# AWS ECS & EC2 CloudWatch Monitoring Report

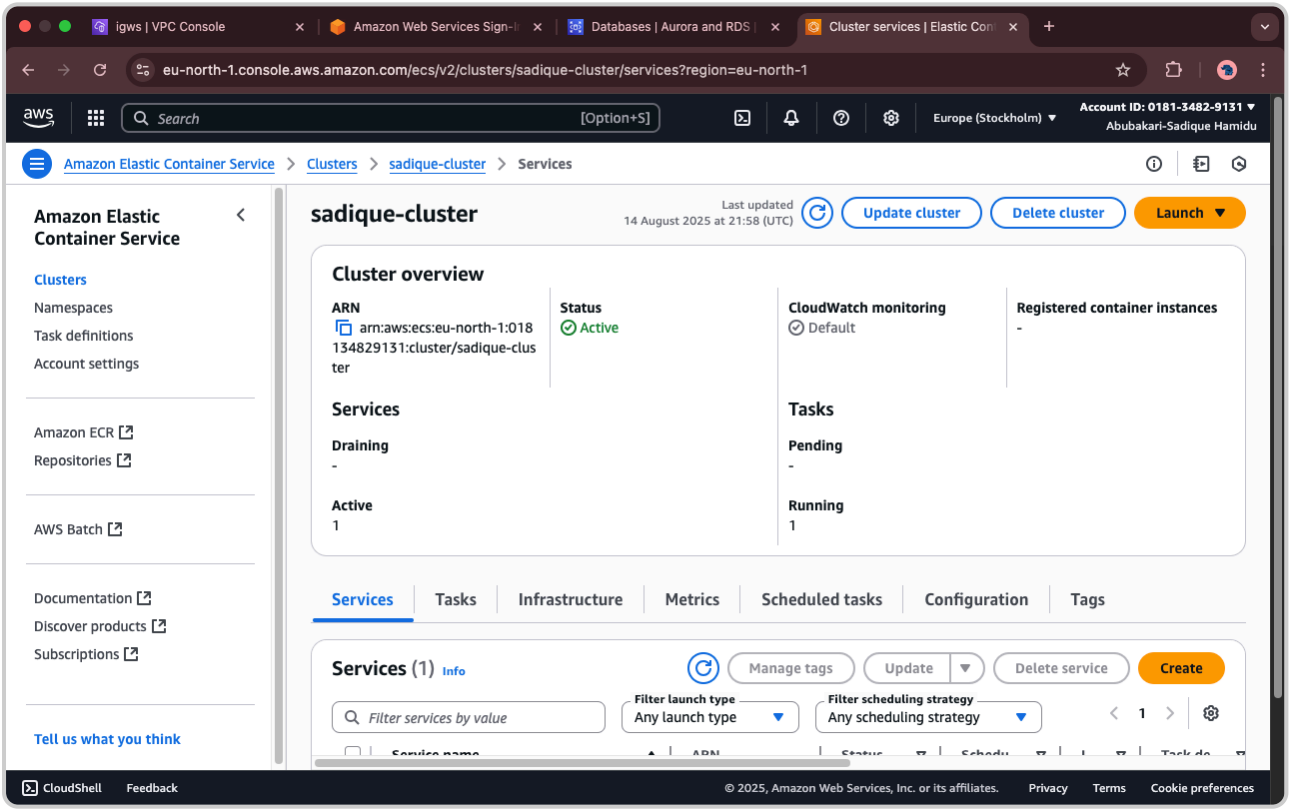
**Name:** Abubakari-Sadique Hamidu

**Date:** August 2025

## 1. ECS Cluster and Running Service

*ECS cluster and running service*

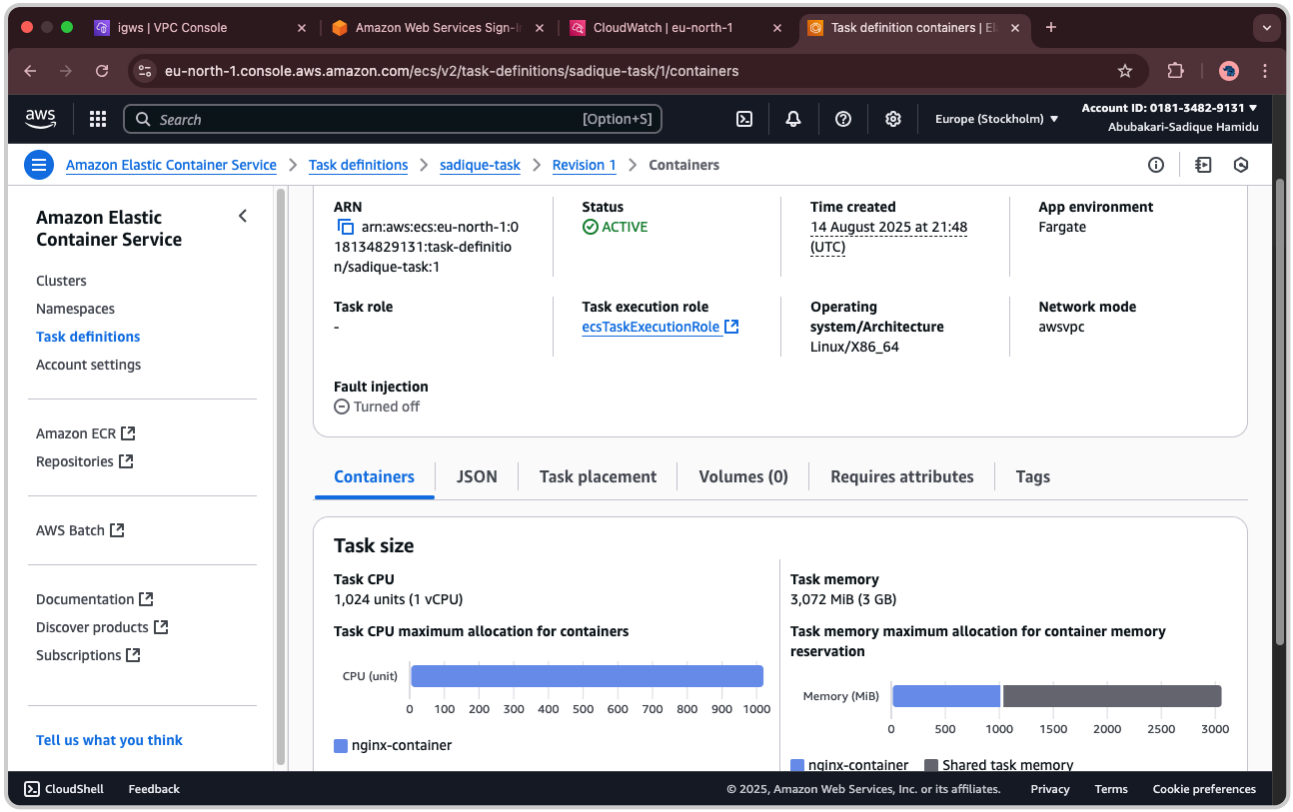
*Reason: Deployed the containerized application using ECS Fargate to run it in a scalable, serverless environment. Monitoring the cluster ensures the service is running correctly.*




## 2. ECS Task Definition (CPU & Memory Settings)

*Task definition showing CPU & memory*

*Reason: Configured CPU and memory in the task definition to allocate appropriate resources to the container, ensuring smooth performance without over-provisioning.*

