CC REPORT ASSIGNMENT – 1

NAME: RAHUL VARMA

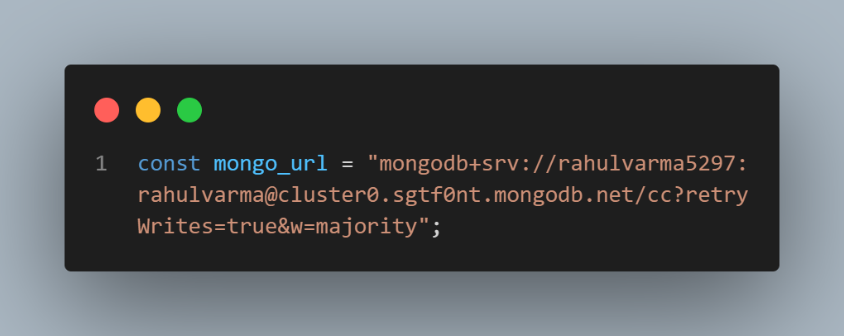
Roll No: S20200010212

1.Details of my setup:

(IP, port, GET parameter name etc.)

CREATED TWO SERVICES

* Named service1 and service2
* Using Express created a get request for each service for showing output on the browser page.
* Using mongoose (mongo DB) connected to a data base
* Link for my mongo DB database is show below.



Link: "mongodb+srv://rahulvarma5297:rahulvarma@cluster0.sgtf0nt.mongodb.net/cc?retryWrites=true&w=majority"

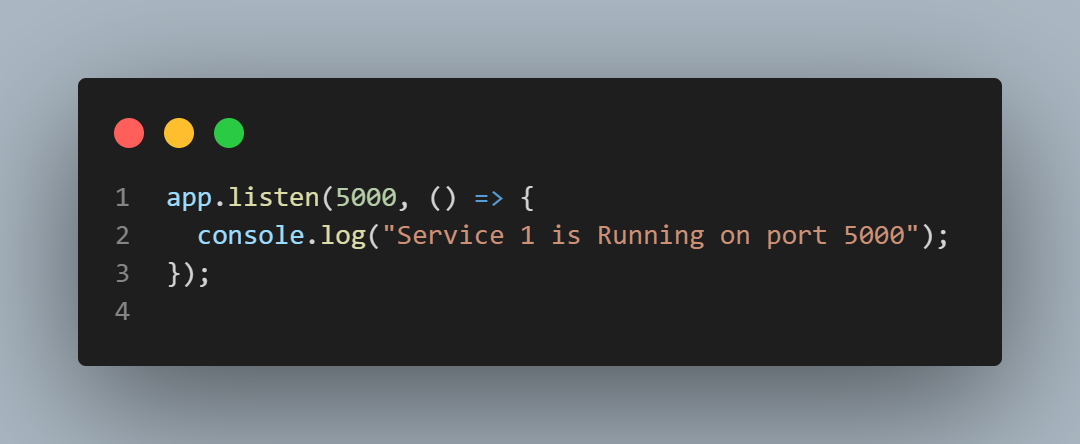
Created Schema and Model for inserting data into database and accessing the data from the database

SERVICE 1:

PORT = 5000

GET parameter name: msg

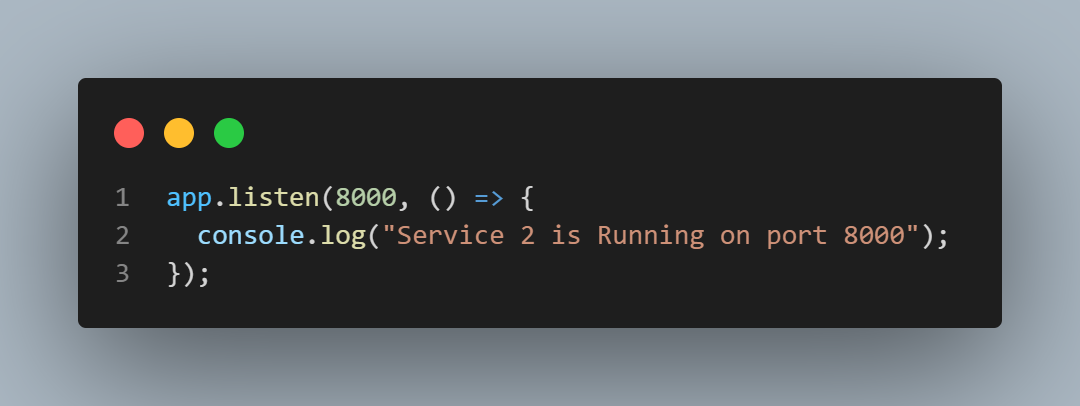




SERVICE 2:

PORT: 8000

No Parameter for service 2, just the output is average value.



