

Week 5 — Grafana Deployment on ECS (Fargate)

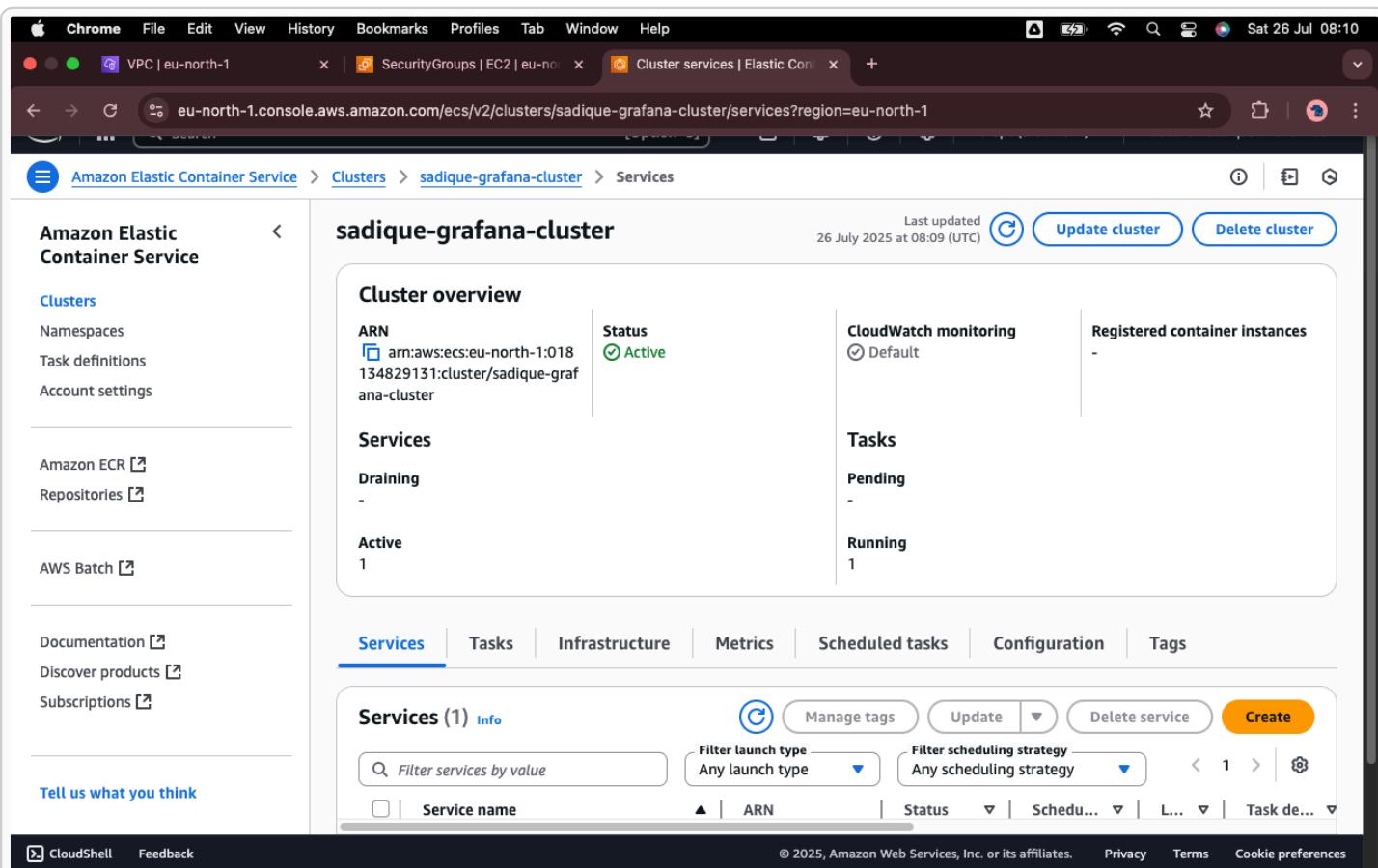
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Description

Deployed Grafana on Amazon ECS using the grafana/grafana Docker image. Configured a task definition exposing port 3000 and launched the service in a public subnet with a security group allowing inbound traffic on port 3000. Verified deployment by accessing Grafana login page in the browser.

Screenshots

ECS Cluster & Service:



The screenshot shows the AWS CloudWatch Metrics console with the following details:

- ARN:** arn:aws:ecs:eu-north-1:018134829131:cluster/sadique-grafana-cluster
- Status:** Active
- CloudWatch monitoring:** Default
- Registered container instances:** -
- Services:**
 - Draining:** -
 - Active:** 1
- Tasks:**
 - Pending:** -
 - Running:** 1

Below the cluster overview, there is a table for services:

Services	Info	Manage tags	Update	Delete service	Create	
Services (1)	Info	Filter services by value	Filter launch type	Any launch type	Filter scheduling strategy	Any scheduling strategy
		Service name	ARN	Status	Schedu...	L...

Task Definition (grafana/grafana):



Security Group (port 3000 open):

Chrome File Edit View History Bookmarks Profiles Tab Window Help Sat 26 Jul 07:42

VPC | eu-north-1 ModifyInboundSecurityGroup Clusters | Elastic Container S...

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0f8a520fdccb3...

To exit full screen, press and hold esc

EC2 > Security Groups > sg-0f8a520fdccb37006 - sadique-grafana-sg Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules Info

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-01fcfb945fd65b089	Custom TCP	TCP	3000	Cu... ▾	0.0.0.0/0 X

Add rule

⚠ Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Preview changes Save rules

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Grafana Login Page:

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VPC | eu-north-1 SecurityGroups | EC2 | eu- Task networking | Elastic | SecurityGroup | EC2 | eu- Grafana

Not Secure 13.48.71.207:3000/login

 Update your password

Continuing to use the default password exposes you to security risks.

New password:

Confirm new password:

Documentation | Support | Community | Open Source | Grafana v12.1.0-16509090662 (2196727226)

Grafana Profile:

The screenshot shows the Grafana Profile page. On the left is a sidebar with links: Home, Bookmarks, Starred, Dashboards, Explore, Drilldown, Alerting, Connections, and Administration. The main content area has a title 'Profile'. It contains fields for 'Name' (Abubakari-Sadique), 'Email' (admin@localhost), and 'Username' (admin). A blue 'Save' button is at the bottom. Below this is a 'Preferences' section with dropdowns for 'Interface theme' (Default), 'Home Dashboard' (Default dashboard), 'Timezone' (Default), and 'Week start' (Default).

Grafana Home Page:

The screenshot shows the Grafana Home page. The top navigation bar includes links for Chrome, File, Edit, View, History, Bookmarks, Profiles, Tab, Window, and Help. The address bar shows the URL 13.48.71.207:3000/?orgId=1&from=now-6h&to=now&timezone=browser. The main content area features a 'Welcome to Grafana' message and a 'Need help?' section with links to Documentation, Tutorials, Community, and Public Slack. On the left is a sidebar with the same navigation links as the profile page. Below the sidebar are sections for 'Dashboards' (Starred dashboards, Recently viewed dashboards) and 'Latest from the blog' (an article titled 'Tracking nearby aircraft with Grafana').