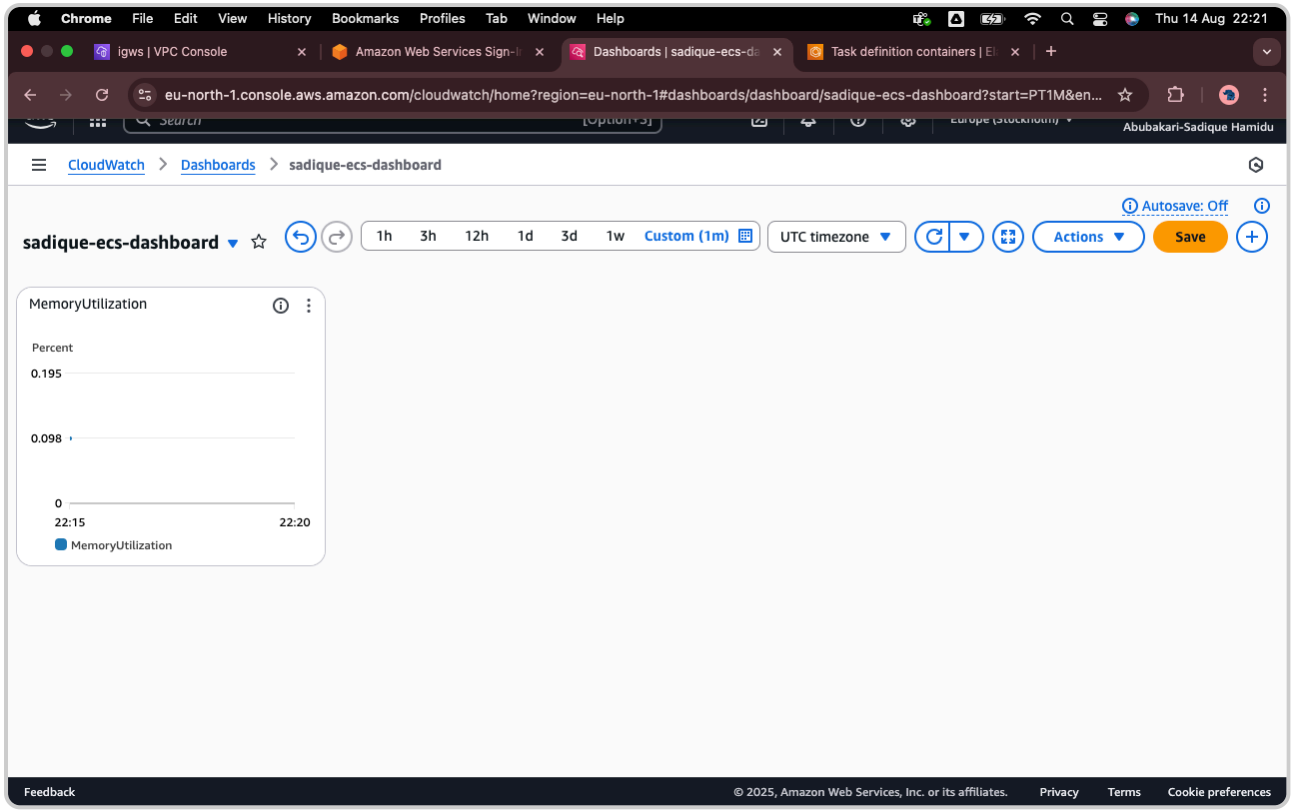



# 3. CloudWatch Dashboard - ECS & EC2 Monitoring

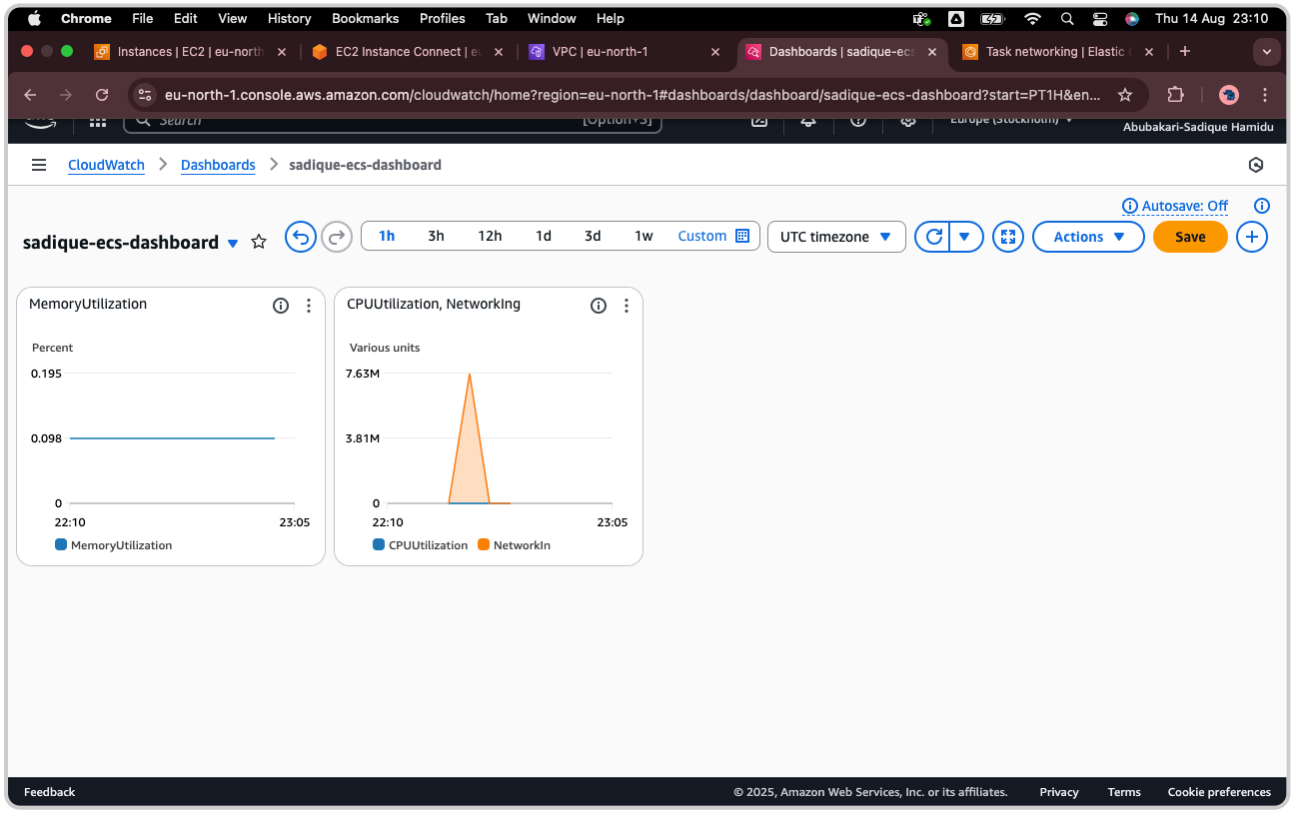
*CloudWatch dashboard showing CPUUtilization and MemoryUtilization for ECS and EC2*

*Reason: Used CloudWatch dashboards to monitor ECS and EC2 metrics in real-time. This helps verify that resources are functioning properly and observe the impact of load tests.*

