

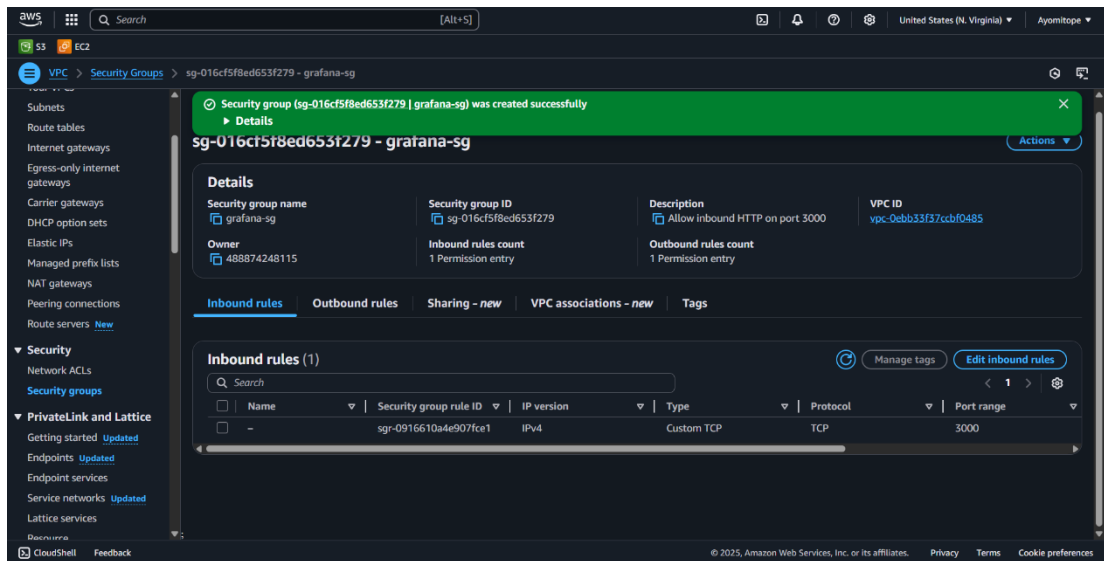
Weekly Tasks		
	Description	Deliverable
Week 5	<p>For Week 5, your task is to deploy Grafana using Amazon ECS with Fargate. Grafana is a popular open-source dashboard tool that runs on port 3000. You'll use the official Docker image <i>grafana/grafana</i>, create a task definition that exposes port 3000, and run it in a public subnet. Ensure your security group allows inbound traffic on port 3000.</p> <p>Once the service/task is running, open http://<PUBLIC-IP>:3000 in your browser.</p>	<p>Submit screenshots showing your ECS cluster and running service, the task definition with the <i>grafana/grafana</i> image, and the security group rule allowing port 3000 access. Finally, include a screenshot of the Grafana login page in your browser</p> <p>Grafana's default login credentials:</p> <ul style="list-style-type: none"> • Username: admin • Password: admin

