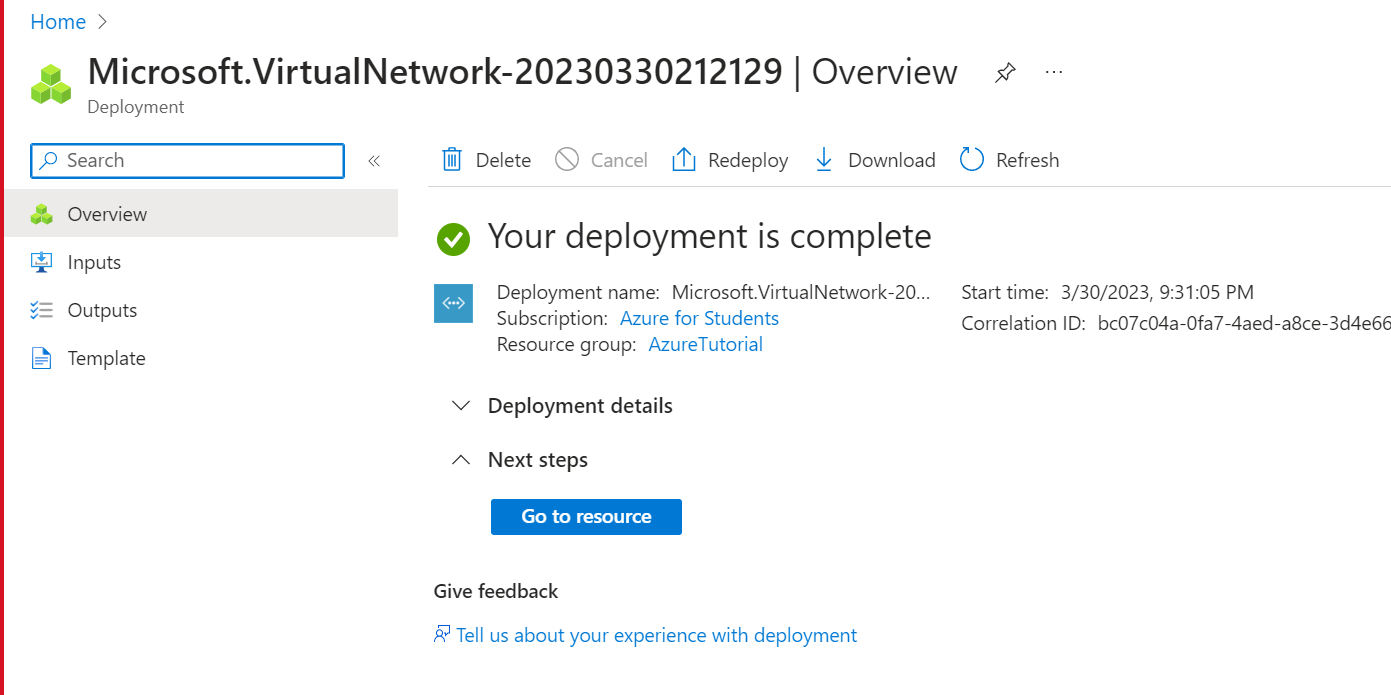
# Task 1:

Virtual network with 2 subnet validation passed:  
Graphical user interface, application

Description automatically generated

Virtual network deployed:



Graphical user interface, application, Word

Description automatically generated

16 IPs are allocated to both subnets (5 IPs are reserved by azure for gateway, dns and other purposes)

# Task 2:

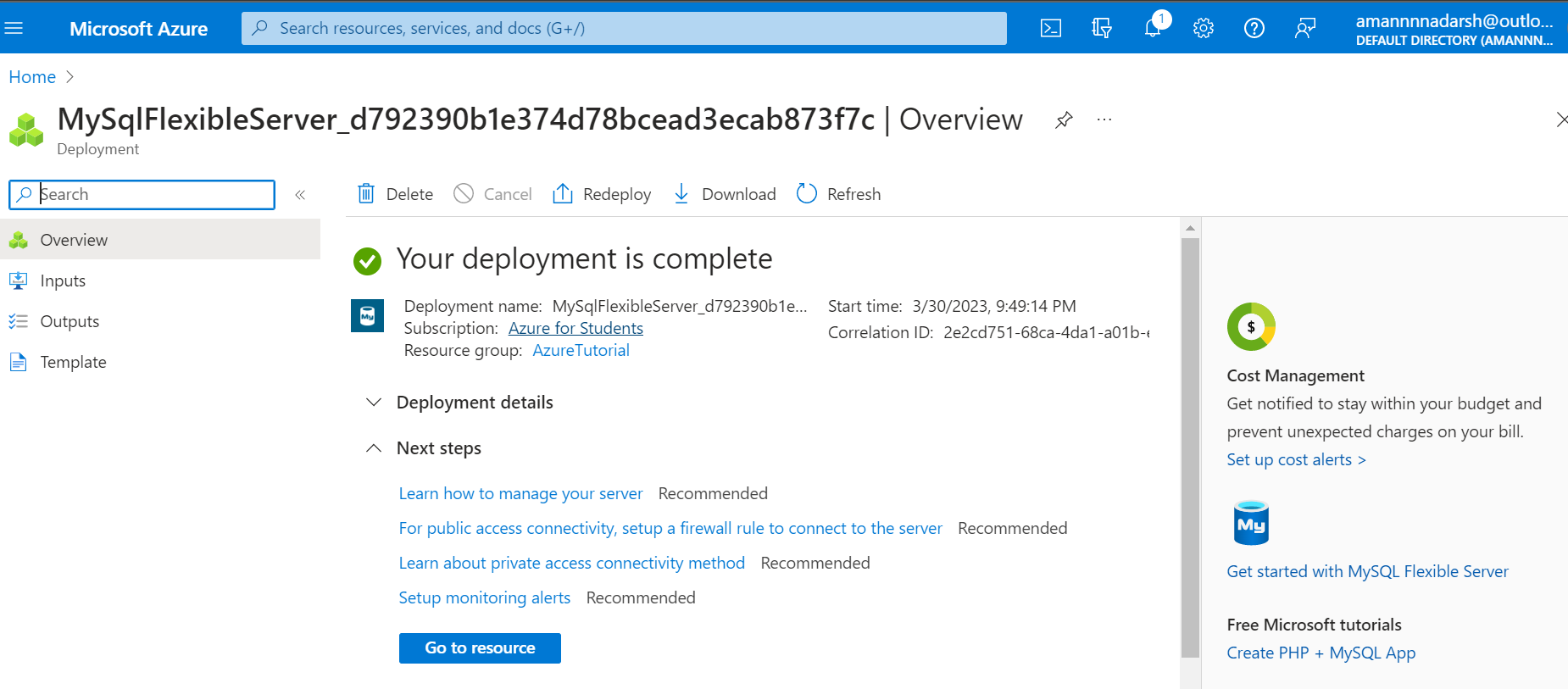
VM deployed on subnet:  
Graphical user interface, text, application, email

