### UNIVERSIDAD PRIVADA DE TACNA



### FACULTAD DE INGENIERIA Escuela Profesional de Ingeniería de Sistema

Informe de laboratorio 10: Construyendo una Arquitectura Serverless

Curso: Inteligencia de negocios

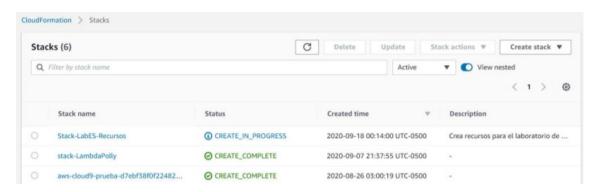
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Alumno: Balcon Coahila, Edwart Juan (2013046516)

Tacna – Perú 2021

### 1. Realizar los siguientes pasos para el laboratorio

1.1. Visualizamos en CloudFormation que se estén creando los recursos del stack.



1.2. Para hacer una prueba de nuestros token de Twitter, ejecutaremos lo siguiente, pero antes debemos agregar nuestros token dentro el código.

```
bash-"ip-172-31-52 × bash-"ip-172-31-52 × python3 - "ip-172-31 × +

cc2-user:~/environment/13ES $ python3 ReadTwitter.py covid

covid

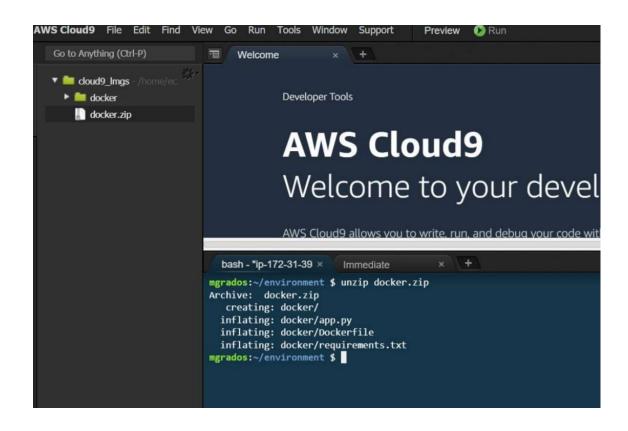
(INFO] El usuario styxNstonz (Tiene 414 seguidores y sigue a 436), vive en None ha comentado sobre el hashtag #covid

(INFO] El usuario Terry Fleischman (Tiene 33 seguidores y sigue a 16), vive en None ha comentado sobre el hashtag #covid

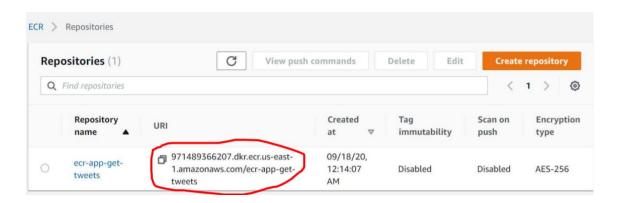
(INFO] El usuario edgar jimenez (Tiene 106 seguidores y sigue a 91), vive en None ha comentado sobre el hashtag #covid

(INFO] El usuario Patrick Henningsen (Tiene 50922 seguidores y sigue a 2608), vive en USA ha comentado sobre el hashtag #covid
```

