Module 8: Container Management Tools

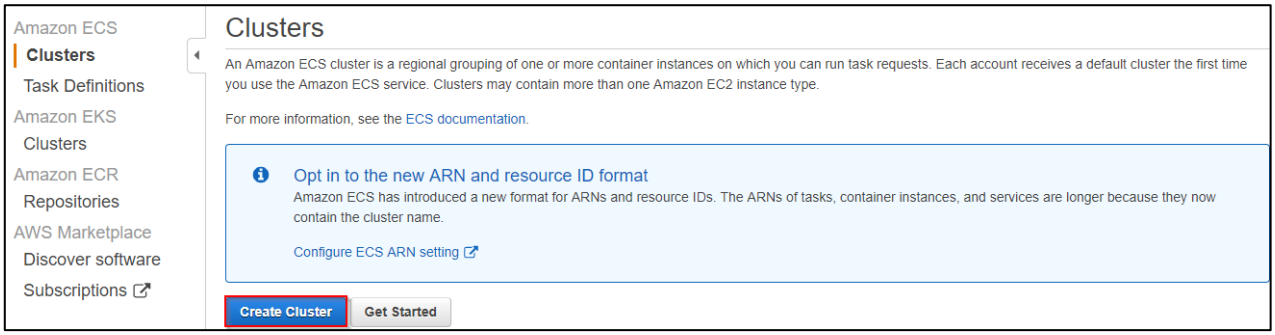
Demo Document 2

edureka!

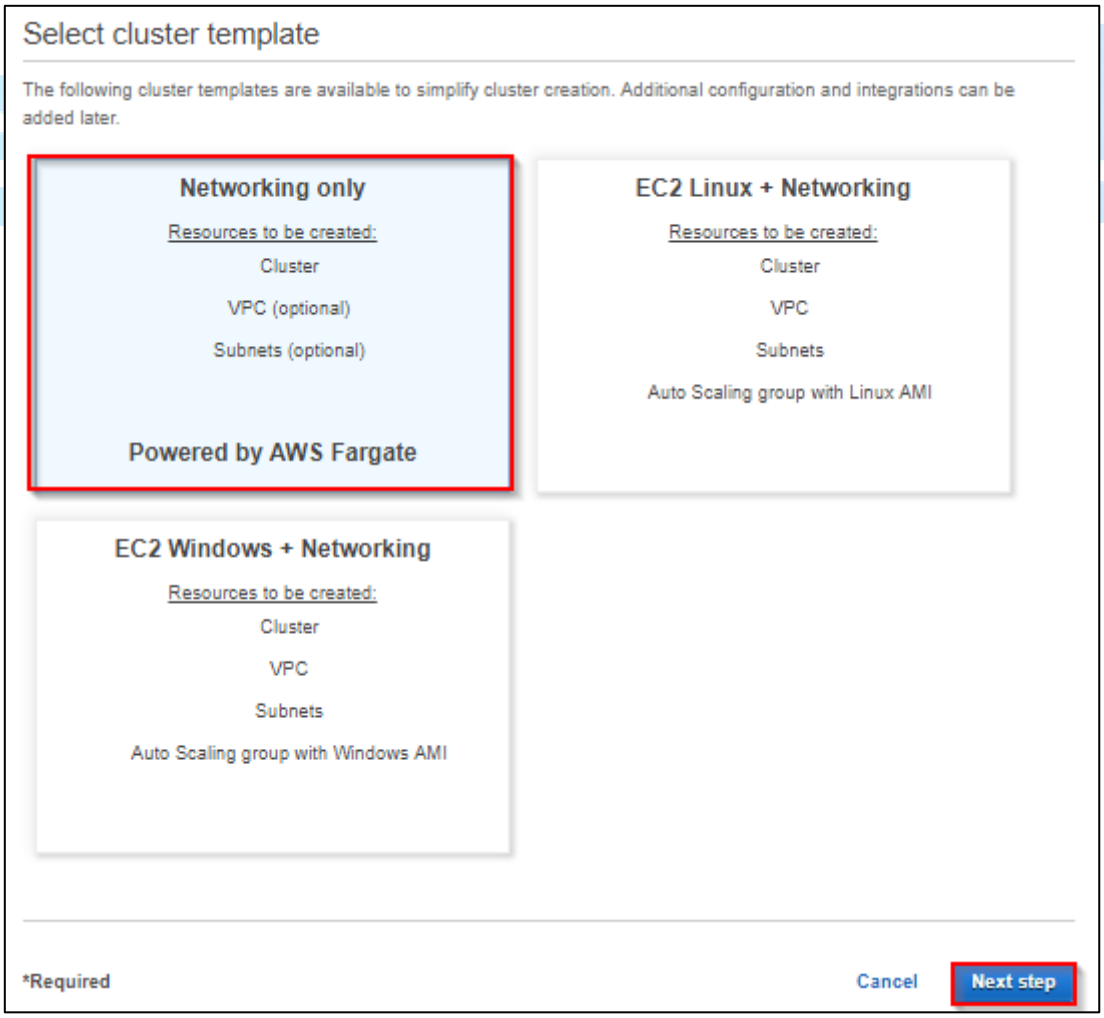
To host a website inside ECS using Fargate launch type