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WEEK 5

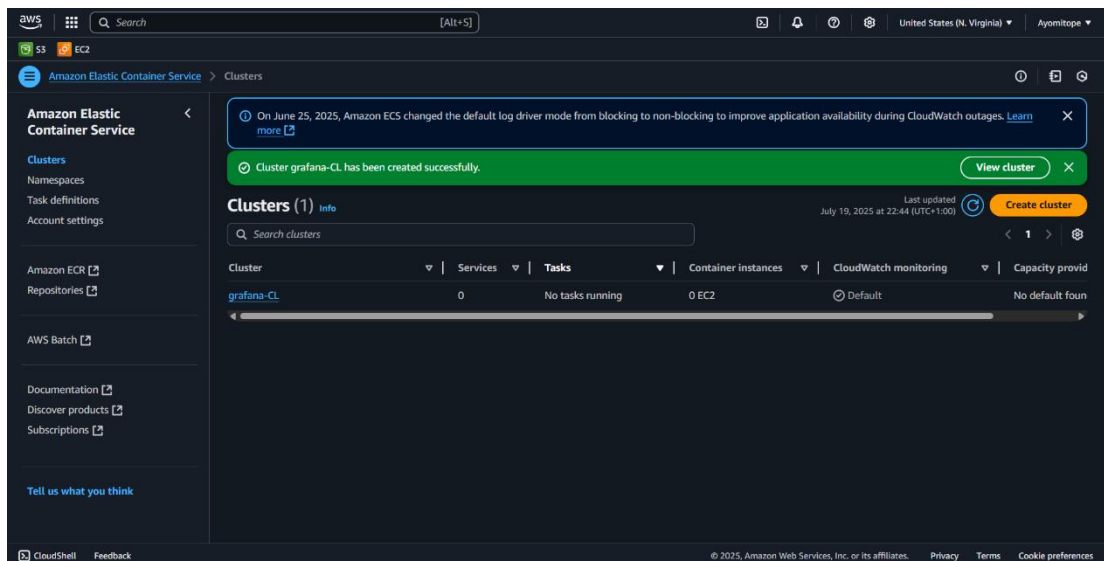
Created a Security Group

1. In the AWS Console, go to **VPC > Security Groups**.
2. Clicked **Create security group**.
 - o Name: `grafana-sg`
 - o Description: "Allow inbound HTTP on port 3000"
 - o VPC: my *VPC*
3. Under **Inbound rules**, added:
 - o Type: **Custom TCP**
 - o Port range: **3000**
 - o Source: **0.0.0.0/0**



Set Up an ECS Cluster

1. In the Console, navigated to **ECS > Clusters**.
2. Click **Create cluster > Networking only (Powered by AWS Fargate)**.
3. Named it `grafana-CL` and click **Create**.

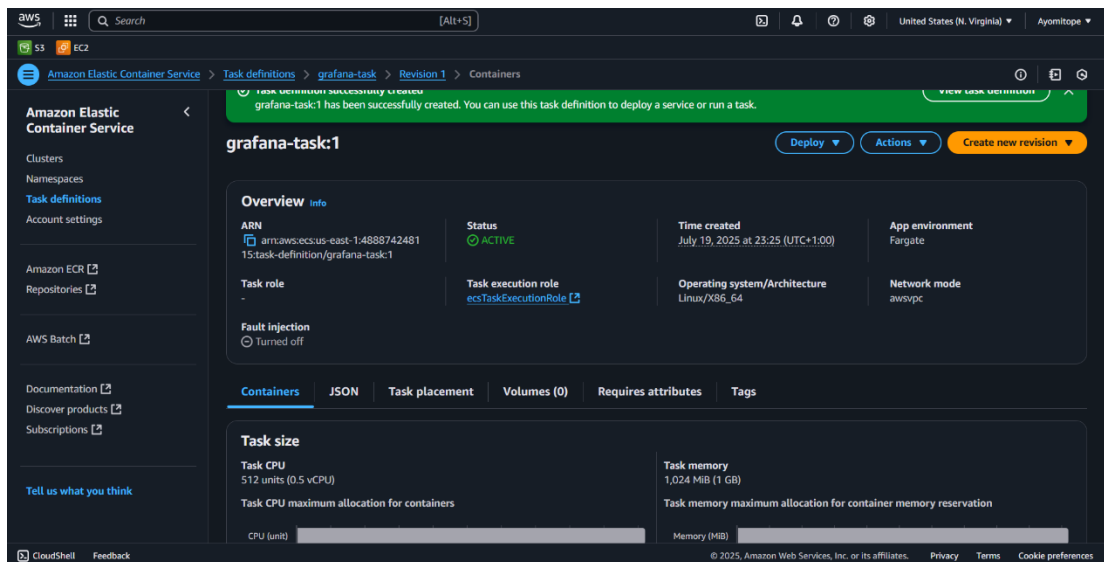
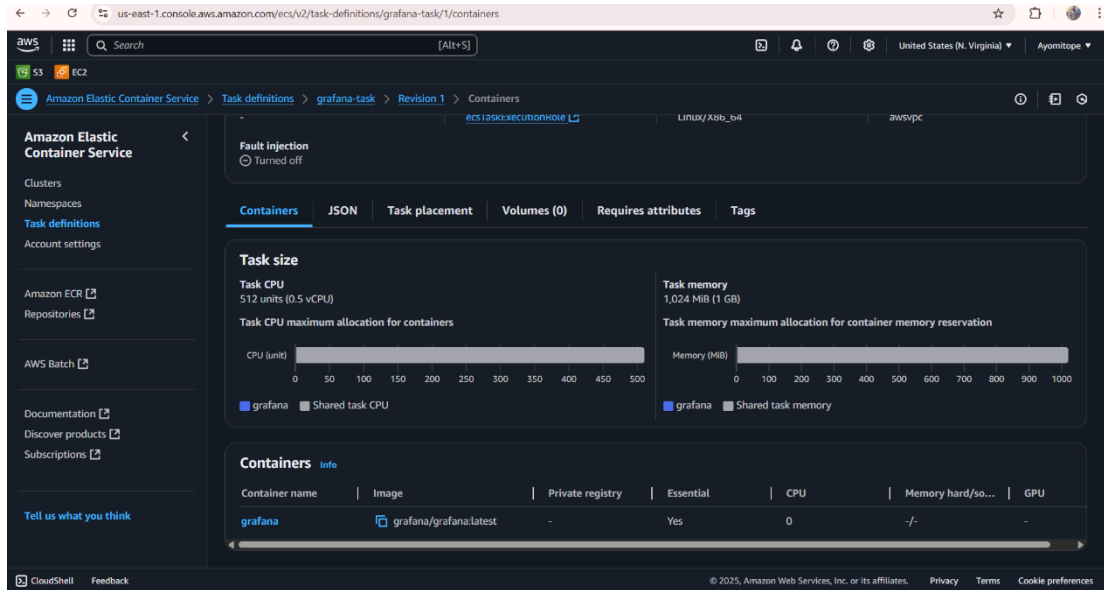