1.3. Entramos a la carpeta docker.



1.4. Entramos al servicio de ECR desde la consola y veremos nuestro repo creado. Copiamos el URI del repositorio.



#### 1.5. Construiremos la imagen Docker.

```
ec2-user:~/environment/13ES/docker $ docker build -t ecr-app-get-tweets:v1 .

Sending build context to Docker daemon 6.144kB

Step 1/7 : FROM python:3.7
---> e4e55e98f1e0

Step 2/7 : WORKDIR /usr/src/app
---> Using cache
---> 001eacfc696a

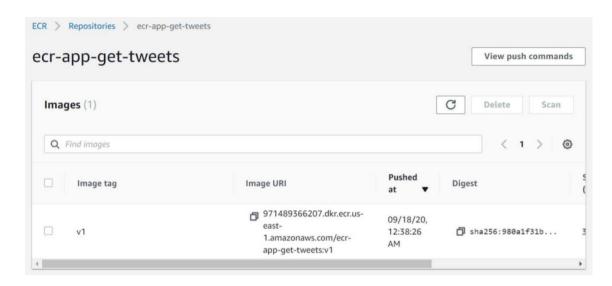
Step 3/7 : RUN cd /usr/src/app
---> Using cache
---> 2a8973b4508e

Step 4/7 : COPY requirements.txt /usr/src/app
---> cf3edfa5e1d1

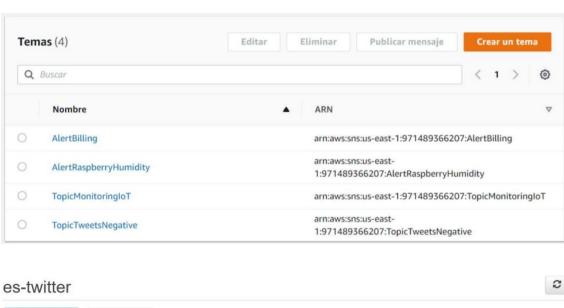
Step 5/7 : COPY app.py /usr/src/app
---> f3ddbbeda191
```

#### 1.6. Subimos la imagen al ECR

1.7. Regresamos el ECR y obtenemos el URI de la imagen subida.

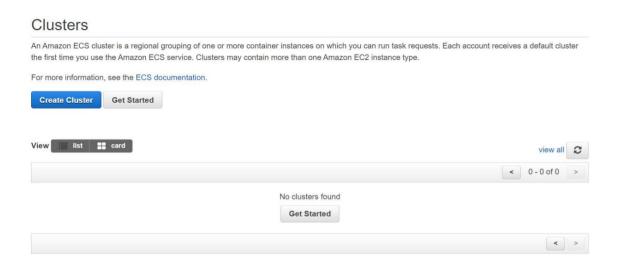


#### 1.8. Seleccionamos el tópico Topic Tweets Negative y obtenemos su ARN y Clic en la función Lambda llamada : Detect Sentiment Tweets.