Step 1: Create a Cluster

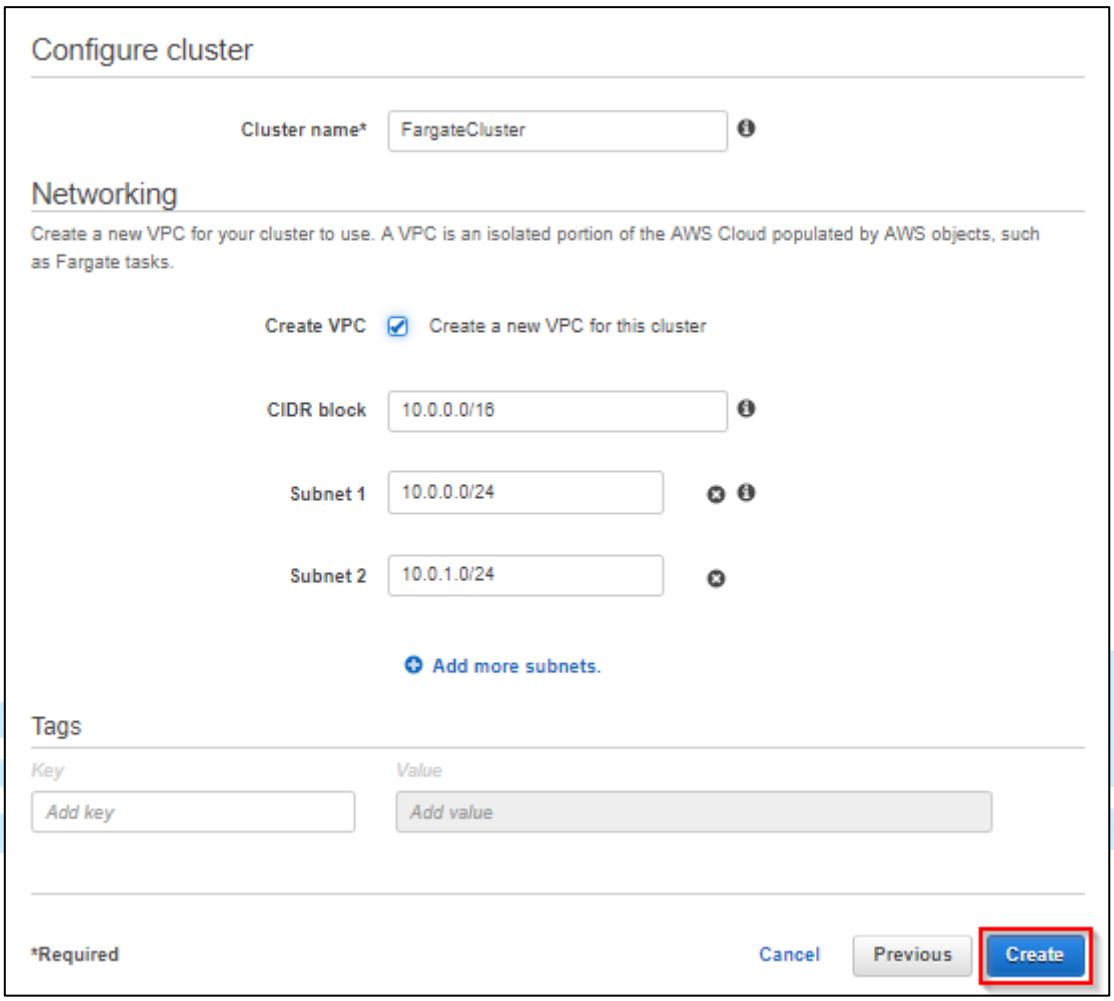
- Navigate to ECS service in your Console
- In the navigation panel, Select cluster
- Then, Click on Cluster



