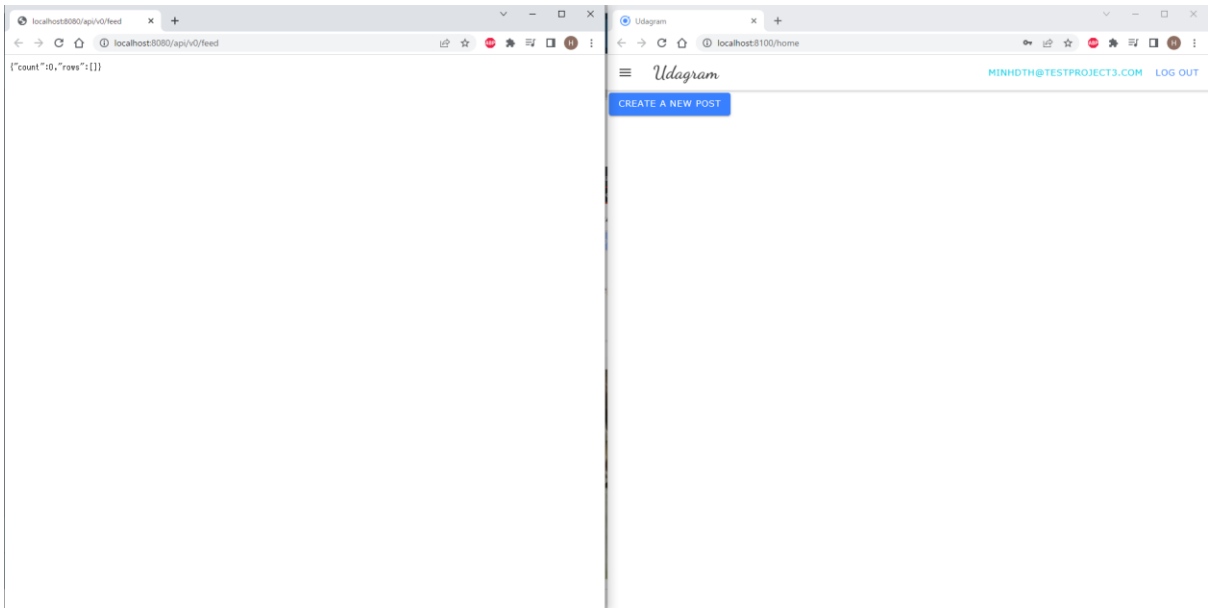
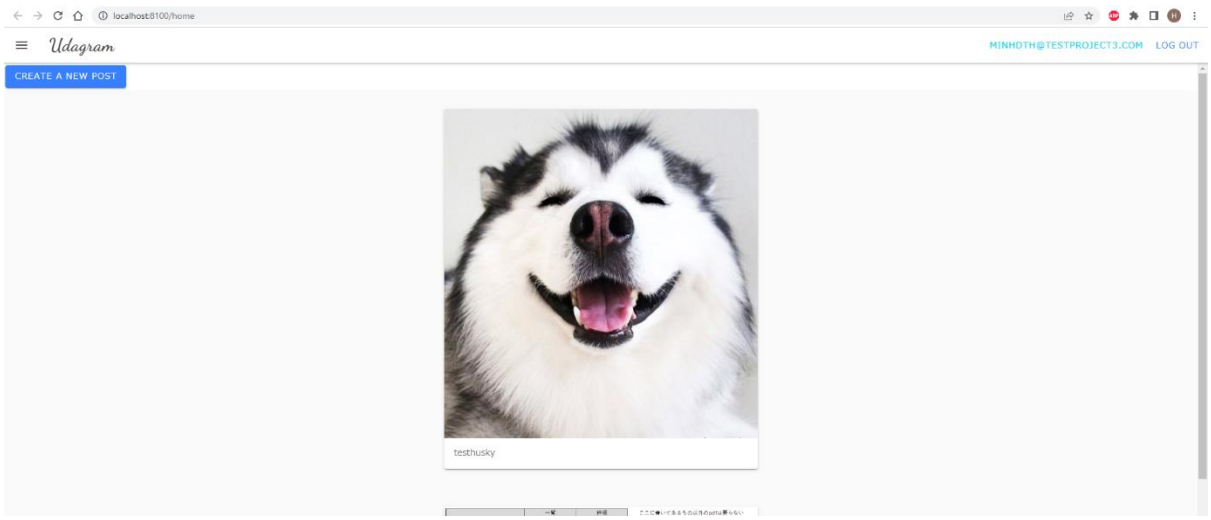
Report project 3