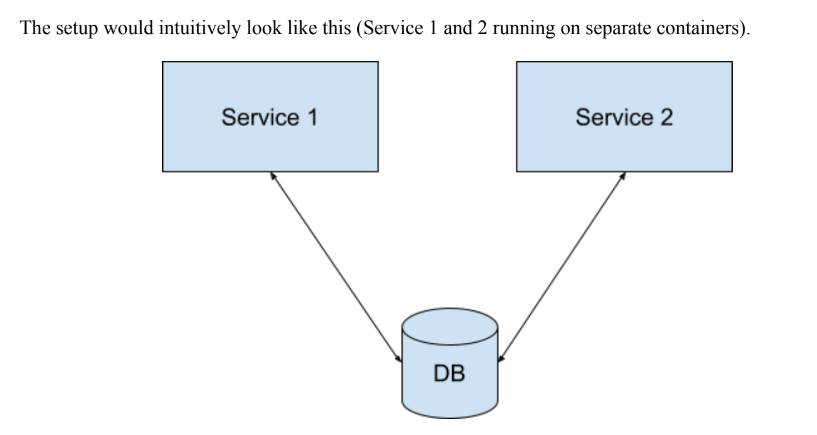
2.Web technology used, database used, how the setup was hosted online, which cloud provider was used etc. included the Docker files/YAML files and about the build setup.

* Web Technology used is Node.js (express).
* Database used is MongoDB.
* Cloud Provider used is Microsoft Azure.

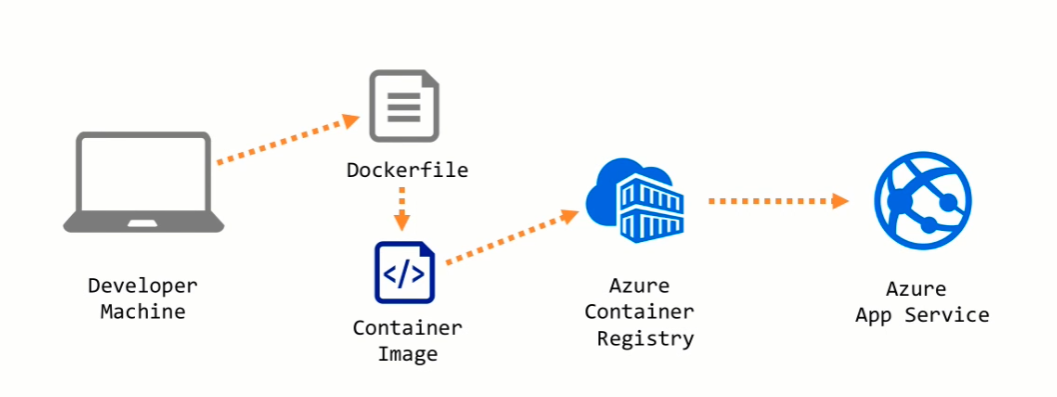
The Process of the Setup:

Taking a Developer Machine, a docker file and building our own container image and pushing that container image to a container registry by using the Azure container registry.

Push a container image to it and then run a container based off that image in azure app service as a web application.



Process in one image:

