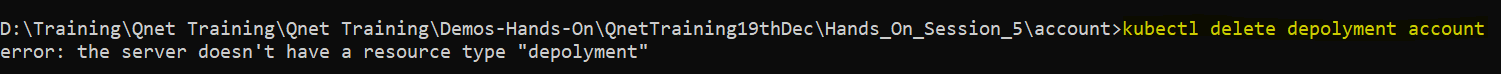
Step 2: - Delete the pod



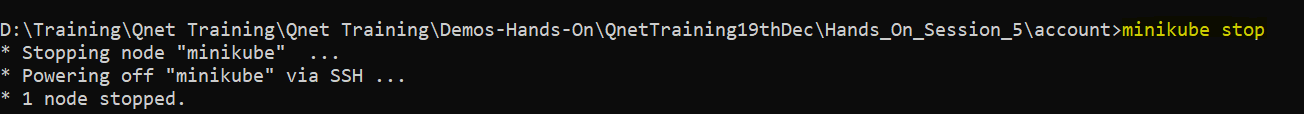
Step 3: - Delete the deployment

Note:- You can get the deployment object name using command

kubectl get deployment



Step 4: - Stop the minikube to delete it.



Step 5: - Delete the minikube