Project owner: MinhDTH

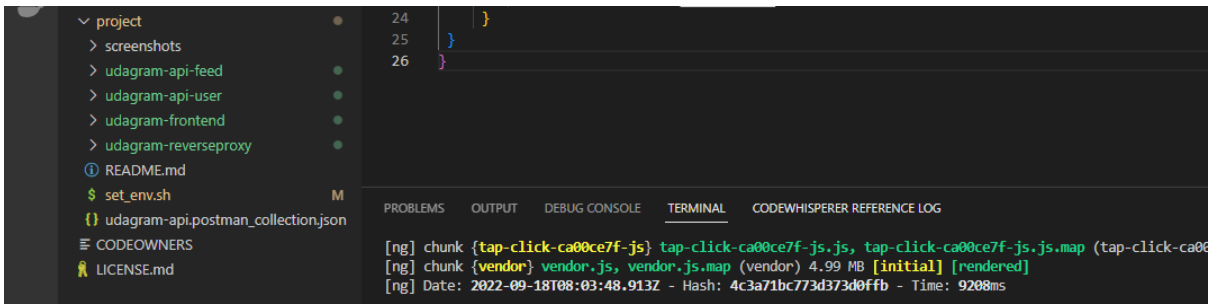
1. Part I -Monolithic application: run on local result



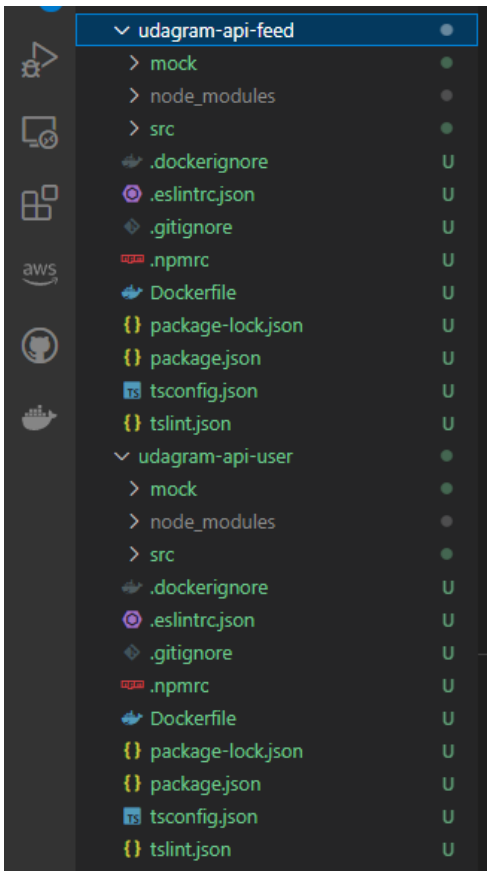


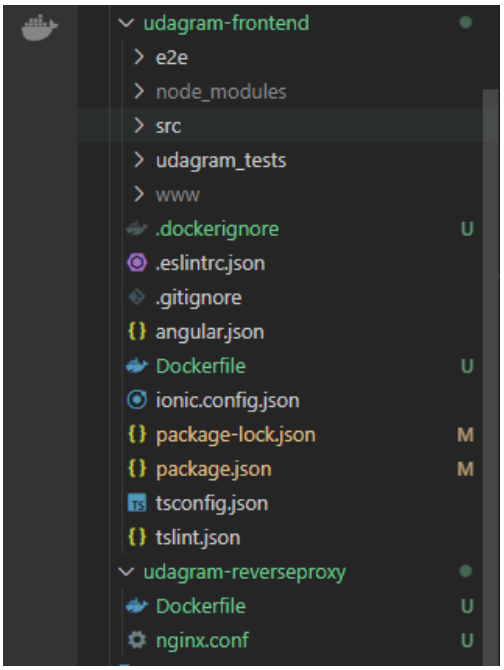
2. Part II: Microservices application:

