Cloud Computing Assignment – 1

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Links of the webservices:

- For entering data into the database.

Link 1: https://rahulservice1.azurewebsites.net

To add data apped this to the url '/?msg=<value>'

- For rendering the average of all the values present in database

Link 2: https://rahulservice2.azurewebsites.net/

Technologies used:

- Listening to requests: Nodejs, ExpressJs and Mongoose
- Database used: MongoDB
- Containerisation engine used: Docker
- Cloud Service provider: Azure

Steps for deploying the webservice:

1 . First create a webservice which listens to the port number - 5000 and another webservice which listens to the port number 8000. I have used ExpressJs for both the services to listen to the ports.

2 . Now to connect these webservices to the mongoDB atlas use the URL given in the connect option of the cluster created in atlas.

3 . Next create a container registry in Azure.

4. Now in the terminal of the service created I have executed the following commands:

- docker build -t rahul.azurecr.io/service_1:latest .
- docker build -t rahul.azurecr.io/service_2:latest .

The above steps create images of both services.

5 . Next we need to push the images into the container registry using the following commands.

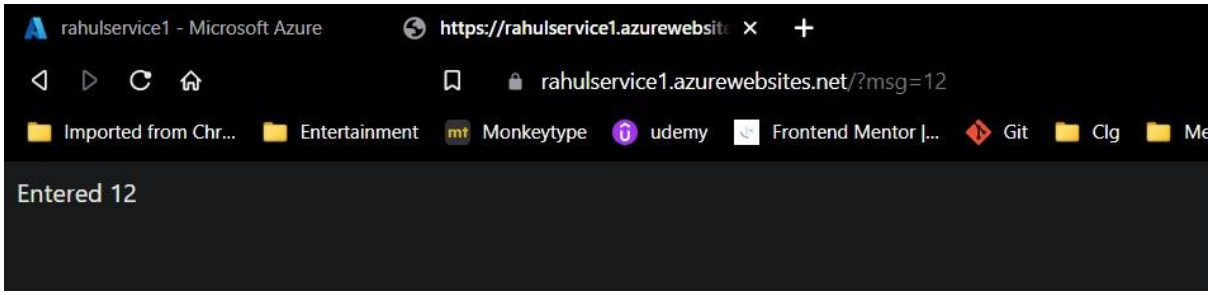
- docker push rahul.azurecr.io/service_1:latest
- docker push rahul.azurecr.io/service_2:latest

6 . After pushing the images to the container registry, we need to create a web app for these images to get the public URL's.

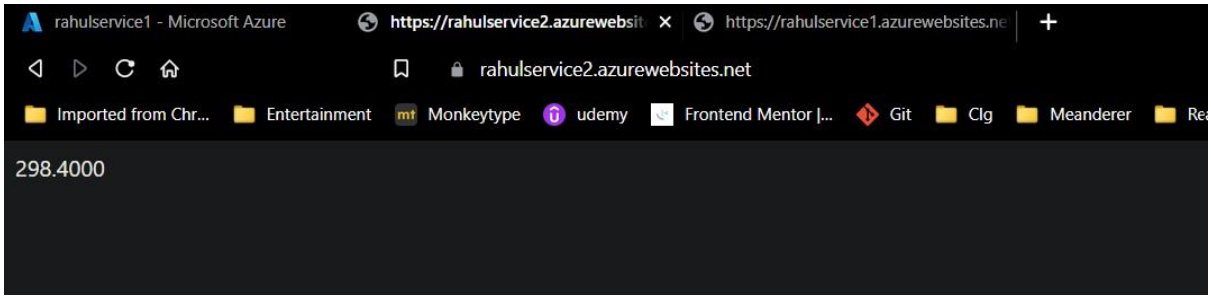
7 . Now that the web apps are created we can access the webservices using the public URL's generated in the previous steps.

Output:

Service 1:



Service 2:



Service two is displaying the average of all the previously entered data.