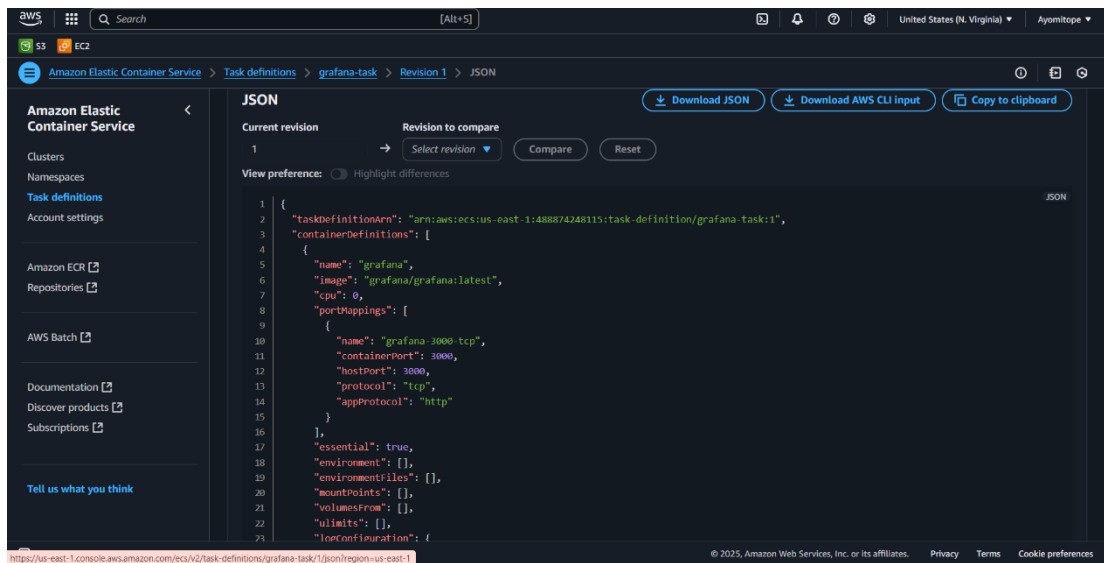
Define the Task Definition

1. Go to **ECS > Task Definitions > Create new Task Definition**.
2. Choose **FARGATE**, click **Next**.
3. Configure:
 - Task Definition Name: `grafana-task`
 - Task Role: *leave blank*
 - Network Mode: `awsvpc`