   Divide an application into microservices

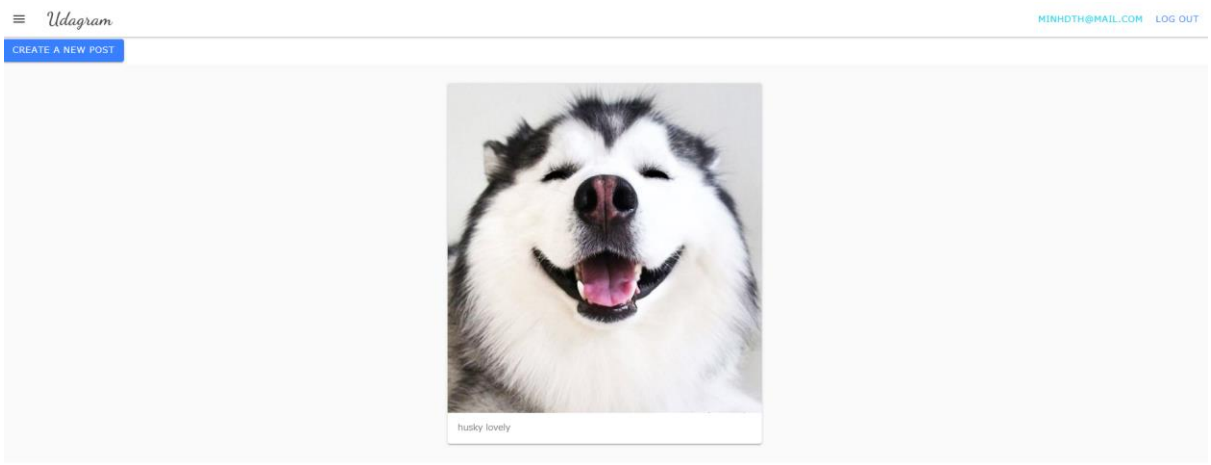


Build and run a container image using Docker:



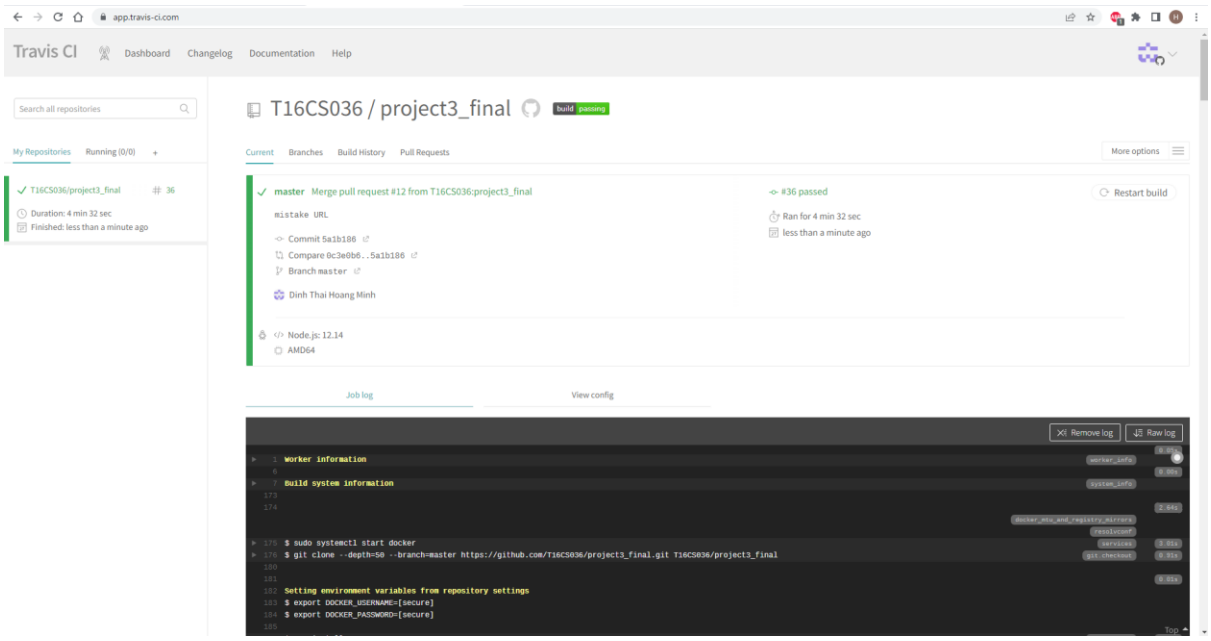


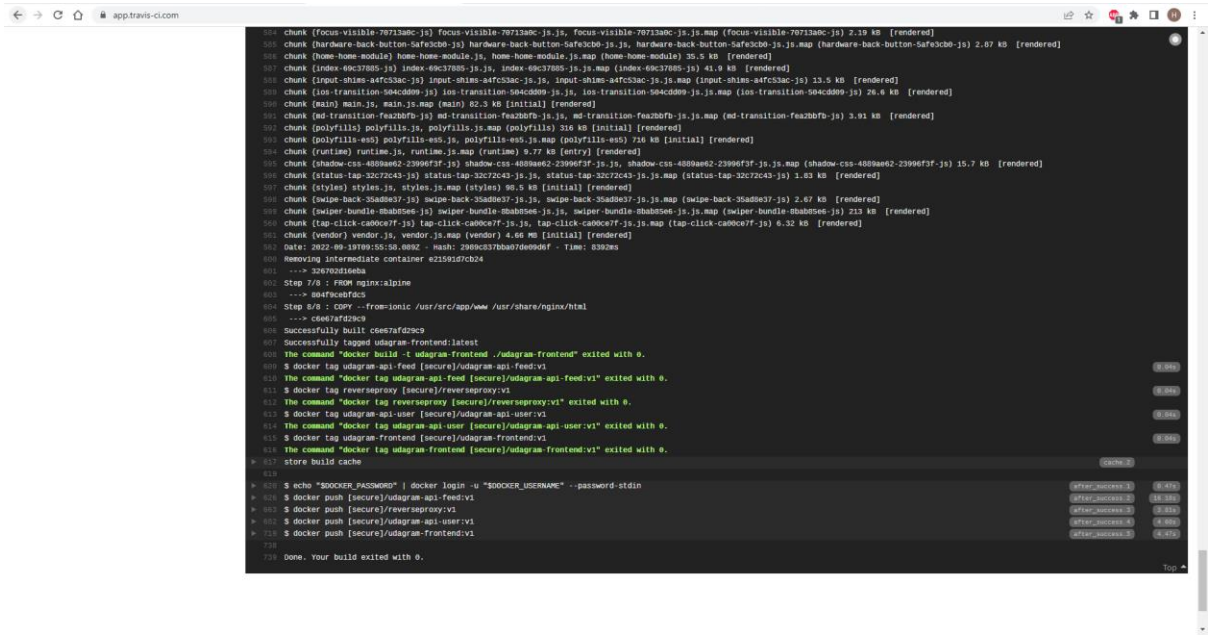
successful to run on docker local



