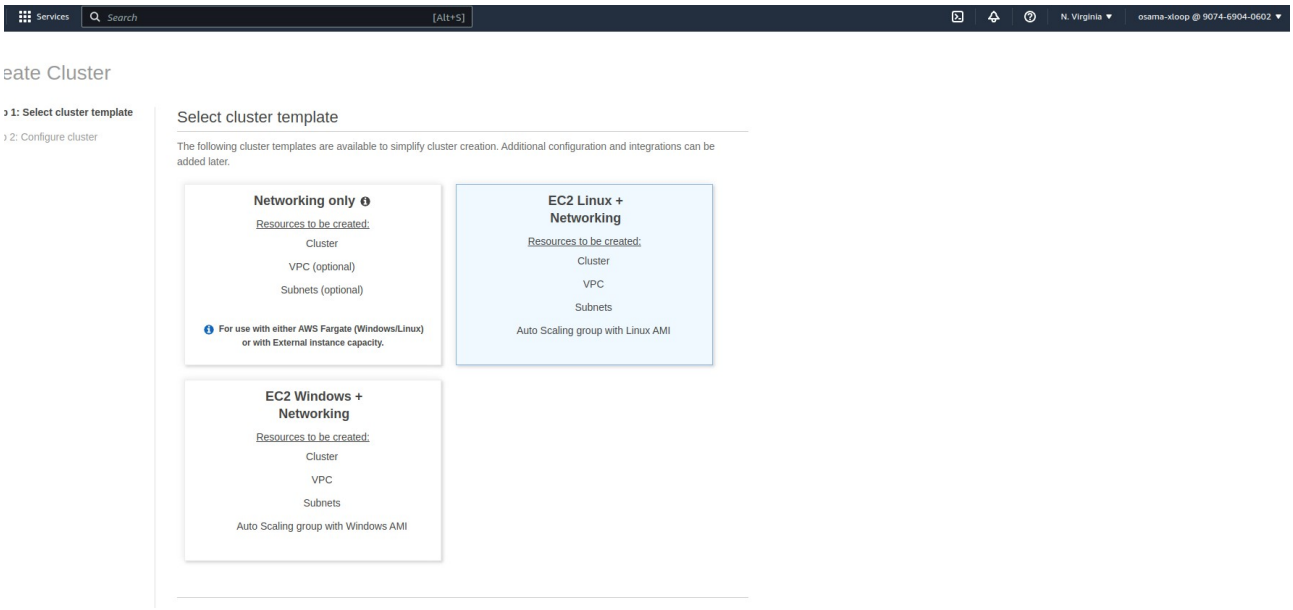
Name: Osama Abdul Razzak(2303.KHI.DEG.029)
Peer Name: Rahima Siddiqui(2303.KHI.DEG.030)
Peer Name: M Humza Moeen(2303.KHI.DEG.019)

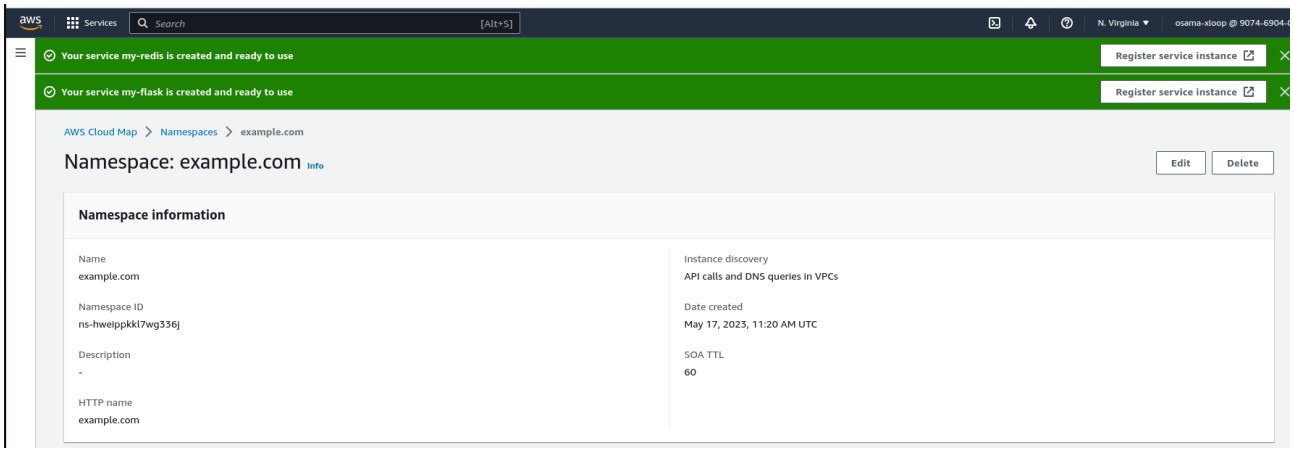
Assignment 4.5

Based on the solution from day 1 (/tasks/5_microservices_development/day_1_microservices/integrating_flask_redis/) add Redis as another ECS service and connect it with existing application. Incorporate results from function *get_and_increase_hit_count()* into the application and show the results on the main page.