- CPU & Memory: e.g., **0.5 vCPU** (512 MiB) / **1 GB**
4. Under **Container definitions**, click **Add container**:

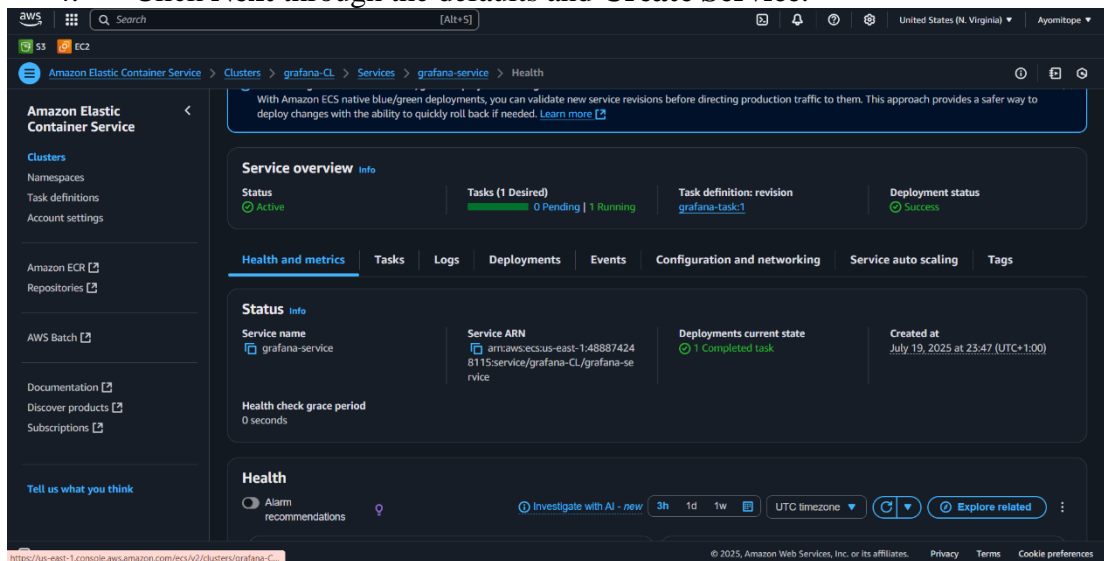
- Name: grafana
- Image: grafana/grafana:latest
- Port mappings:
 - Container port: 3000
 - Protocol: tcp
- Click **Add** and then **Create** task definition





Run the Service

1. In your `grafana-CL` , click **Create** > **Create Service**.
2. Configure:
 - Launch type: **FARGATE**
 - Task Definition: `grafana-task`
 - Service name: `grafana-service`
 - Number of tasks: 1
3. Under **Networking**:
 - VPC: `My VPC`
 - Subnets: select a **public subnet**
 - Security groups: select `grafana-sg`
4. • Click **Next** through the defaults and **Create Service**.



Access Grafana

1. In **EC2 > Network Interfaces**, find the ENI attached to my Grafana task.
2. Copy its **Public IPv4 address**.(54.221.12.105)
3. Open `http:// 54.221.12.105:3000` in my browser.
4. Login with:

- Username: **admin**
- Password: **admin**

The screenshot shows the AWS Management Console for an Amazon Elastic Container Service (ECS) task. The breadcrumb navigation is: Amazon Elastic Container Service > Clusters > grafana-CL > Tasks > 22cae7372cd14df29abd4da1e96c89de > Configuration. A notification banner at the top states: "On June 25, 2025, Amazon ECS changed the default log driver mode from blocking to non-blocking to improve application availability during CloudWatch outages. Learn more." The task ID is 22cae7372cd14df29abd4da1e96c89de, last updated on July 19, 2025 at 23:58 (UTC+1:00). The task overview shows it is in a "Running" state. The "Network bindings" tab is selected, showing a host port of 3000, a container port of 3000, and a protocol of tcp. The external link is 54.221.12.105:3000, with a link to "open address".

