**Exercise22**

**ECS Cluster and Service**

1. Search for ECS
2. Click Create Cluster, Cluster Name: MyCluster, check both, AWS Fargate and Amazon EC2 instances, (keep all the default settings including the VPC), click Create

Once the Cluster is created, scroll down, you will see no container instances

1. In the EC2 dashboard, click Auto Scaling Groups (from the left panel), select the auto scaling group, click Edit (under Details tab), Desired capacity: 1, click Update

Go back to ECS, now you will see a new container instance Take a snapshot (with your IAM username to confirm this step) [1point]

1. In ECS, click Task definitions (from the left panel), click Create new task definition (select Create new task definition), Task definition family: nginxdemos-hello, (do not check Amazon EC2 instances), CPU: .5 vCPU, Memory: 1GB, Container-1 Name: nginxdemos-hello, Image URI: nginxdemos/hello, click Create
2. Go to Clusters, select MyCluster, click Create (under Services), select Launch type, Task definition family: nginxdemos-hello, Service name: nginxdemos-hello, Create a new security group-> ame: nginxdemos-hello, description: SG for Nginx, allow HTTP traffic from anywhere, Load balancer type: Application Load Balancer, Load balancer name: MyALBForECS, Target group name: tg-nginxdemos-hello, click Create

You should see the new service is Active and Tasks (1 Desired) Take a snapshot (with your IAM username to confirm this step) [1point]

Open the target group in a new tab. You will see the link to the load balancer. Open it in another tab. Copy paste the DNS name in a new tab. You will see the Nginx welcome page. (The Server address will match with that of the registered target) Take a snapshot (with your IAM username to confirm this step) [1point]

1. In the nginxdemos-hello service, click Update service, Desired tasks: 3, click Update.

Go to the Tasks tab and wait for all the tasks to be in the running state

Go back to the Nginx tab and check the Auto Refresh box. You will see the server address will change and show theIP addresses of each of the three tasks. Take snapshot**s** (with your IAM username to confirm this step) [2point]

1. **Cleanup:**

Delete Auto scaling group, Load balancer, Target group, Cluster

Source: https://www.stephanemaarek.com/