- Select the Fargate Launch type and click on next

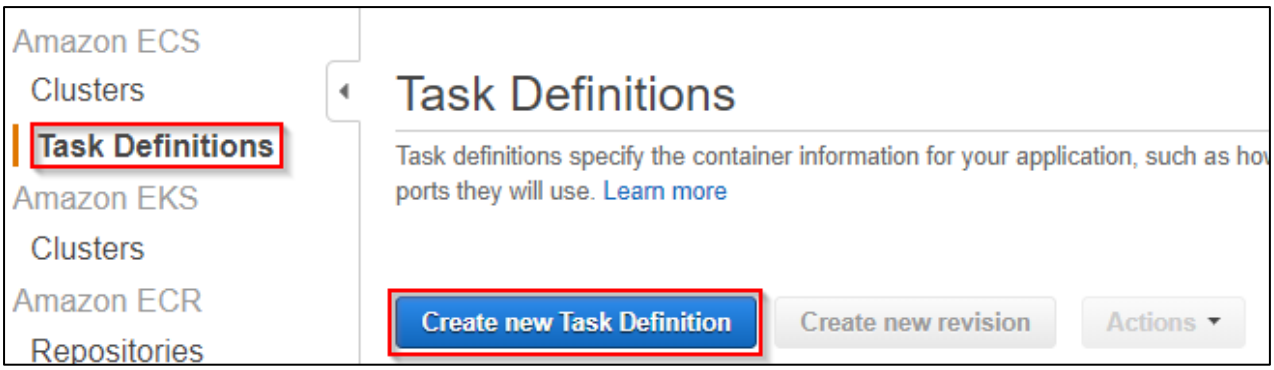


- Give a name for your cluster
- In networking, Click on New VPC
- Then, Click on create to create the cluster



Step 2: Create a Task Definition

- In the navigation panel, now select Task Definition
- Then, click on create Task Definition



- Select the launch Type to be Fargate and click on next
- At the Bottom of the page, click on configure through JSON and type the below code

