Data Engineering Cohort 1

Module 4

Assignment 4.5

Deploy Redis Service

Member #1

Name: Muhammad Humza

Roll Number: 2211-018-KHI-DEG

Member #2

Name: Muhammad Ovais

Roll Number: 2211-023-KHI-DEG

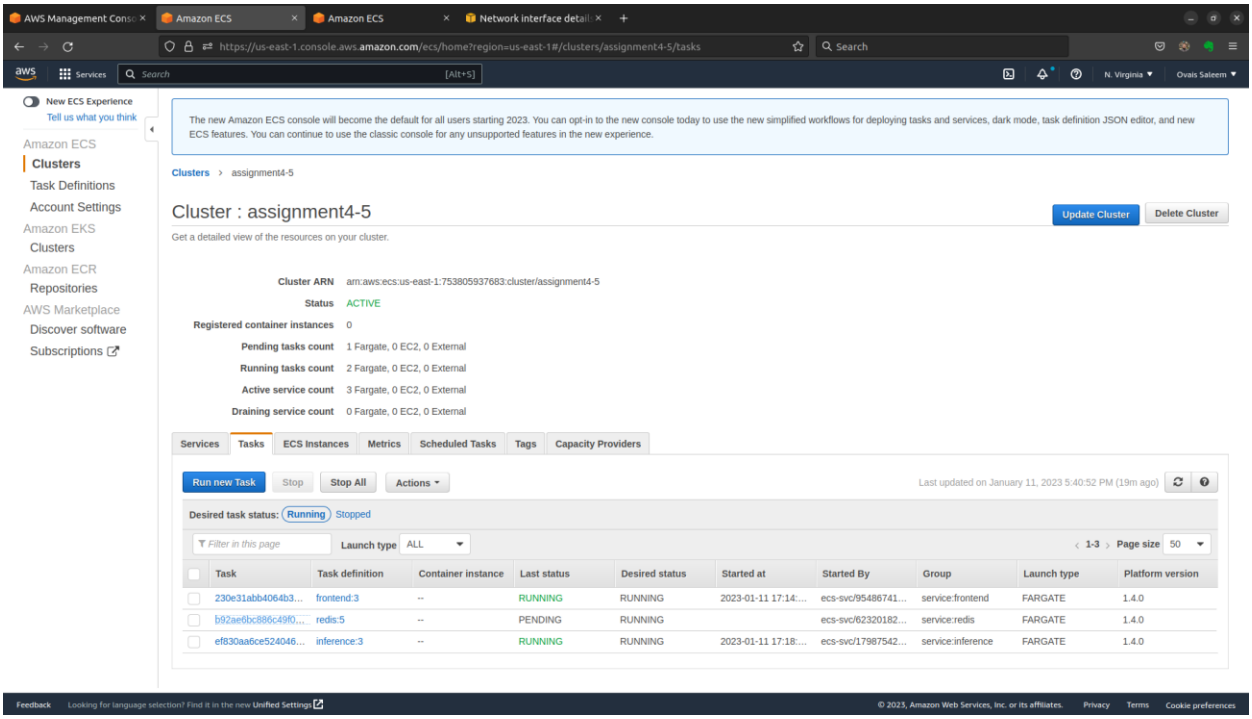
Task

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

Solution

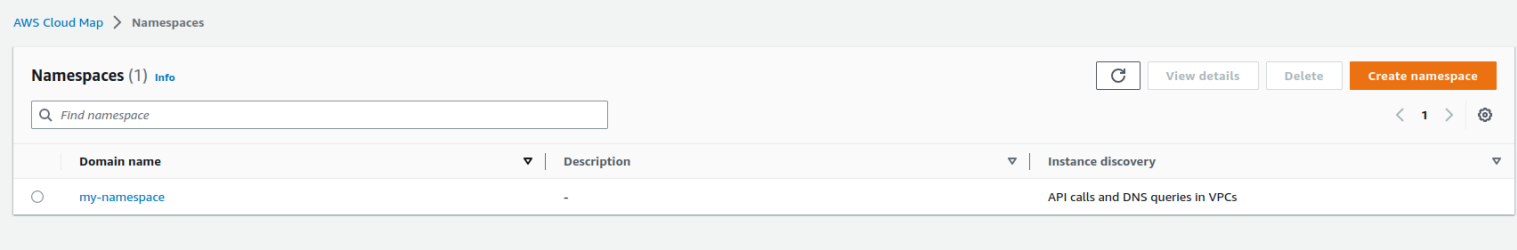
Step #1 Creating a Cluster

In this step we created a cluster name assignment4-5



Step #2 Creating a namespace

In this step we created a namespace named my_namespace



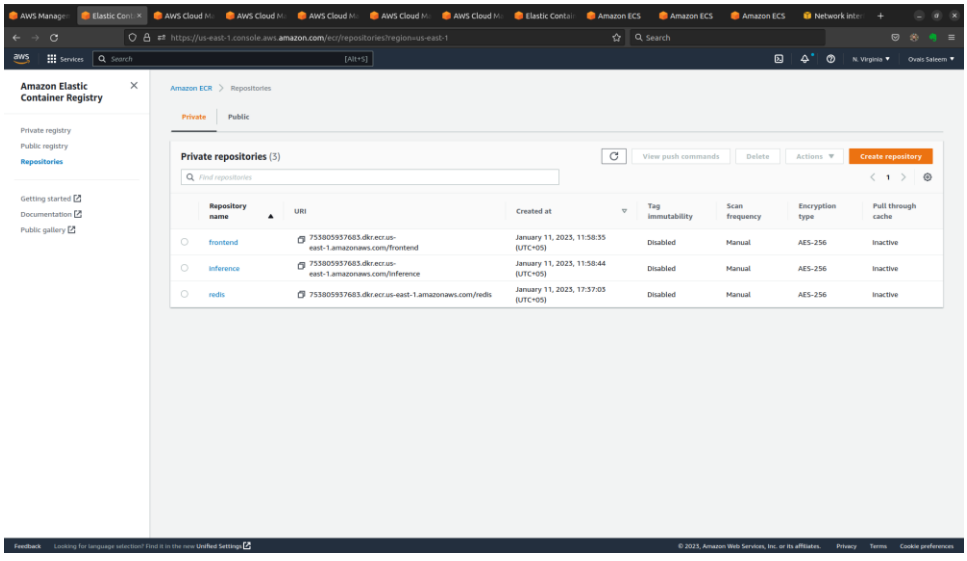
Step #3 Creating namespace services

After creating the namespace, we created 3 services.

