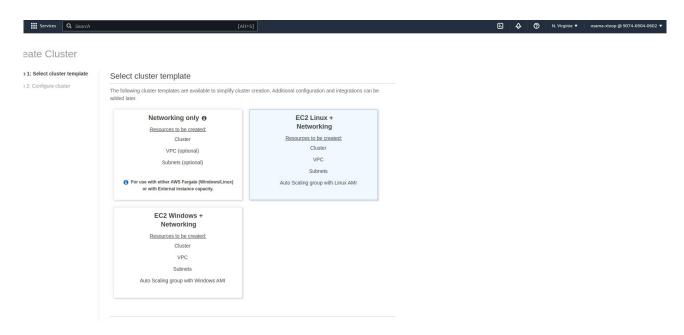
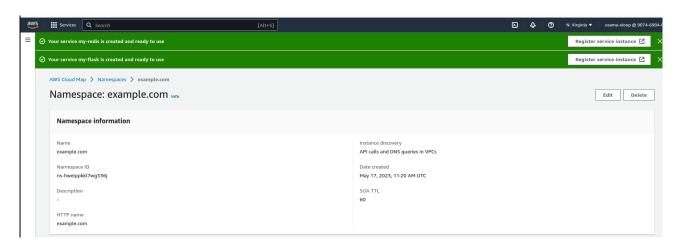
## **Assignment 4.5**

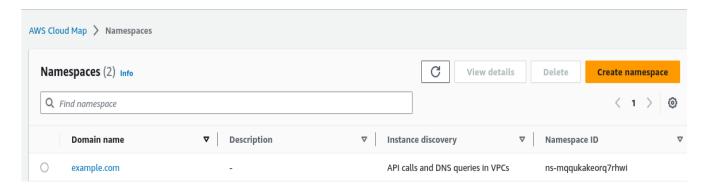
Based on the solution from day 1 (/tasks/5\_microservices\_development/day\_1\_microservices/integrating\_flask\_redis/) add Redis as another ECS service and connect it with existing application. Incorporate results from function <code>get\_and\_increase\_hit\_count()</code> into the application and show the results on the main page.

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

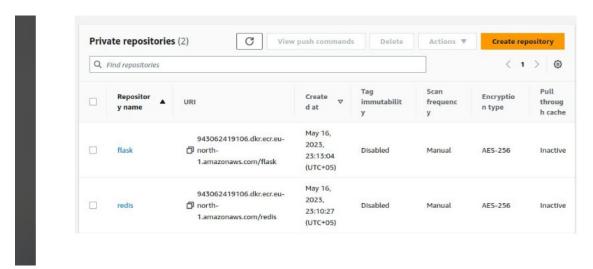


Then, In AWS cloud map we create Namespace: example.com

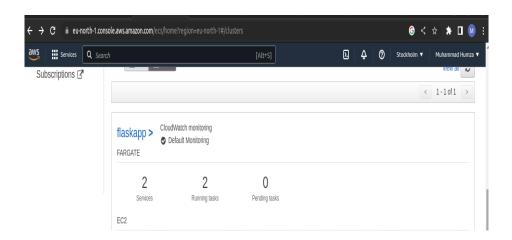




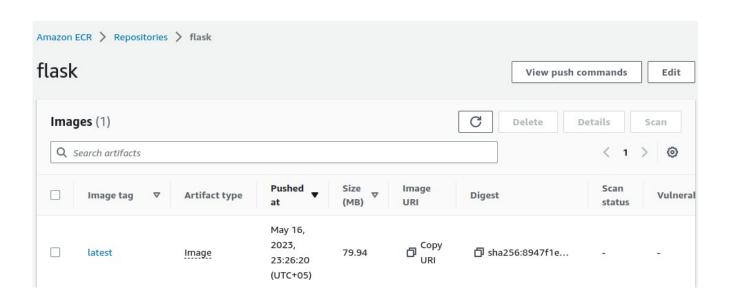
In ECR we create two repositories flask and redis

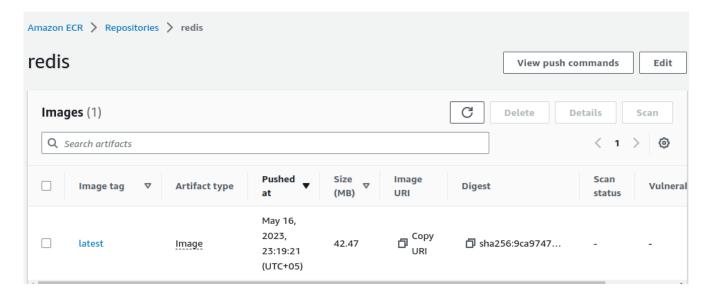


And here is our cluster with two services



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



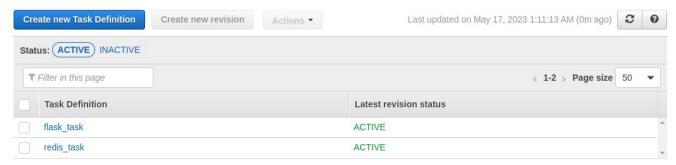


For both flask app and frontend, do the following:

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

## Task Definitions

Task definitions specify the container information for your application, such as how many containers are part of your task, what resources they will use, how they are linked together, and which host ports they will use. Learn more



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