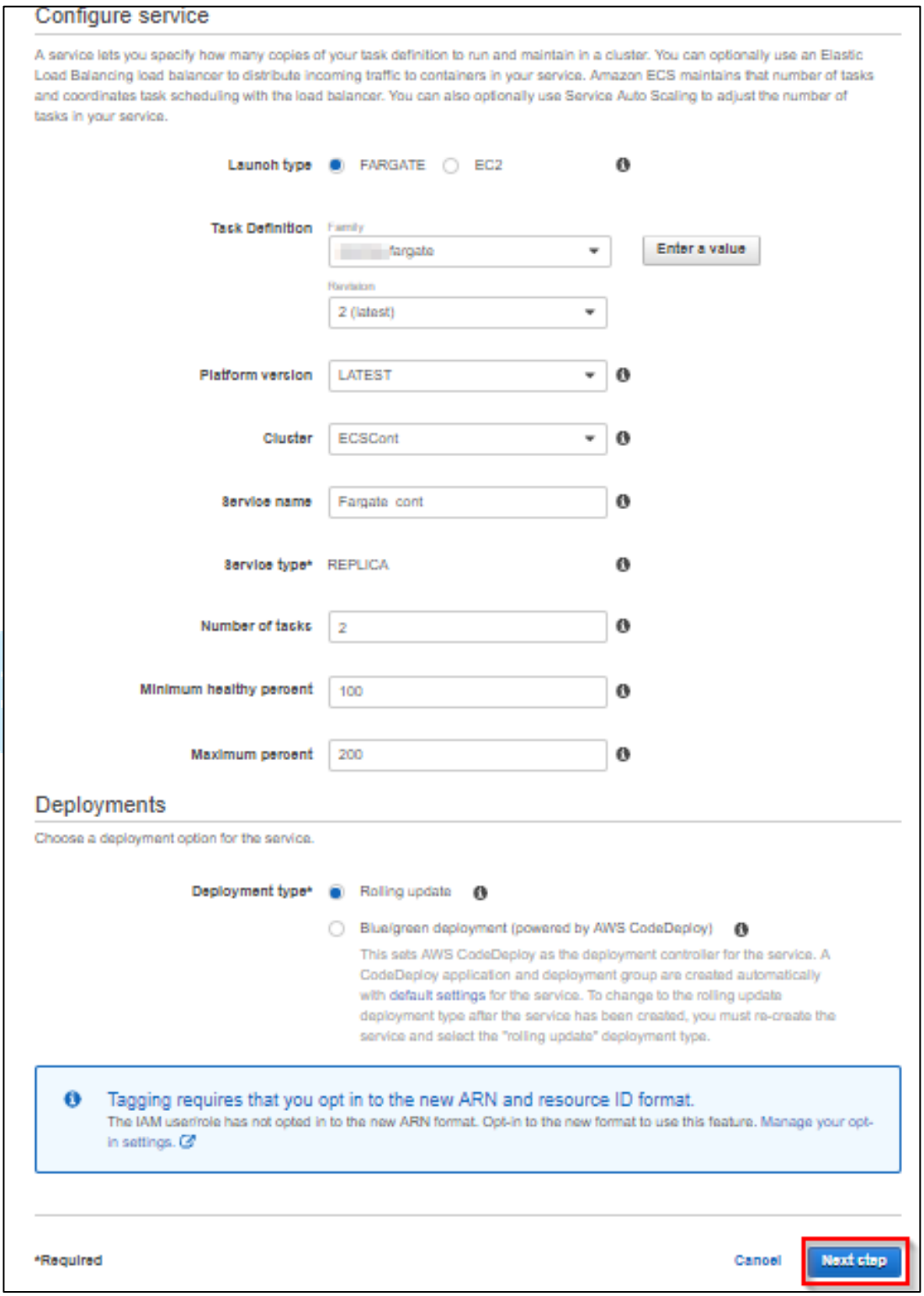
```
{
    "family": "fargate",
    "networkMode": "awsvpc",
    "containerDefinitions": [
        {
            "name": "fargate-app",
            "image": "httpd:2.4",
            "portMappings": [
                {
                    "containerPort": 80,
                    "hostPort": 80,
                    "protocol": "tcp"
                }
            ],
            "essential": true,
            "entryPoint": [
                "sh",
             "-c"
            ],
            "command": [
                "/bin/sh -c \"echo '<html> <head> <title>Amazon ECS Sample
App</title> <style>body {margin-top: 40px; background-color: #333;} </style>
</head><body> <div style=color:white;text-align:center> <h1>Amazon ECS
Sample App</h1> <h2>Congratulations!</h2> <p>Your application is now running
on a container in Amazon ECS.</p> </div></body></html>' >
/usr/local/apache2/htdocs/index.html && httpd-foreground\""
            ]
        }
    ],
    "requiresCompatibilities": [
        "FARGATE"
    ],
    "cpu": "256",
    "memory": "512"
}
```