You can see them in the namespace.pdf document.

Step #4 Creating Repositories

After creating the namespace services, we pushed the images.



Step #5 Pushing the Images

After creating the repositories, we pushed the images.

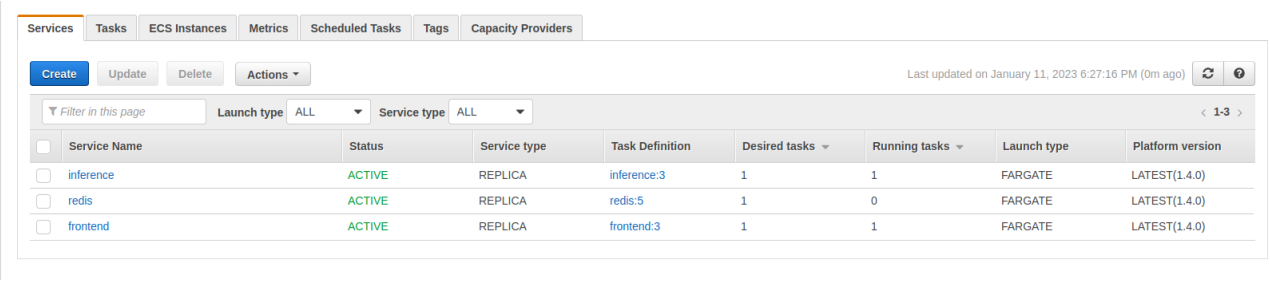
Step #6 Creating Task Definition

After pushing the images, we created task definitions for frontend, inference and redis.

You can find them in their respected pdf files located in the .zip file

Step #7 Creating ECS Service in Cluster Menu

After creating task definition, we created 3 ECS service in Cluster menu using Fargate launch type.