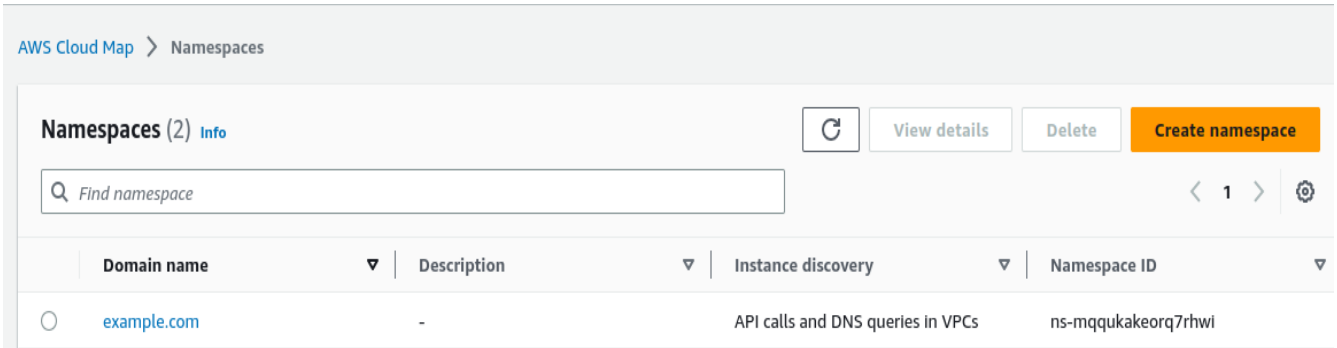
First, we create ECS cluster name ‘flaskapp’, and select following cluster template



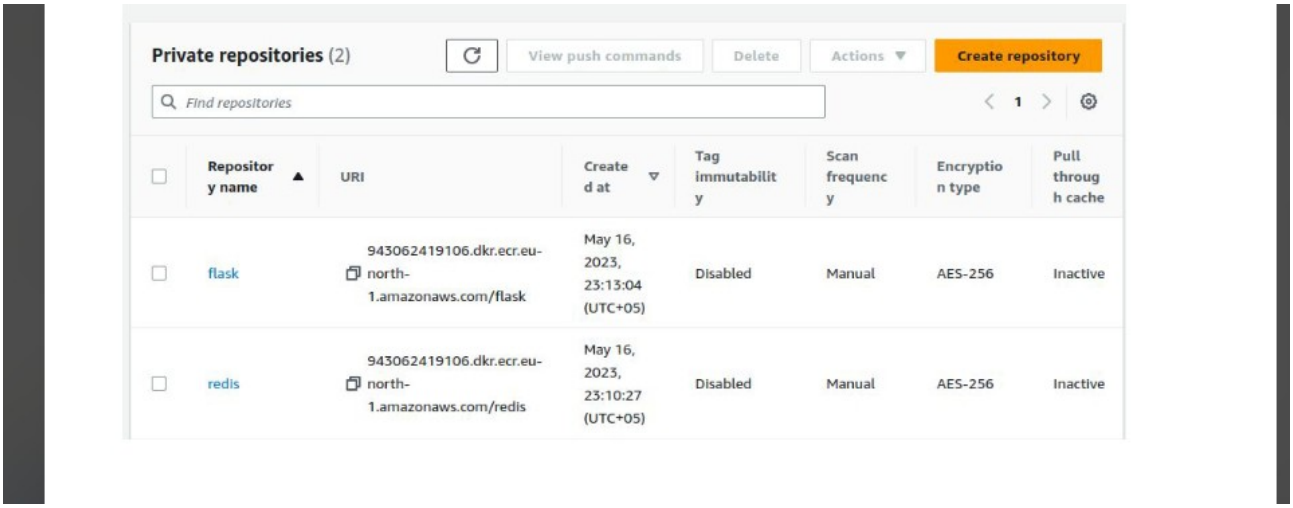
Then, In AWS cloud map we create Namespace: example.com