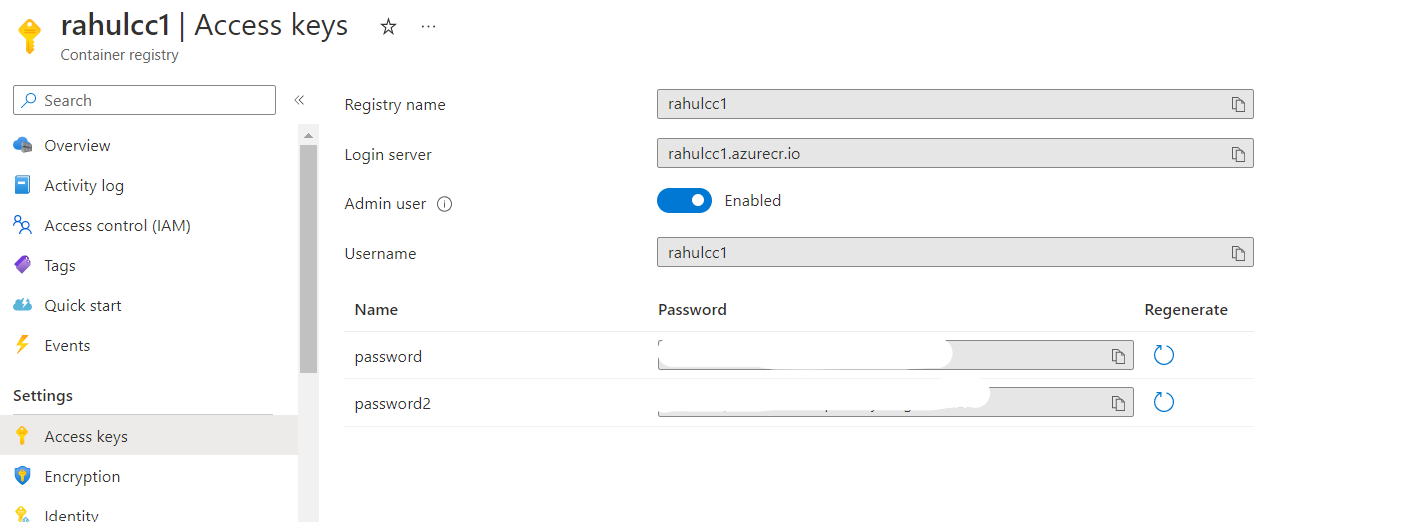


Created a New Resource using Container Registry for service 1 and service 2

Created a new container Registry with Registry Name rahulcc1 for service 1

And rahulcc2 for service 2.

We get Access keys for both container Registry like shown in below image:



We run the command in service1 and service2 terminal from our local system

docker login rahulcc1.azurecr.io

docker login rahulcc2.azurecr.io

Using the username and password shown in above image we can login for the container registry.

Now we should do build and push the code to the container registry.

Commands for building the code is:

docker build -t rahulcc1.azurecr.io/rahulcc1:latest .

docker build -t rahulcc2.azurecr.io/rahulcc2:latest .

Commands for Pushing the code is:

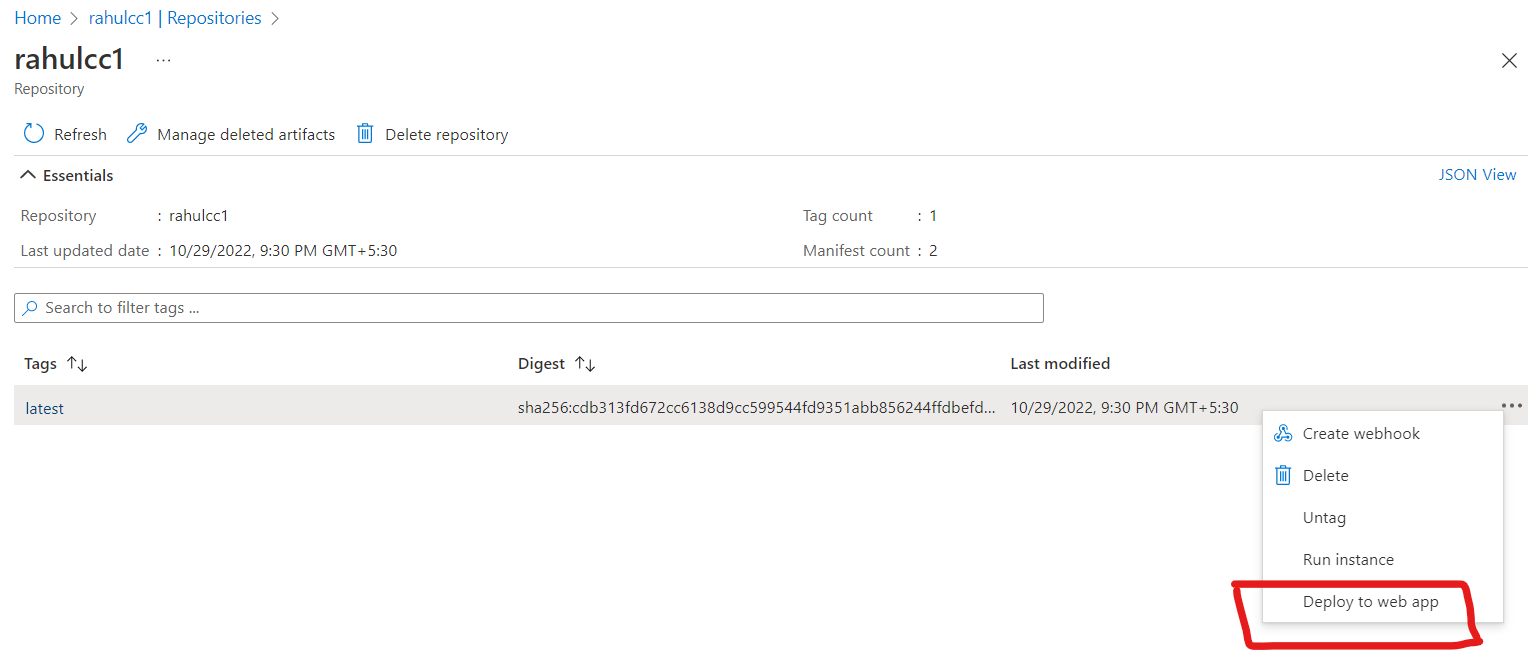
docker push rahulcc1.azurecr.io/rahulcc1:latest