- Click on Save
- Then click on create, to create the task definition

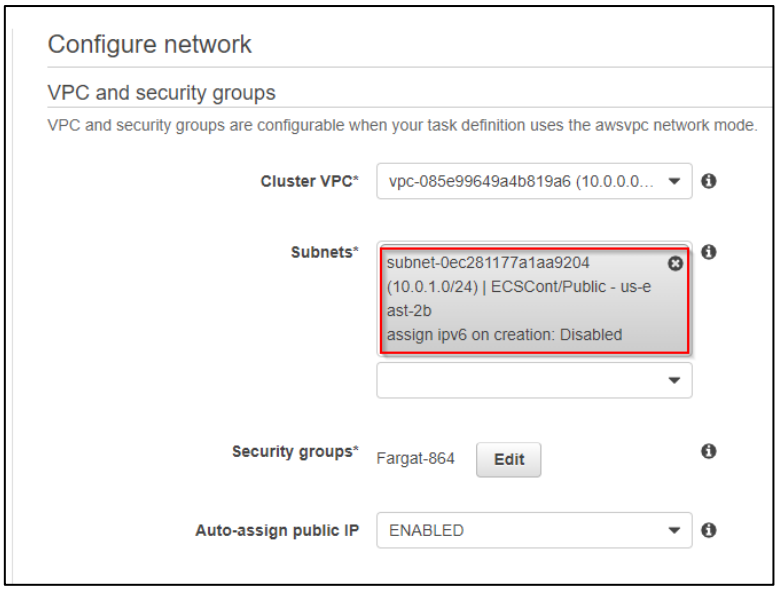
Step 3: Create a Service

- Select the launch type to be Fargate
- Select the Cluster name
- Give the Service name
- Give the No of Task to be 2

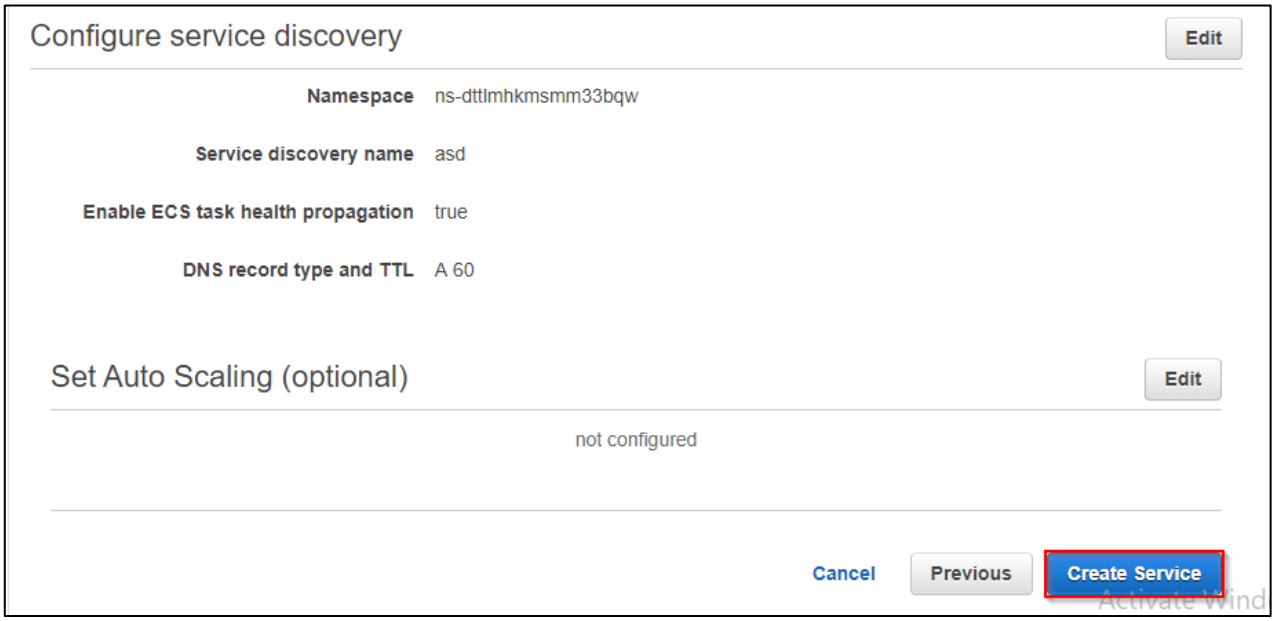
- Specify the Minimum health and Maximum health Percentage
- Click on Next Step