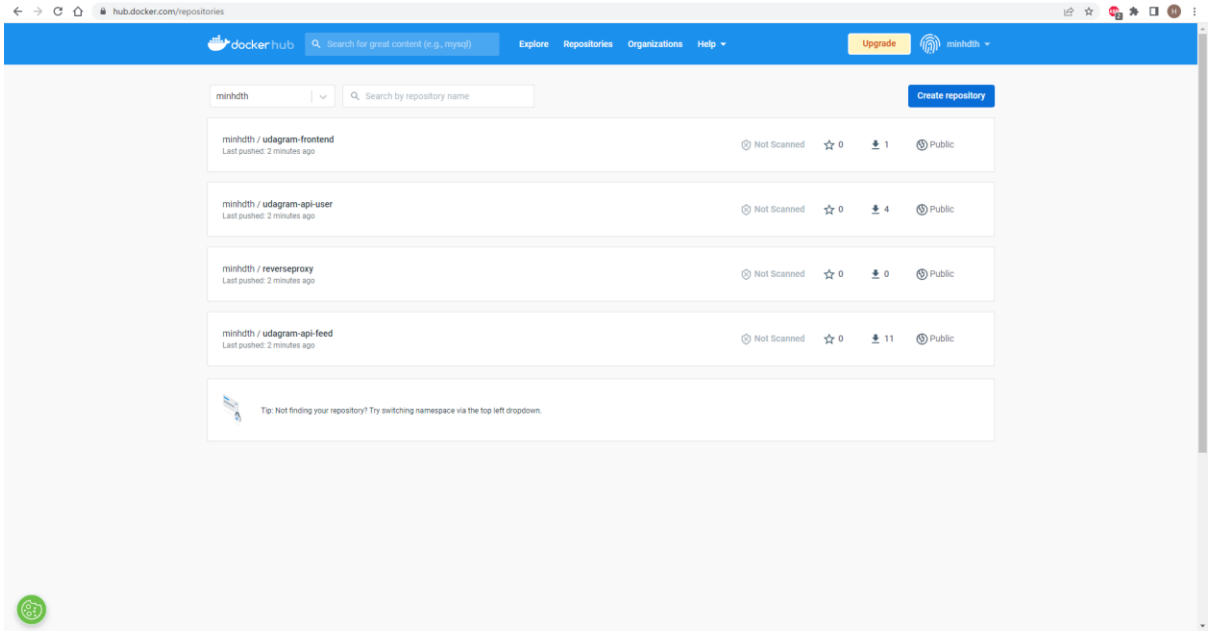
3. PartIII:

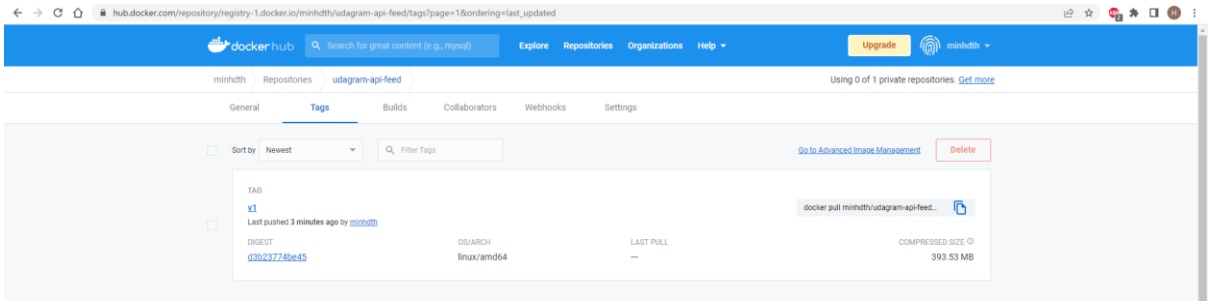
I success to run on travis ci at picture below:



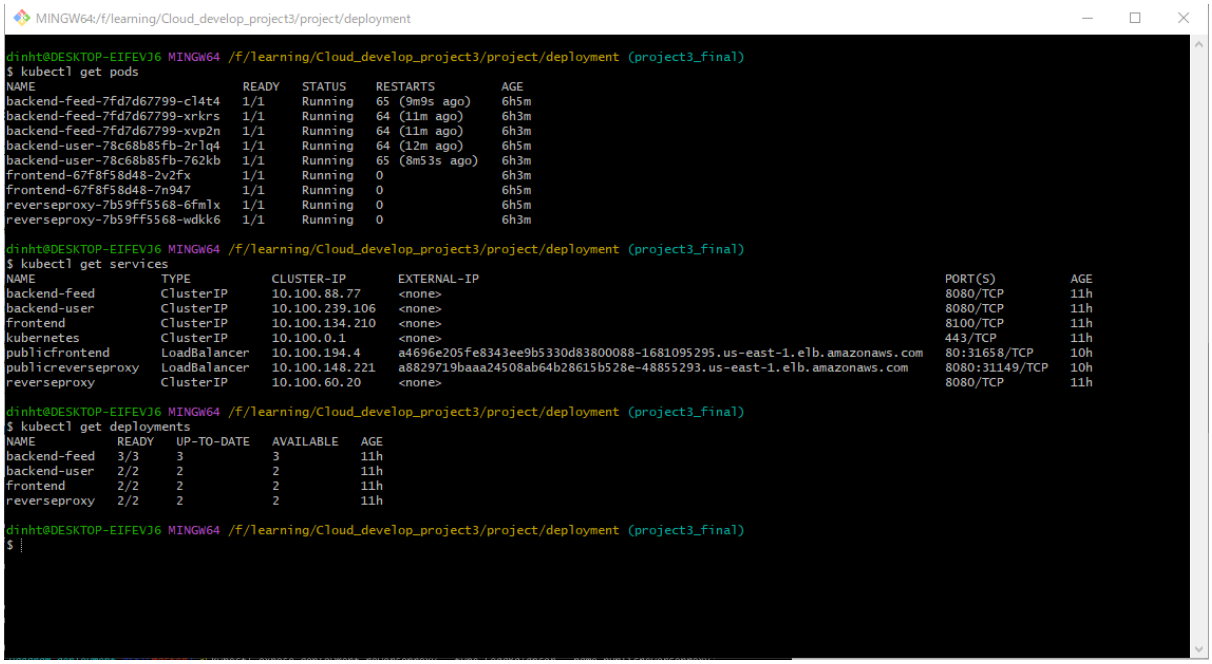


This is docker hub after success to push image on:





All pods, services, deployments information on EKS

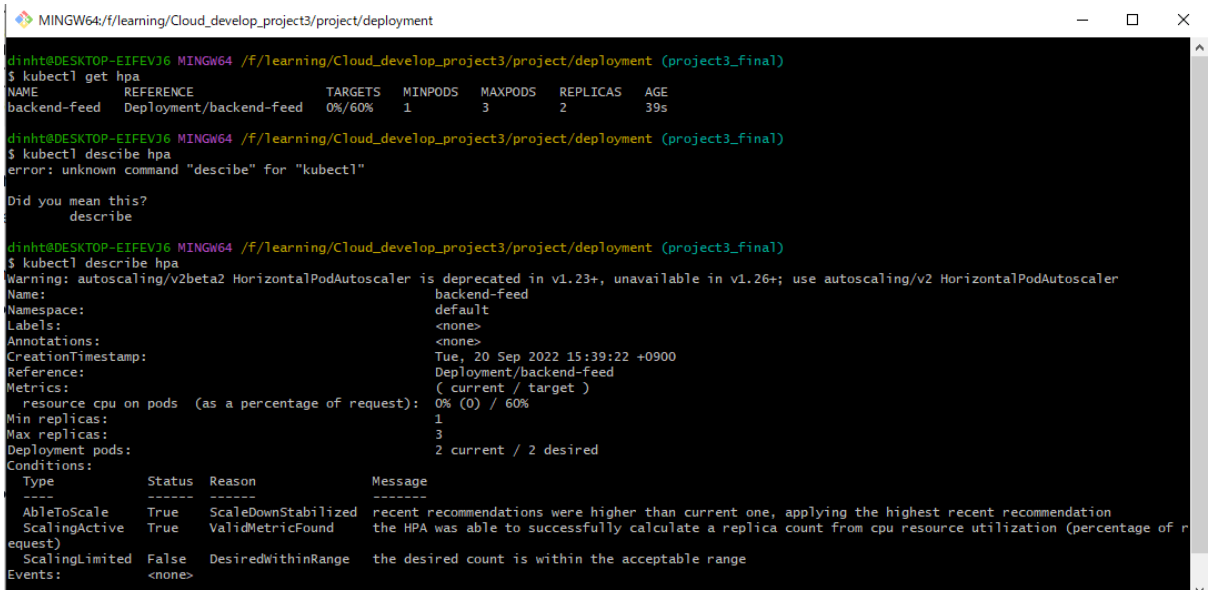


kubectl describe services doesn't include sensitive information:

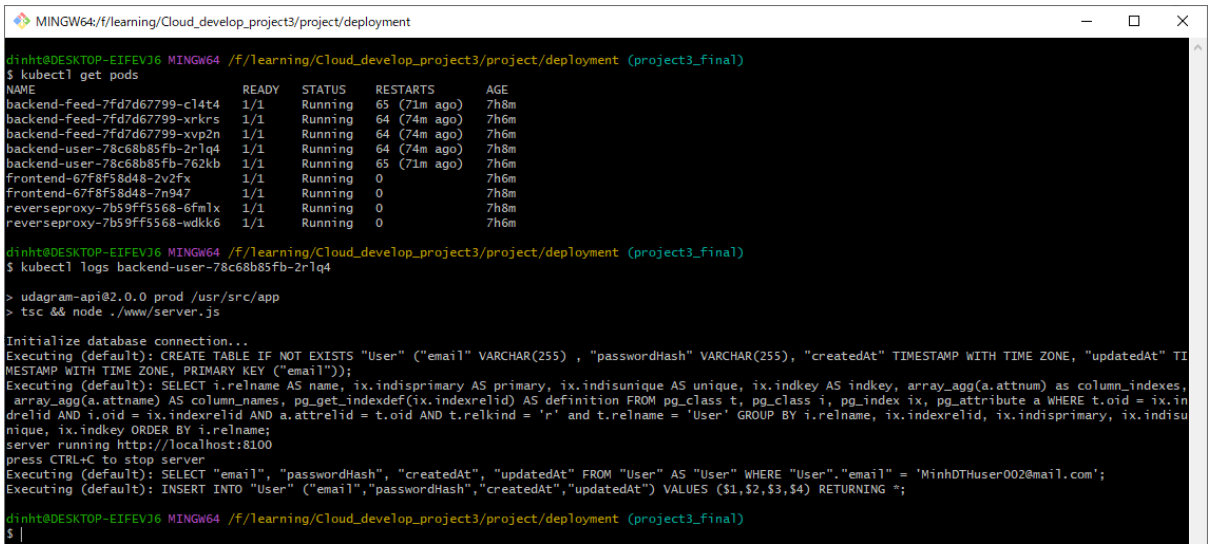
```
dinht@DESKTOP-EIFEVJ6 MINGW64 /f/learning/Cloud_develop_project3/project/deployment (project3_final)
$ kubectl describe services
Name:              backend-feed
Namespace:         default
Labels:            service=backend-feed
Annotations:       <none>
Selector:          service=backend-feed
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.100.88.77
IPs:               10.100.88.77
Port:              8080  8080/TCP
TargetPort:        8080/TCP
Endpoints:         172.31.6.102:8080,172.31.8.217:8080,172.31.8.60:8080
Session Affinity:  None
Events:            <none>


Name:              backend-user
Namespace:         default
Labels:            service=backend-user
Annotations:       <none>
Selector:          service=backend-user
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.100.239.106
IPs:               10.100.239.106
Port:              8080  8080/TCP
TargetPort:        8080/TCP
Endpoints:         172.31.1.124:8080,172.31.20.33:8080
Session Affinity:  None
Events:            <none>


Name:              frontend
Namespace:         default
Labels:            service=frontend
Annotations:       <none>
Selector:          service=frontend
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.100.134.210
IPs:               10.100.134.210
Port:              8100  8100/TCP
TargetPort:        80/TCP
Endpoints:         172.31.26.66:80,172.31.9.125:80
Session Affinity:  None
Events:            <none>


Name:              kubernetes
Namespace:         default
Labels:            component=apiserver
                   provider=kubernetes
Annotations:       <none>
Selector:          <none>
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.100.0.1
```