docker push rahulcc2.azurecr.io/rahulcc2:latest

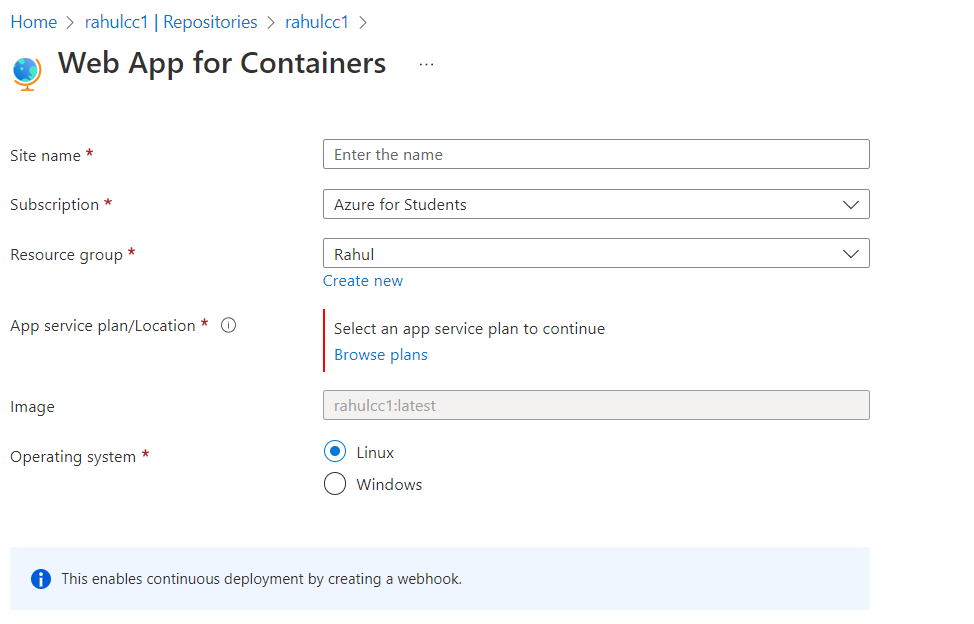
Now the Code is Pushed into the Container Registries.

Now for Each Container Registry we should deploy to the web.