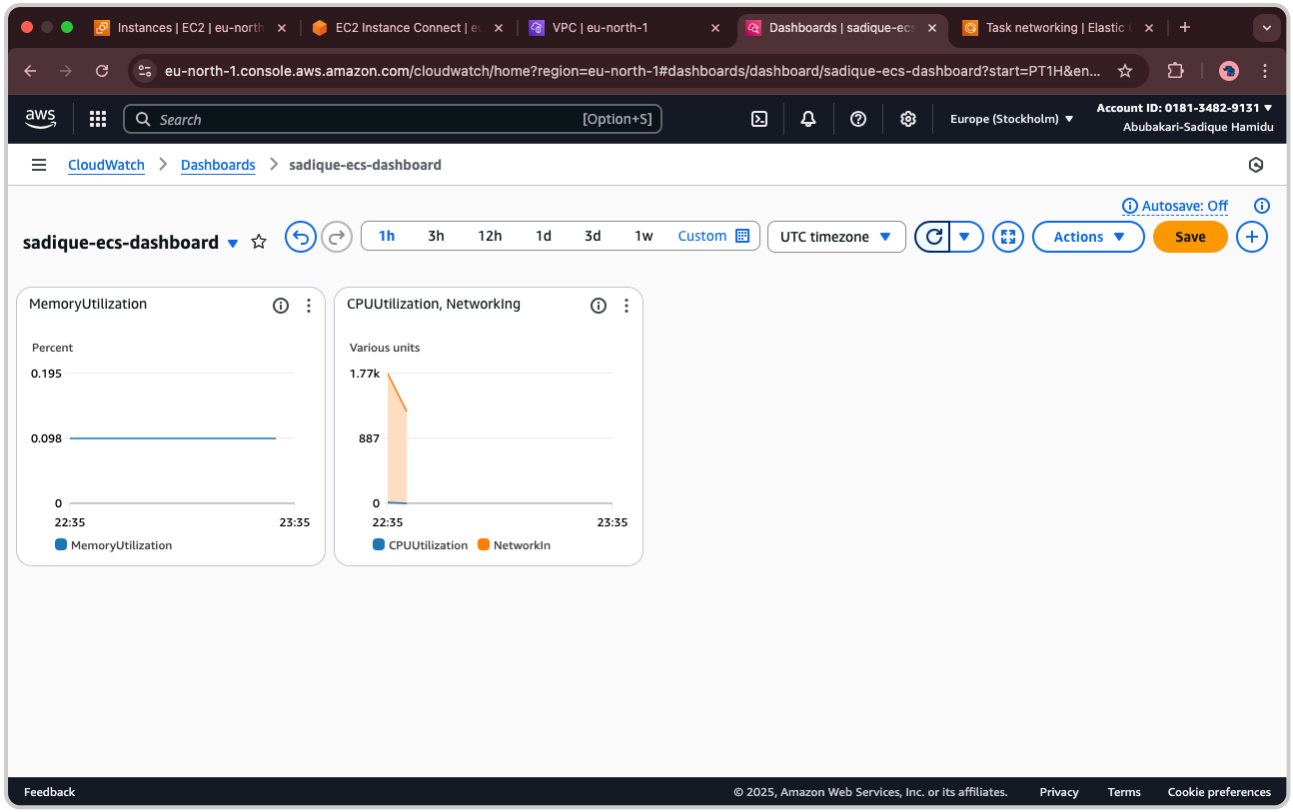
*Screenshot 1: ECS only*




*Screenshot 2: ECS + EC2 after stress*




*Screenshot 3: ECS + EC2 after stress*

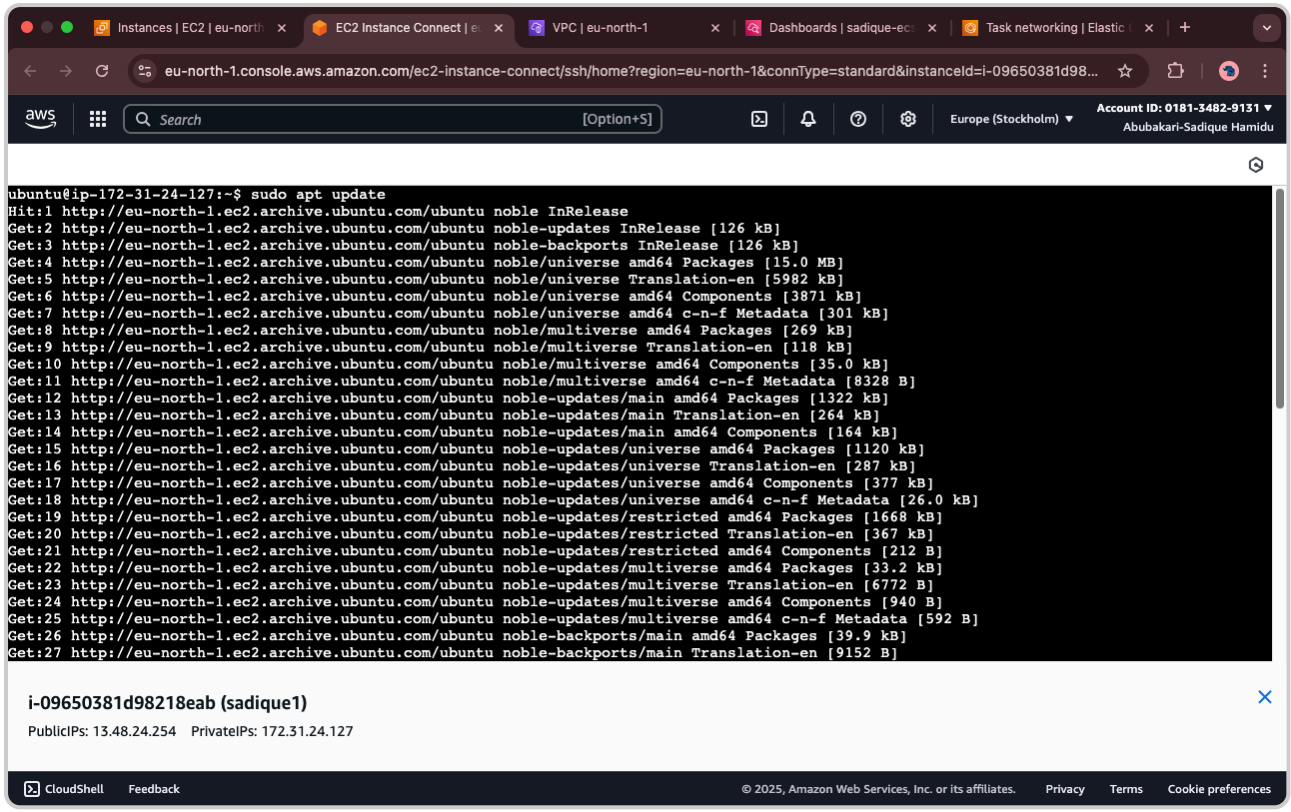



# 4. EC2 Stress Test Commands

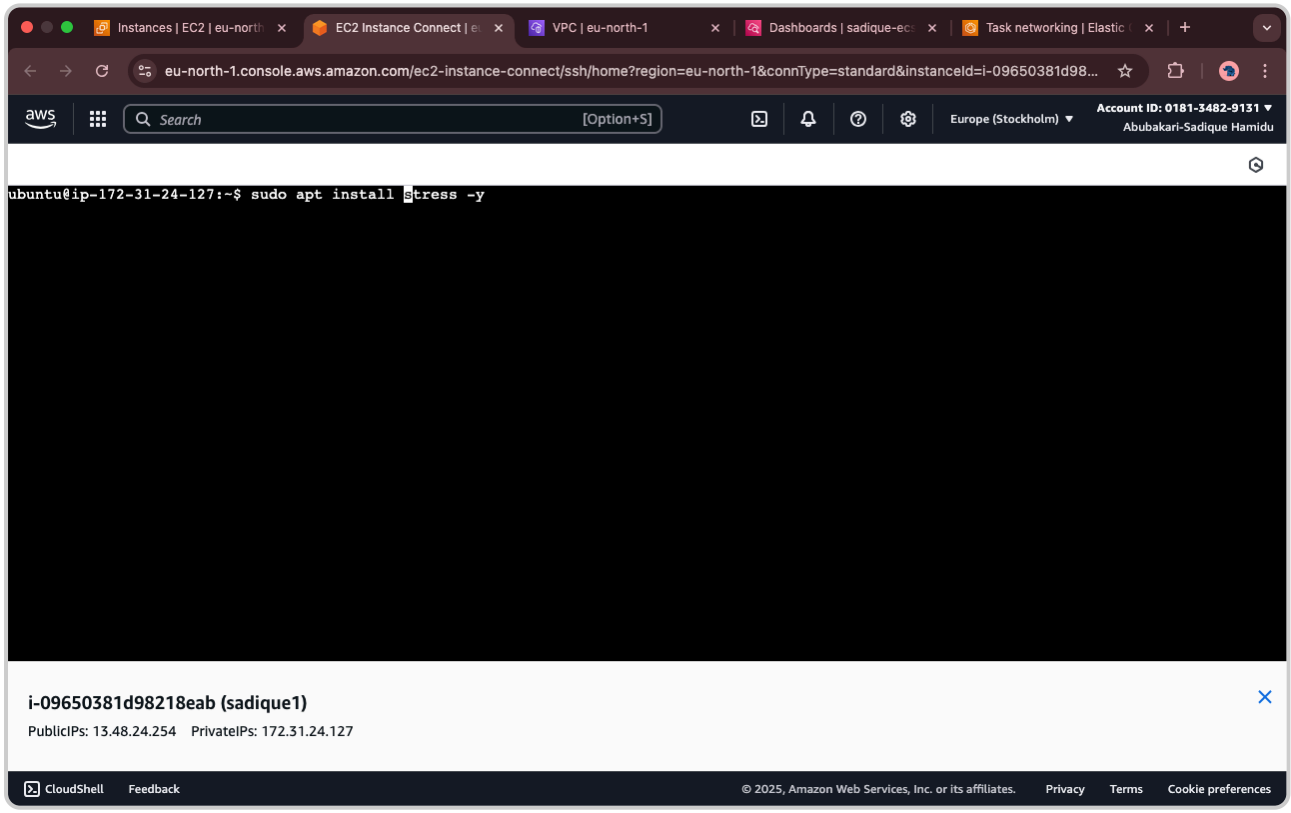
*Simulating CPU load on EC2 instance*

*Reason: Installed and ran the stress tool to simulate CPU load on the EC2 instance. This allows us to see how CloudWatch metrics respond under increased workload, verifying monitoring effectiveness.*