Description automatically generated

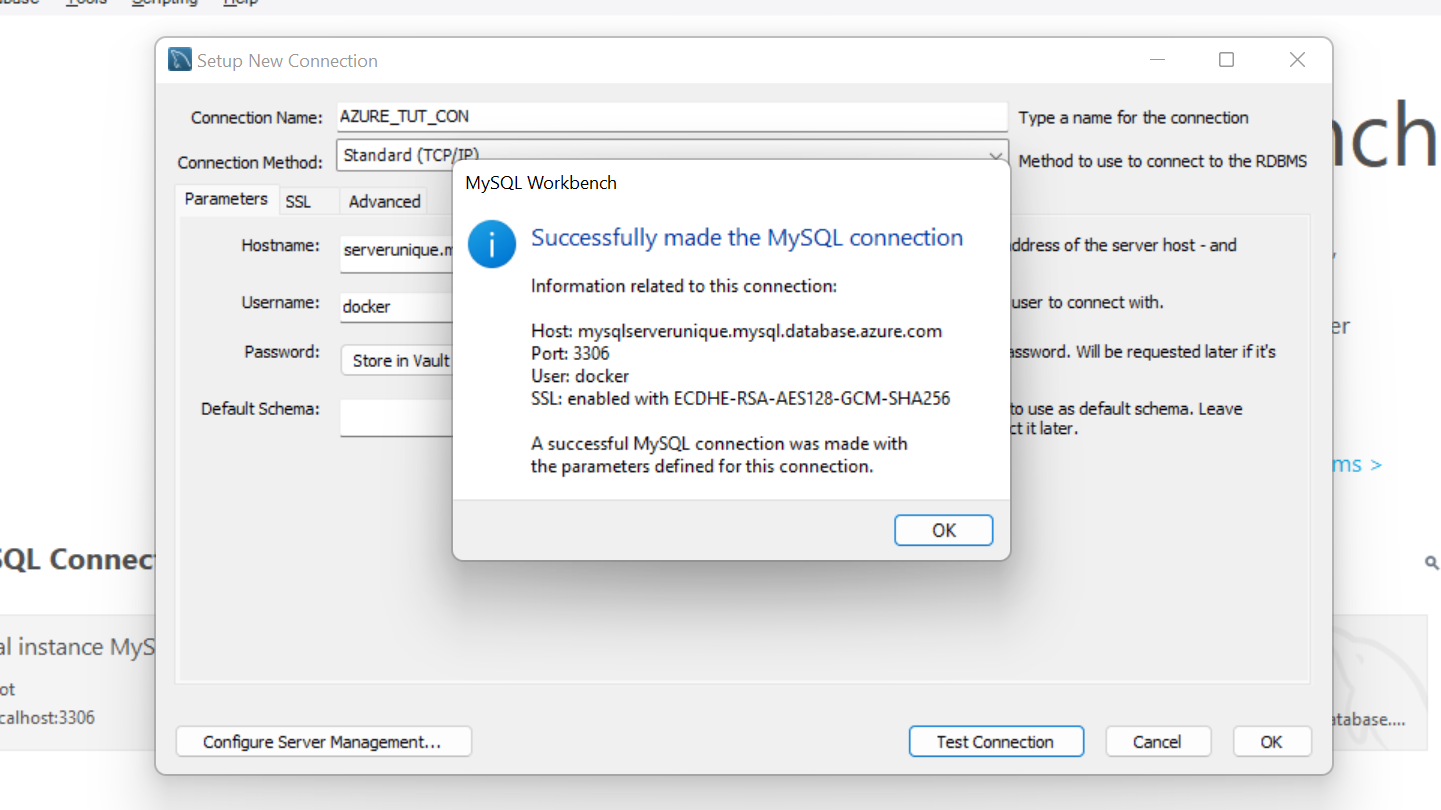
Graphical user interface, text, application, email

Description automatically generated

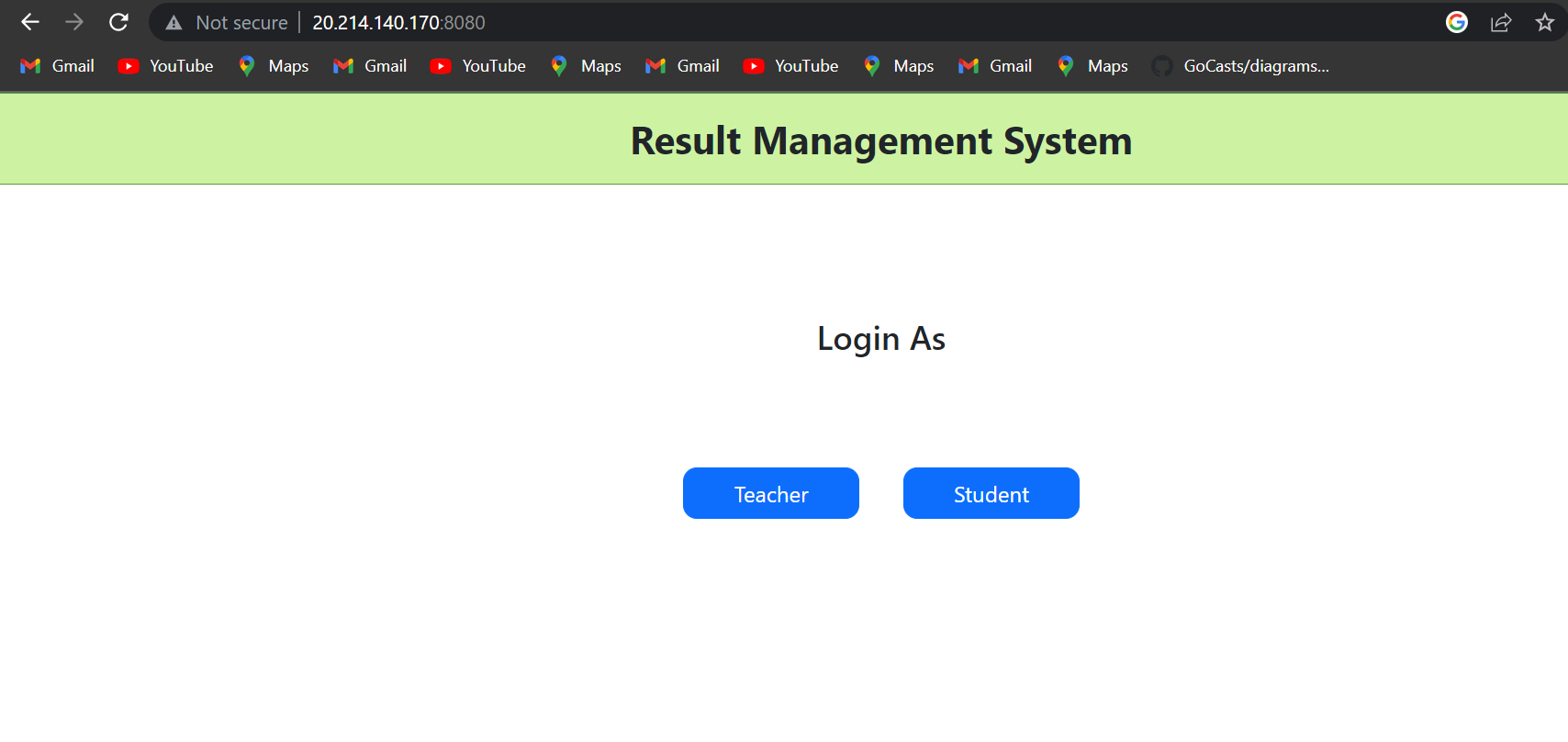
SQL database created on azure:



Database accessible from inside machine:



Code deployed through VM:



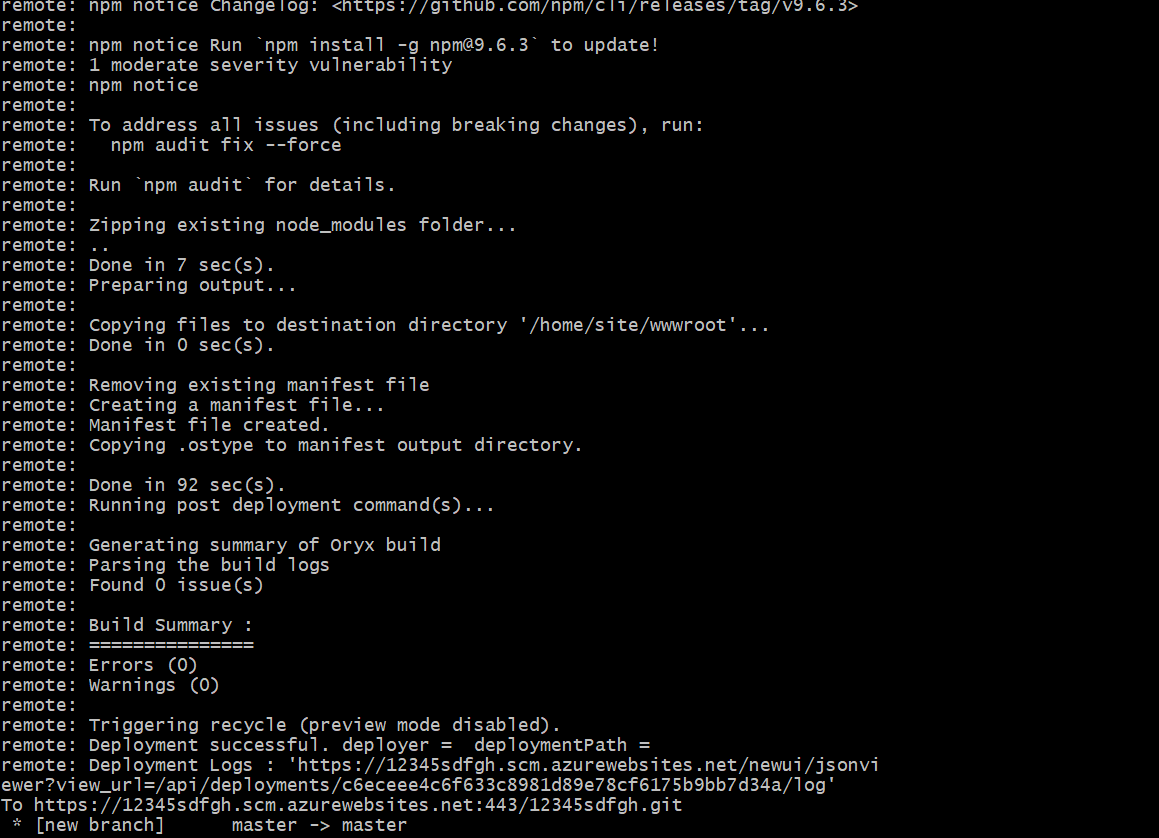
# Task3:

Created app service:

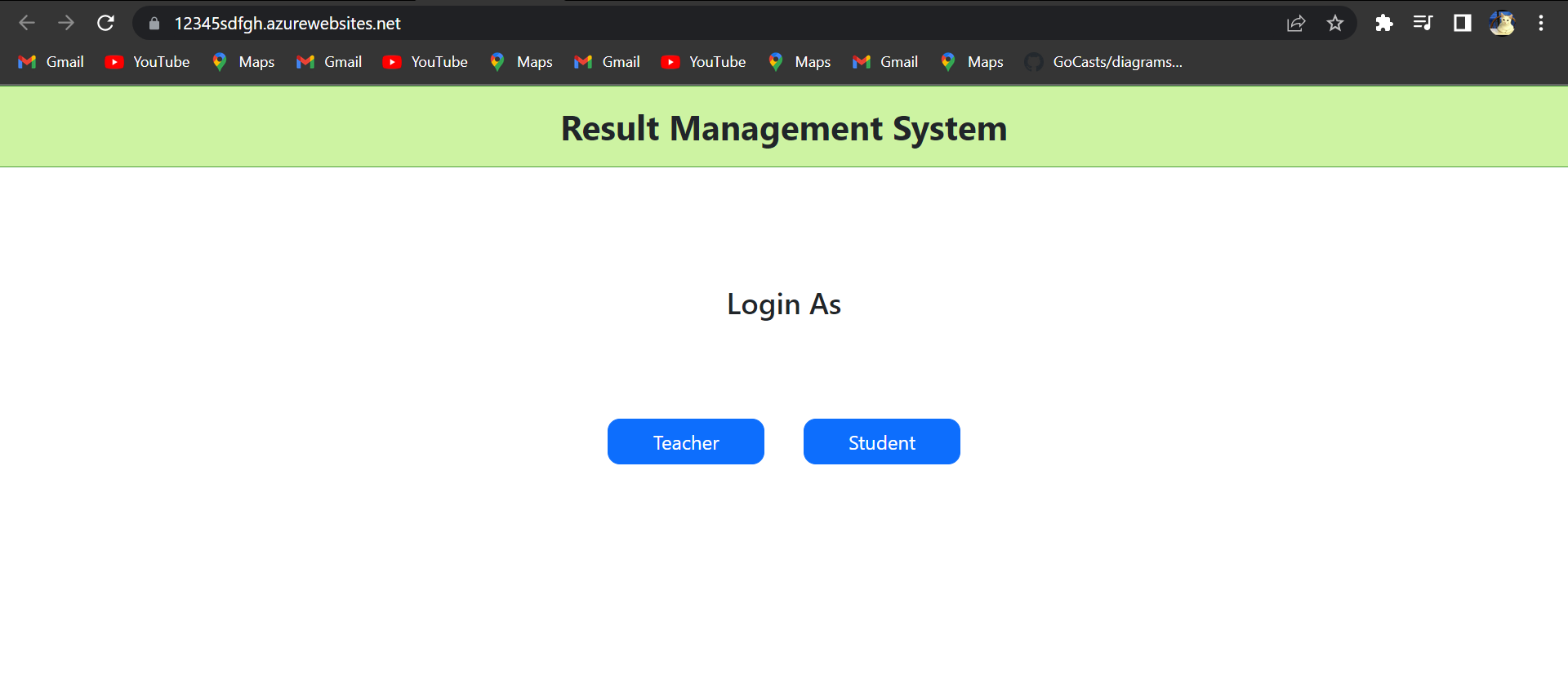
Graphical user interface, text, application, email

Description automatically generated

Pushed and deployed code from local git



Application accessible through the web:



# Task 4:

Create an azure Kubernetes service resource container.