- While configuring Network, Choose a Subnet

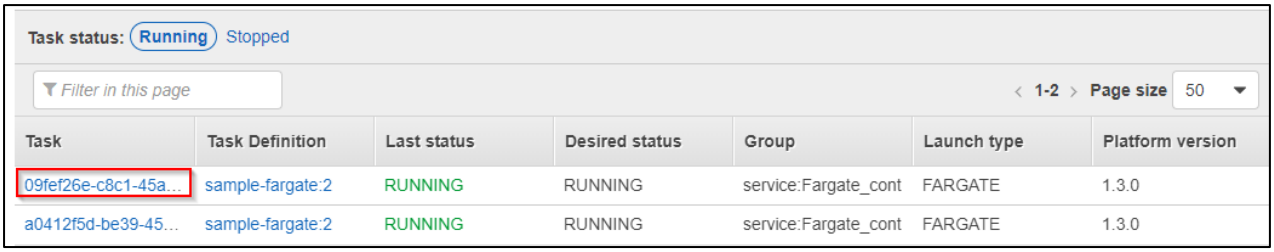


- Click on next step
- In Set Autoscaling, Click on next
- Finally review it and click on create service

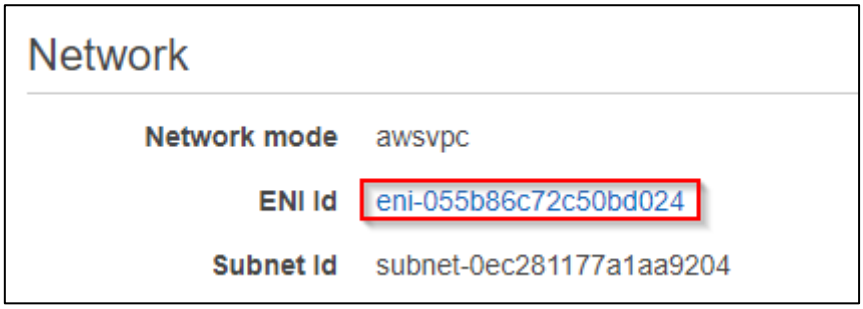


Step 4: Test your application

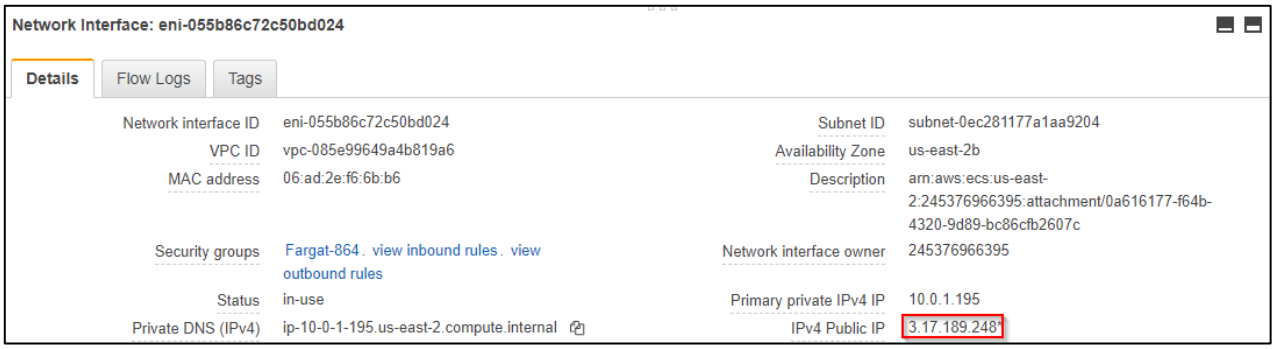
- Inside your service, if you click on task you can see your task running
- Click on the Task ID to see the details



- In Network, click on Elastic Network Interface (ENI)



- Which would get you directed towards the ENI details from which you can get the public IP



- Now, if you type that Public IP in the default browser, then you can see the website