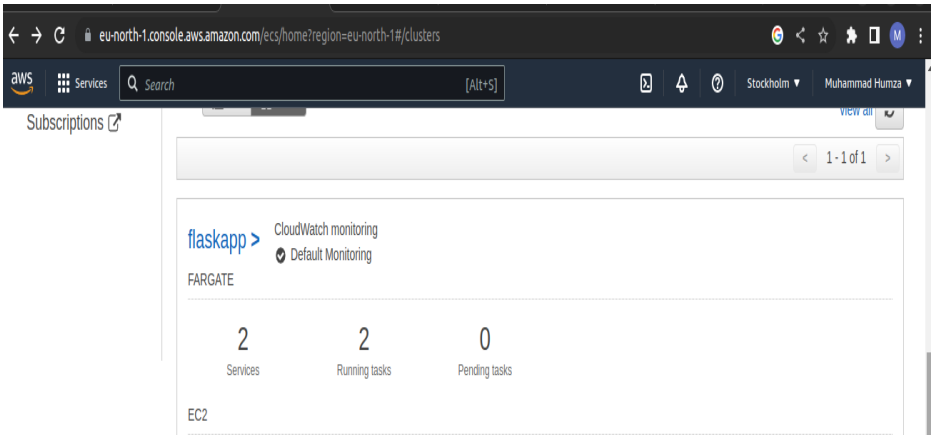
Name: Osama Abdul Razzak(2303.KHI.DEG.029)
Peer Name: Rahima Siddiqui(2303.KHI.DEG.030)
Peer Name: M Humza Moeen(2303.KHI.DEG.019)



In ECR we create two repositories flask and redis

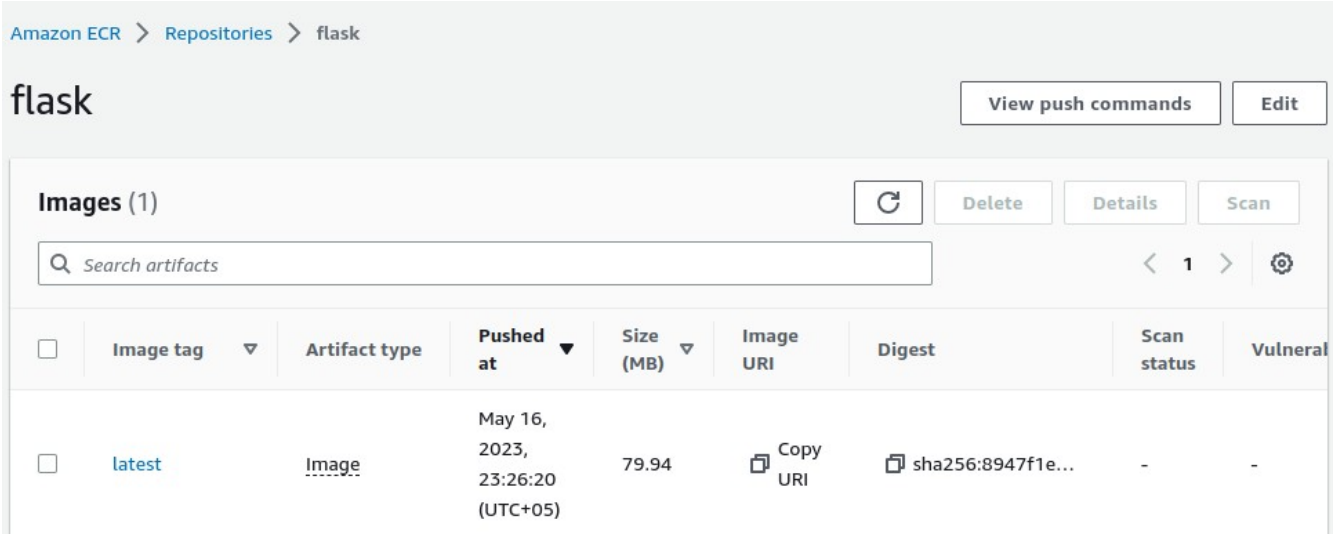


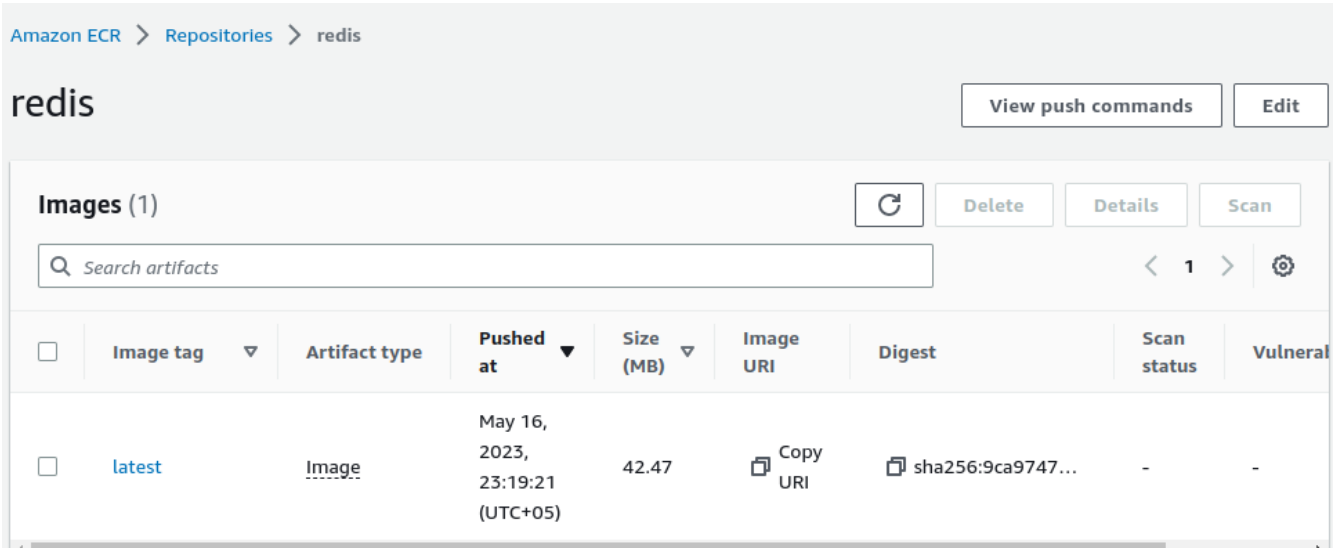
And here is our cluster with two services