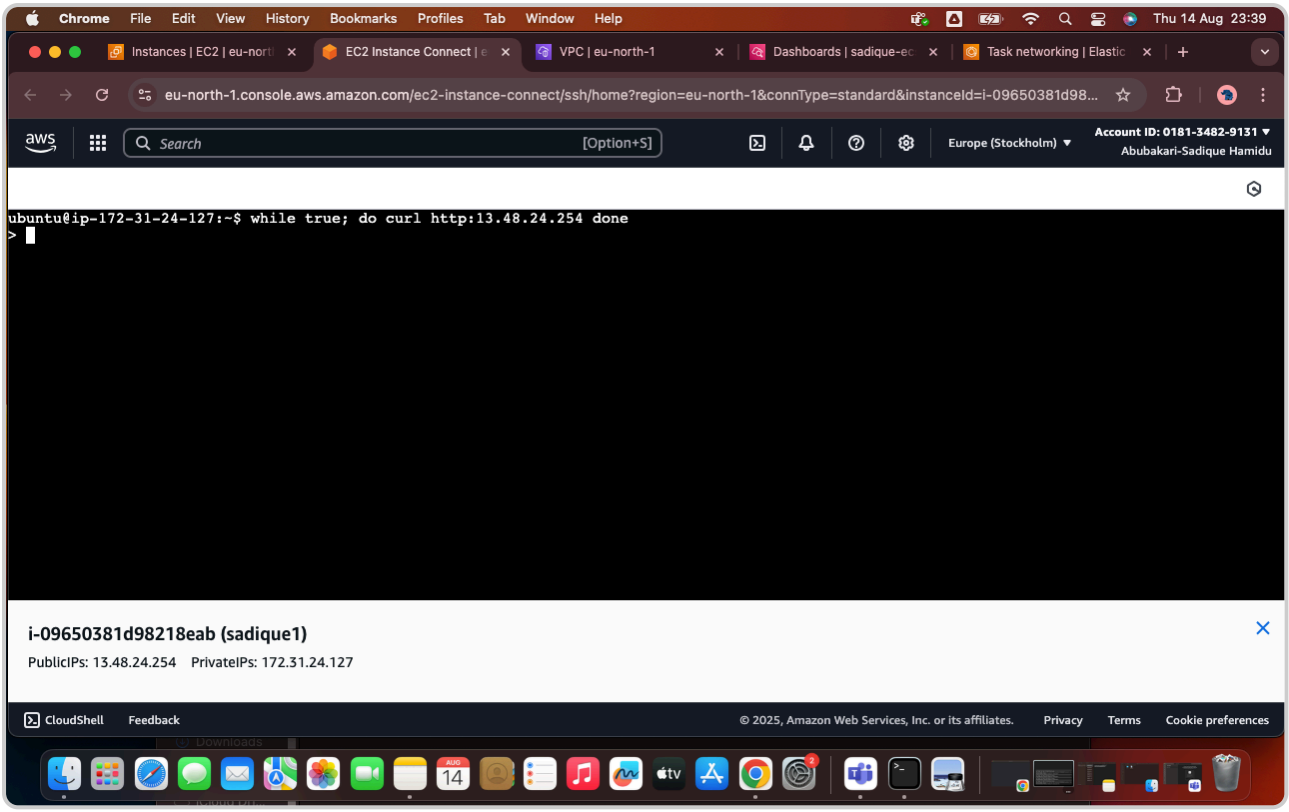
*apt update*



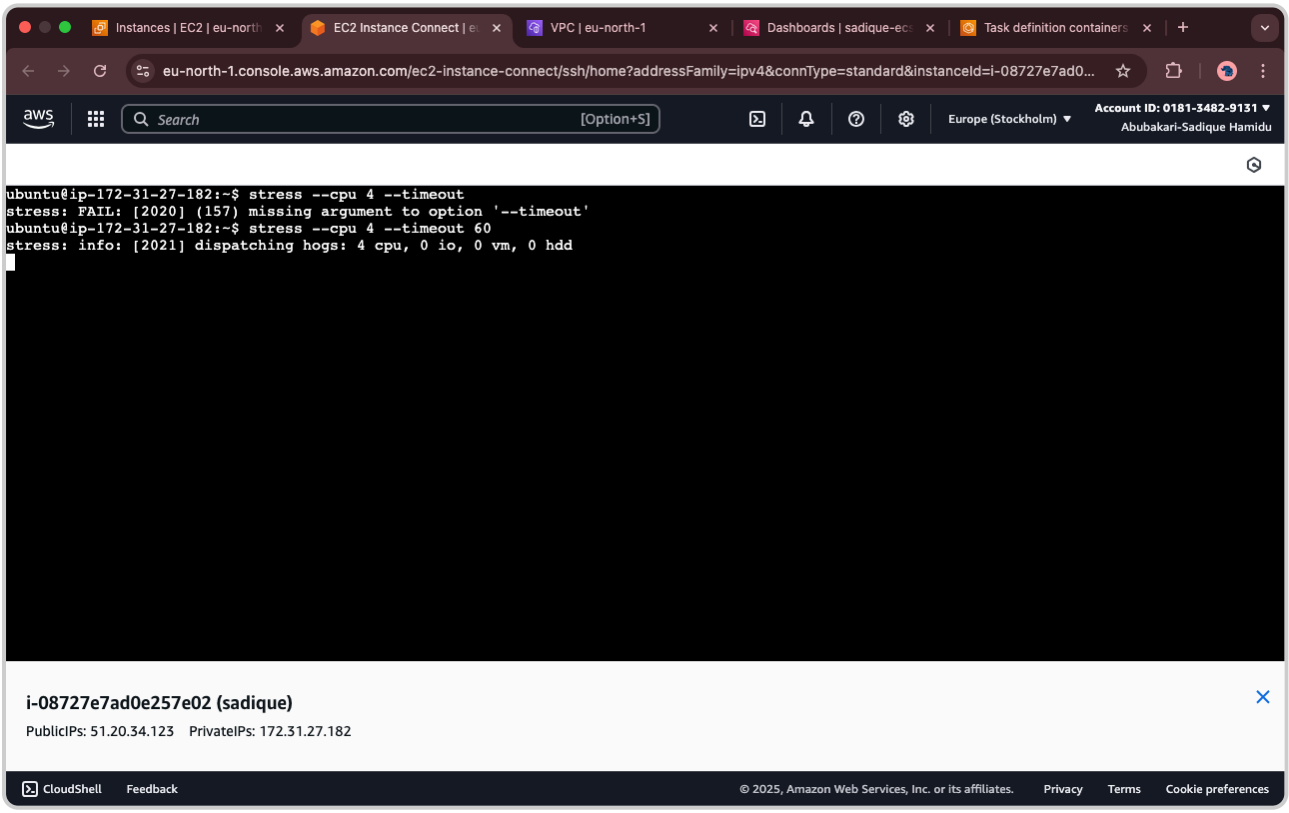

*Install stress*




*Stress run (1)*




*Stress run (2)*




---

AWS ECS & EC2 Monitoring Report — Prepared by Abubakari-Sadique Hamidu, August 2025