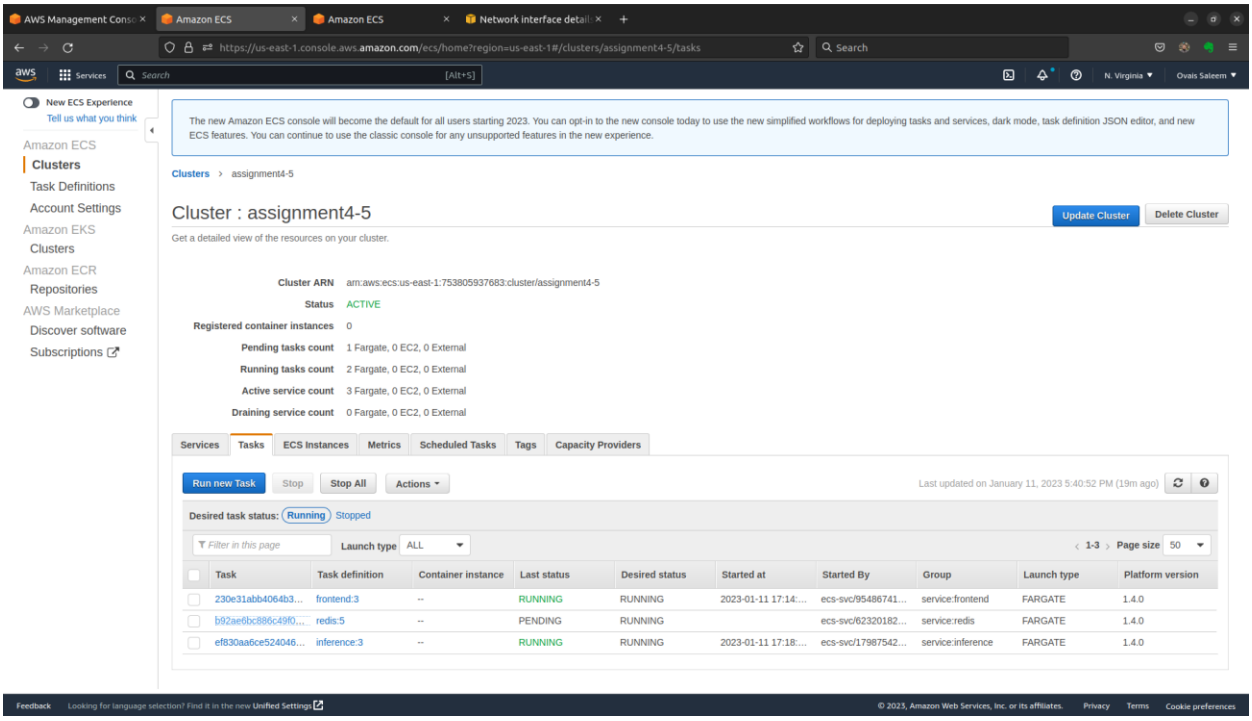


Step #8 Navigating To Task

After creating 3 ECS service in Cluster menu we navigated to task tab.