Graphical user interface, text, application, email

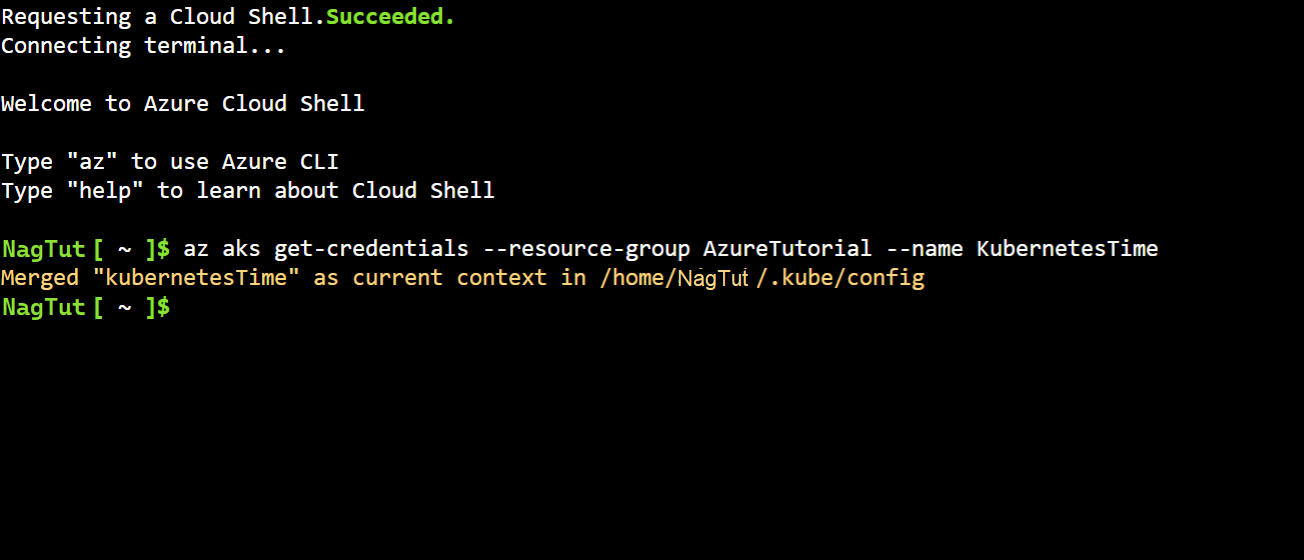
Description automatically generated

Connect to the azure cli (bash or powershell):

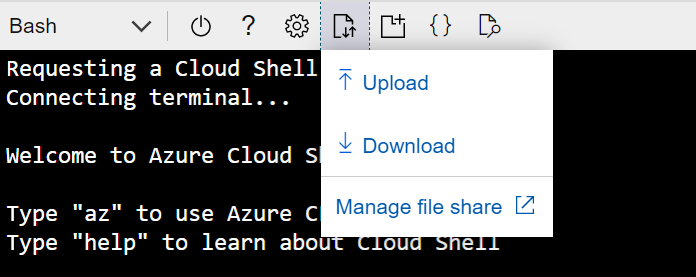
Text

Description automatically generated

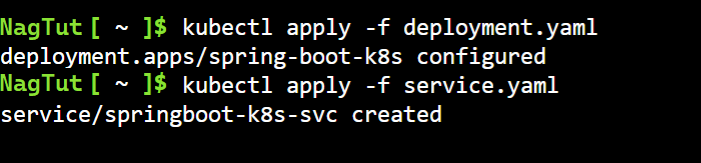
Connect to the cluster:



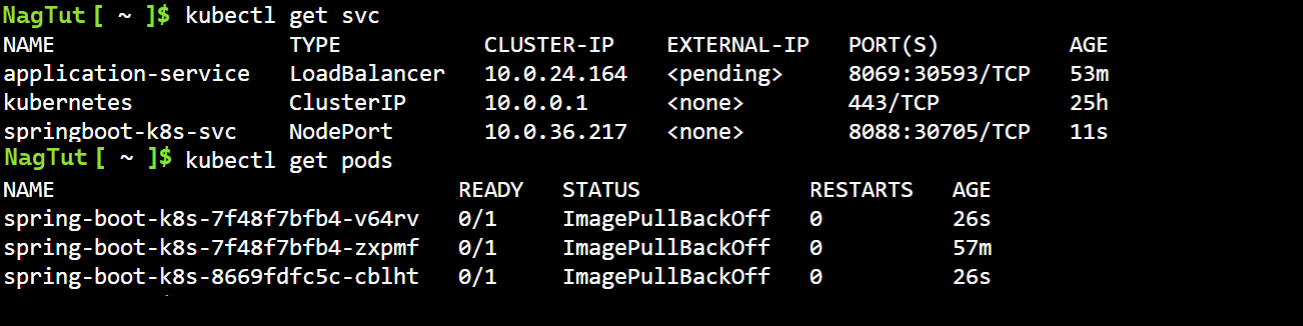
upload deployment and service yamls of the docker image:



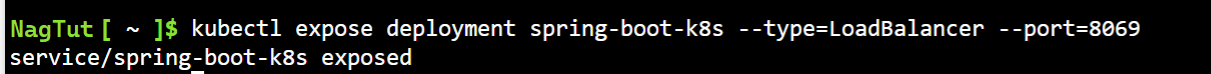
Apply the deployment and service files through kubectl apply -f command:



Get deployment details through kubectl get pods and kubectl get svc :



Expose the port after the status of the service is changed to “Ready”:



Go to the port and check the service:

Graphical user interface, text, application, email

Description automatically generated

# Task 5:

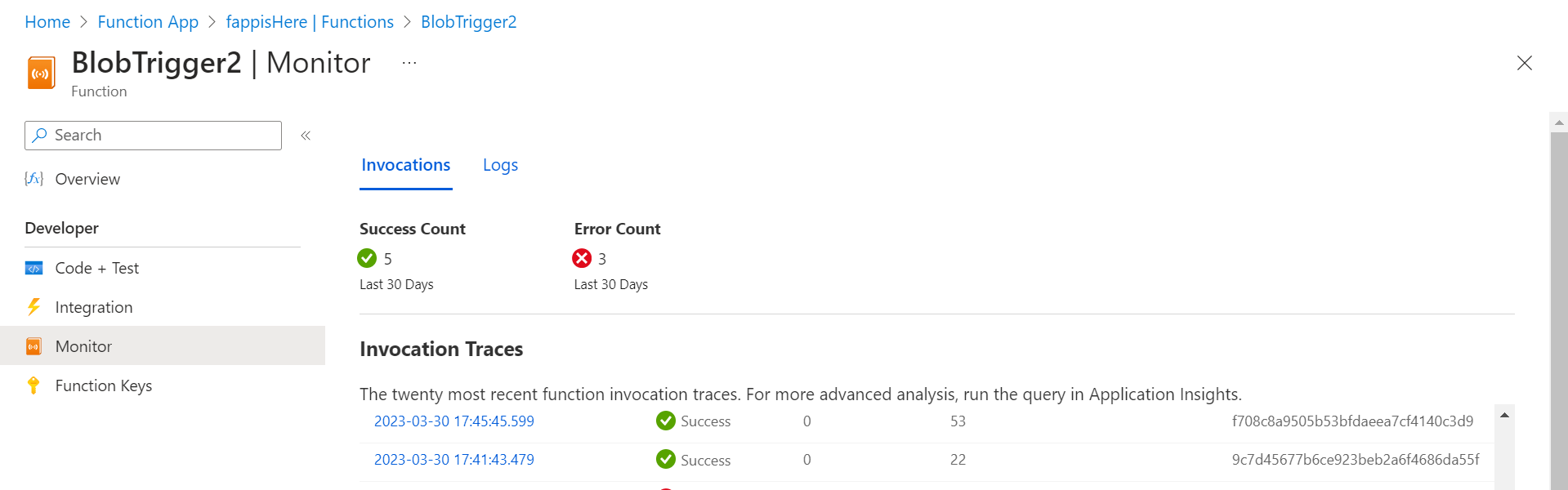
Function app creation:

Graphical user interface, text, application, email

Description automatically generated

Creation of blob trigger and container:  
Graphical user interface, text, application, email

Description automatically generated



Uploading file in container:  
Graphical user interface, text, application

Description automatically generated

Function triggered:

Graphical user interface, text, application

Description automatically generated