And in that repo, we build the both and upload it in our repo

Name: Osama Abdul Razzak(2303.KHI.DEG.029)
Peer Name: Rahima Siddiqui(2303.KHI.DEG.030)
Peer Name: M Humza Moeen(2303.KHI.DEG.019)

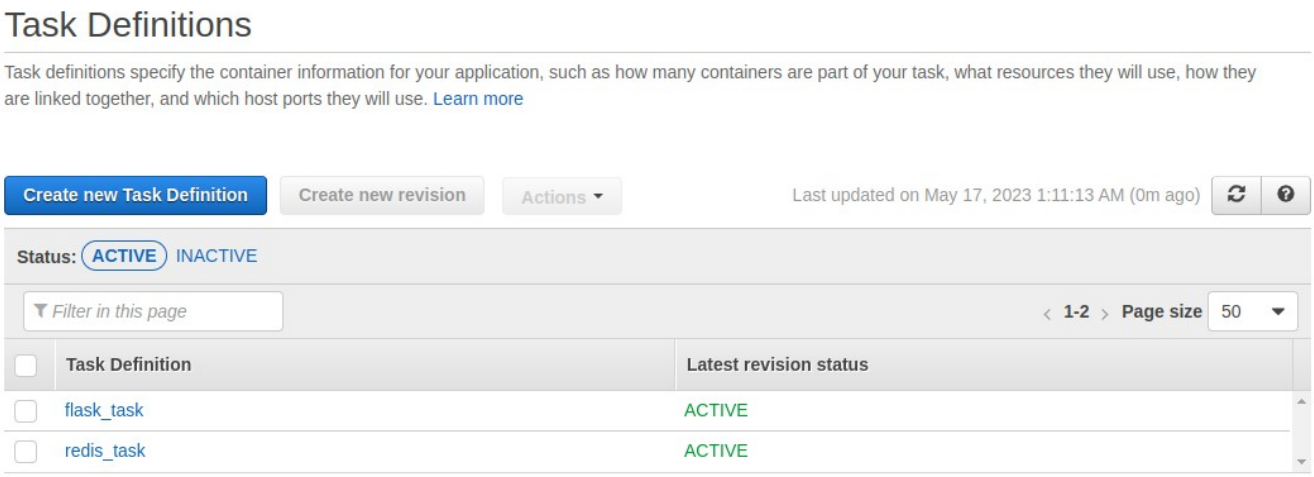




For both flask app and frontend, do the following:

From the ECS Console, navigate to `Task Definitions` and create new Fargate task definition

Name: Osama Abdul Razzak(2303.KHI.DEG.029)
Peer Name: Rahima Siddiqui(2303.KHI.DEG.030)
Peer Name: M Humza Moeen(2303.KHI.DEG.019)



Then open cluster ‘flaskapp’ and from Services choose your flask service
Navigate to Tasks and choose existing task
Find the Elastic Network (ENI ID) attached to the task, and click it
From the Network Interfaces list, choose the correct one, and open it
Find Public IPv4 DNS for the ENI, copy it and paste it in the browser address bar, adding the port number 5000 in the end
e.g. ec2-13-53-84-145.eu-north-1.compute.amazonaws.com:5000

Here is aap.py and Docker file SS,

For flask_app service:

Edit newly created security group: add inbound rule of type `Custom TCP` with port range 5000

For redis service:

Edit newly created security group: add inbound rule of type `Custom TCP` with port range 6379

Name: Osama Abdul Razzak(2303.KHI.DEG.029)
Peer Name: Rahima Siddiqui(2303.KHI.DEG.030)
Peer Name: M Humza Moeen(2303.KHI.DEG.019)