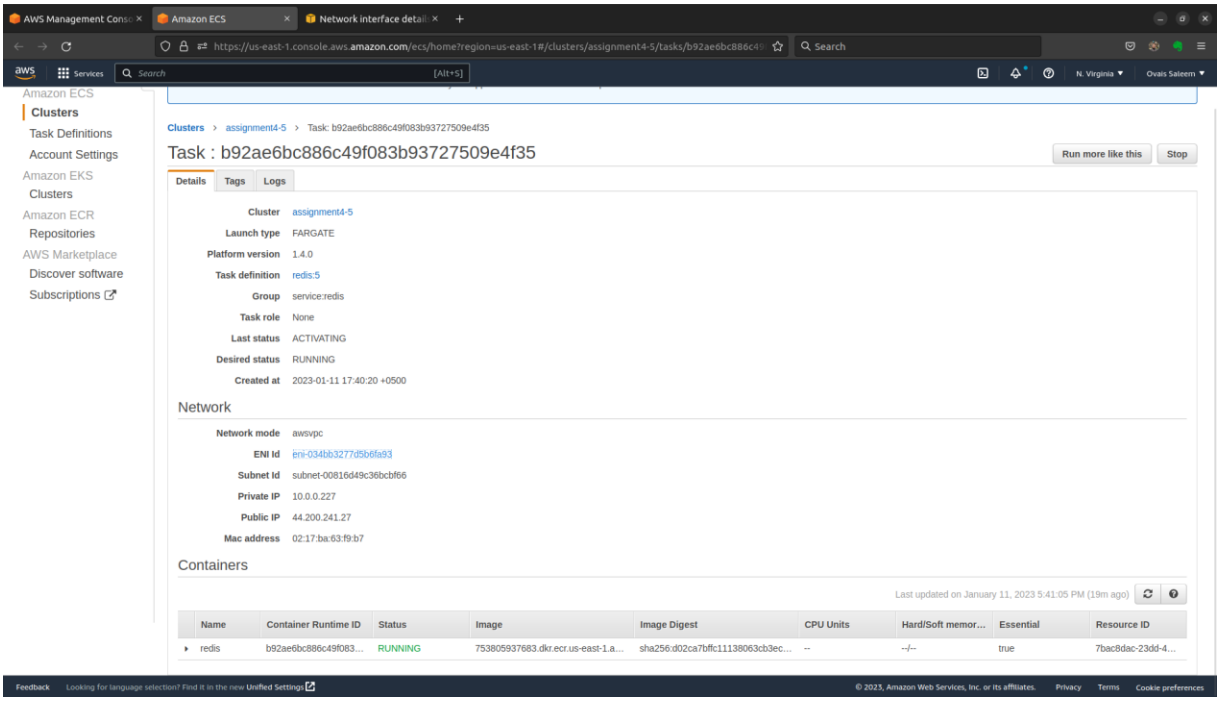
Step #9 Selecting Existing Task

In the task tab we selected the existing task tab.



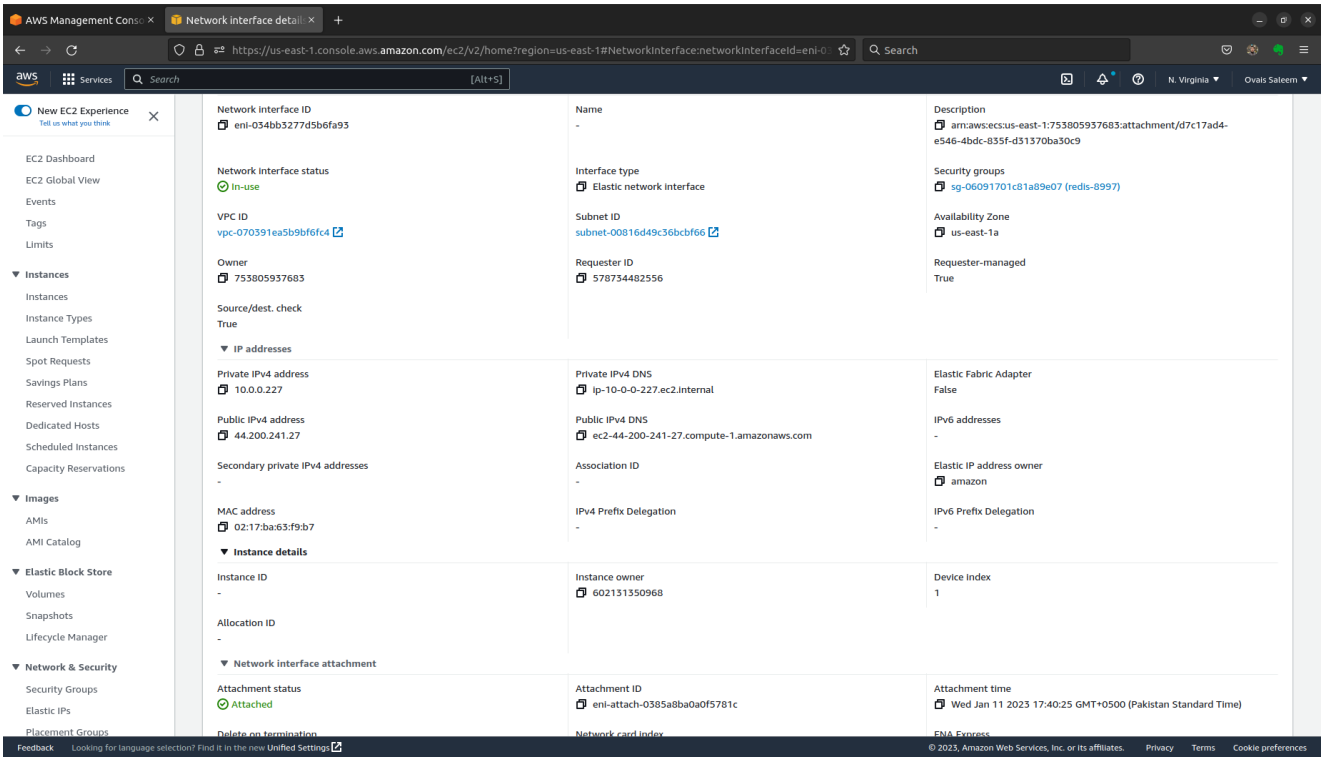
Step #10 Selecting ENI ID

After entering the existing task, we selected the ENI ID



Step #11 Selecting Public IPV4 DNS

After selecting the ENI ID we copied the IPV4 DNS and pasted it in browser amd adding the port number 5000 in the end.



Step #12 Testing the Service

After running the page, we checked if the page is responding by uploading an image and seeing if it's shown in the browser.