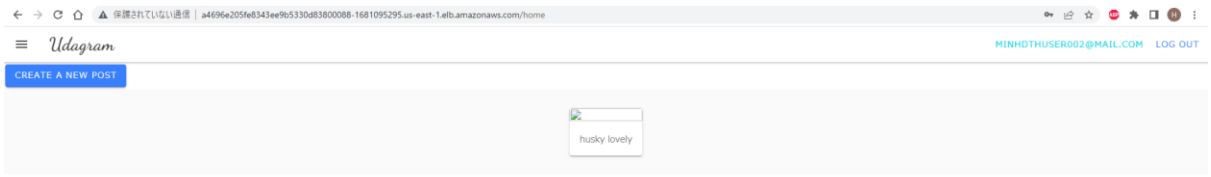
```
Name:              kubernetes
Namespace:         default
Labels:            component=apiserver
                   provider=kubernetes
Annotations:       <none>
Selector:          <none>
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.100.0.1
IPs:               10.100.0.1
Port:              https  443/TCP
TargetPort:        443/TCP
Endpoints:         172.31.4.222:443,172.31.47.7:443
Session Affinity:  None
Events:            <none>


Name:                     publicfrontend
Namespace:                default
Labels:                   service=frontend
Annotations:              <none>
Selector:                 service=frontend
Type:                     LoadBalancer
IP Family Policy:         SingleStack
IP Families:              IPv4
IP:                       10.100.194.4
IPs:                      10.100.194.4
LoadBalancer Ingress:     a4696e205fe8343ee9b5330d83800088-1681095295.us-east-1.elb.amazonaws.com
Port:                     <unset>  80/TCP
TargetPort:               80/TCP
NodePort:                 <unset>  31658/TCP
Endpoints:                172.31.26.66:80,172.31.9.125:80
Session Affinity:         None
External Traffic Policy:  Cluster
Events:                   <none>


Name:                     publicreverseproxy
Namespace:                default
Labels:                   service=reverseproxy
Annotations:              <none>
Selector:                 service=reverseproxy
Type:                     LoadBalancer
IP Family Policy:         SingleStack
IP Families:              IPv4
IP:                       10.100.148.221
IPs:                      10.100.148.221
LoadBalancer Ingress:     a8829719baaa24508ab64b28615b528e-48855293.us-east-1.elb.amazonaws.com
Port:                     <unset>  8080/TCP
TargetPort:               8080/TCP
NodePort:                 <unset>  31149/TCP
Endpoints:                172.31.22.251:8080,172.31.7.87:8080
Session Affinity:         None
External Traffic Policy:  Cluster
Events:                   <none>


Name:              reverseproxy
Namespace:         default
Labels:            service=reverseproxy
Annotations:       <none>
Selector:          service=reverseproxy
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.100.60.20
IPs:               10.100.60.20
Port:              8080  8080/TCP
TargetPort:        8080/TCP
```

kubectl describe hpa autoscaling successful



I register new User on system and this was my BE respone:





My github: https://github.com/T16CS036/project3_final.git

It has included everything! Even I shouldn't upload sensitive information! But because to improve

I work on the flow you guys give me! So, I attached everything on git!
Because of the cost of AWS, I will turndown service immediately.

Thank you so much for the lesson!!