For Deploying we get the option as shown in the below image:



We get this page for Deploying to web app



We can give the site name and the link is generated

Site Name given are as follow:

s20200010212service1 for service1

s20200010212service2 for service2

Then the Link Generated are as follows:

SERVICE 1: <https://s20200010212service1.azurewebsites.net>

SERVICE 2: <https://s20200010212service2.azurewebsites.net>

Docker File Used for service 1 is:

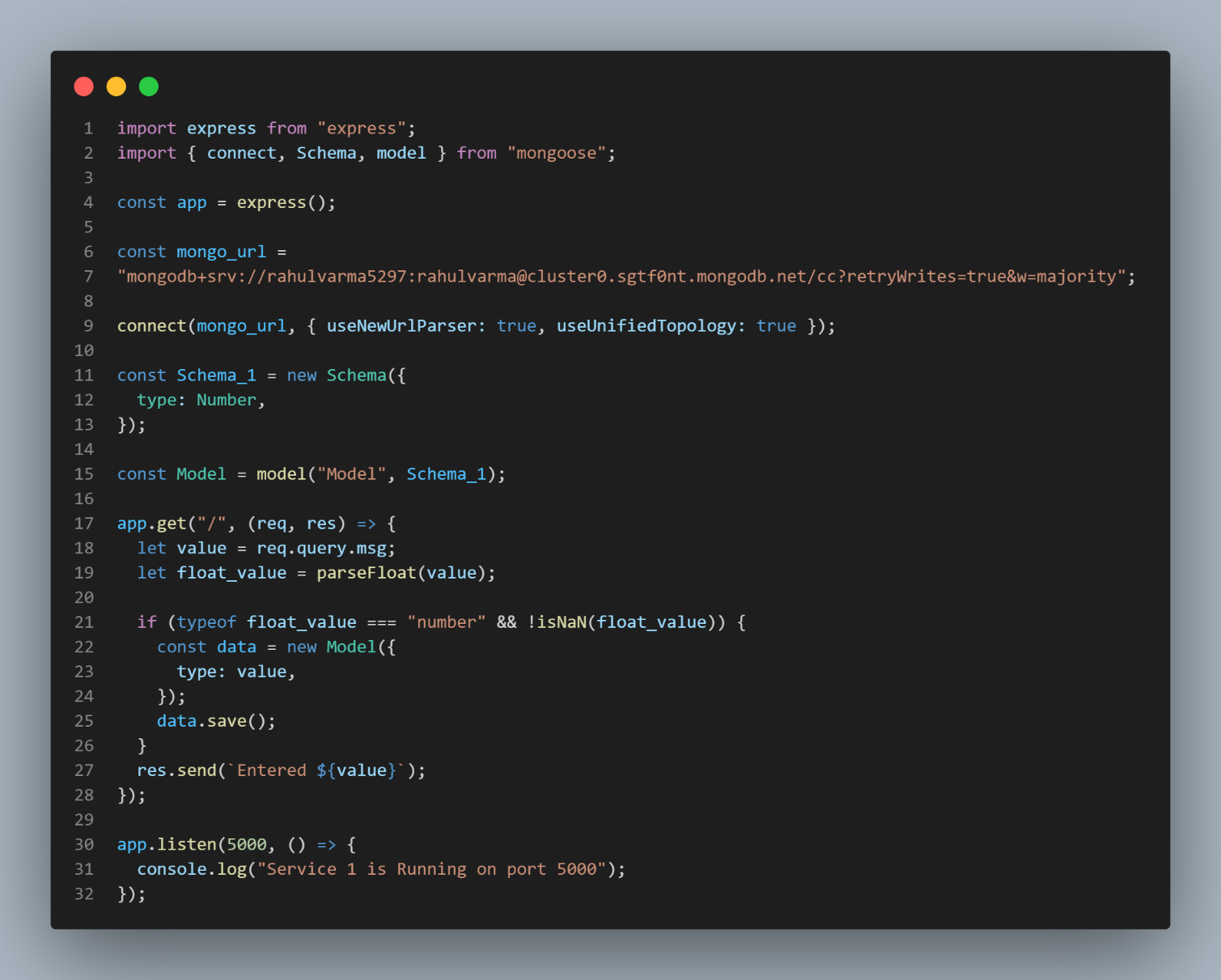


Docker File Used for service 2 is:



Full Code for service1 and service 2 is shown in the next two pages using node, express, mongoDB.

Index.js for service1:



Index.js for service 2:



CREATED TWO SEPARATE SERVICES, CONNECTED TO THE SAME BACKEND DATABASE.

For Evaluation:

DATABASE IS CLEARED.

Enter Data Using GET Parameter

Example: <https://s20200010212service1.azurewebsites.net/?msg=10>

And add another as msg=20

Check in the service 2 link (ie. <https://s20200010212service2.azurewebsites.net>)

Average value will be 15.

🡨 THANK YOU 🡪