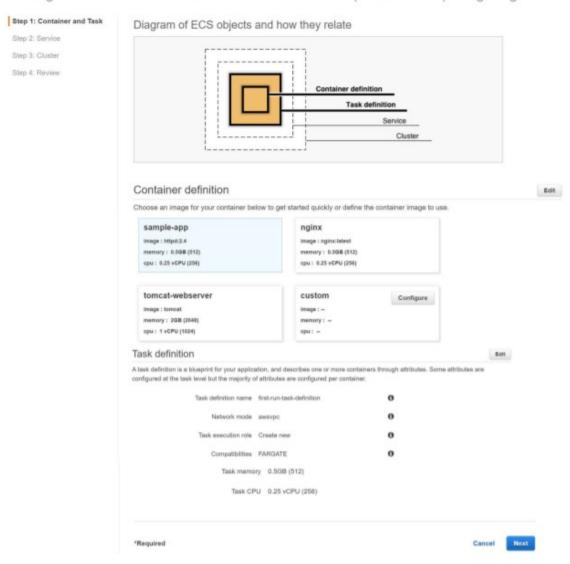


# 1.9. Creamos un clúster en ECS (no genera costo), clic en Get Started

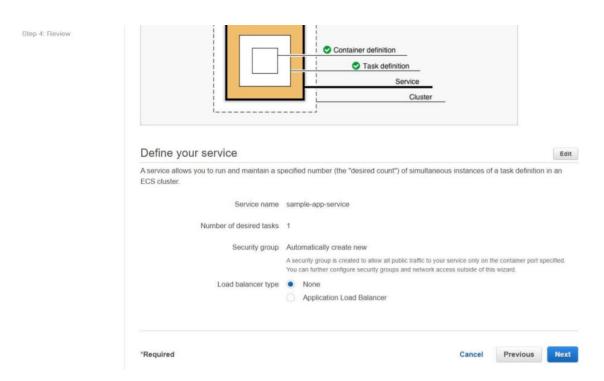


#### 1.10. Clic en Next

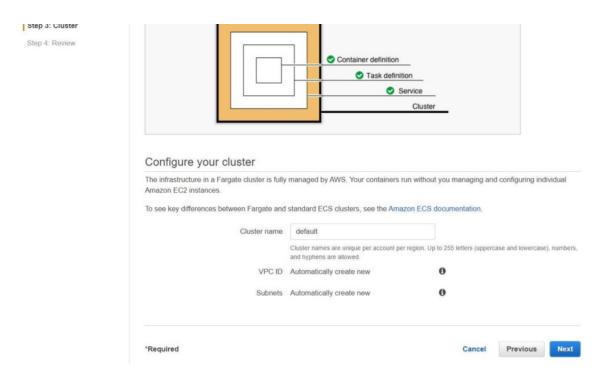
Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate



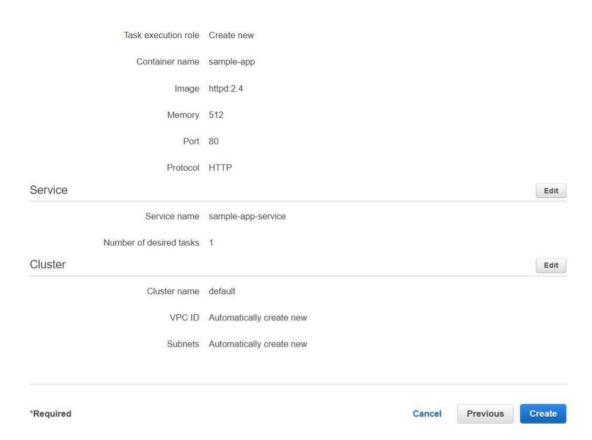
#### 1.11. Clic en Next.



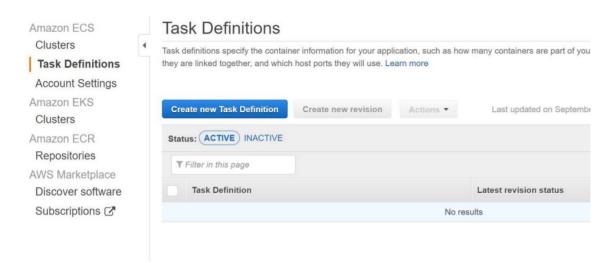
#### 1.12. Clic en Next.



1.13. Clic en Create

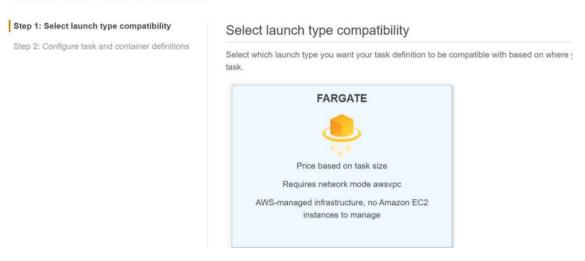


#### 1.14. Creamos una definición de tarea.



#### 1.15. Clic en Fargate

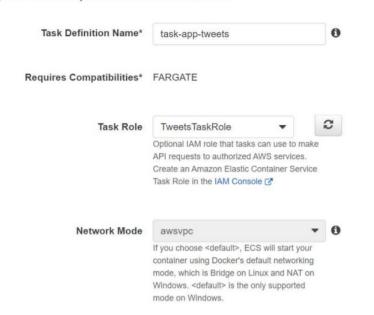
#### Create new Task Definition



#### 1.16. Elegir un nombre para el task definition.

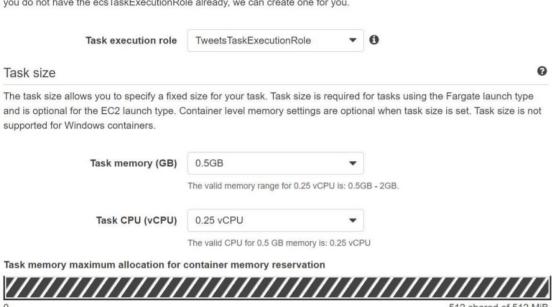
#### Configure task and container definitions

A task definition specifies which containers are included in your task and how they interact with each other. You can also specify data volumes for your containers to use. Learn more

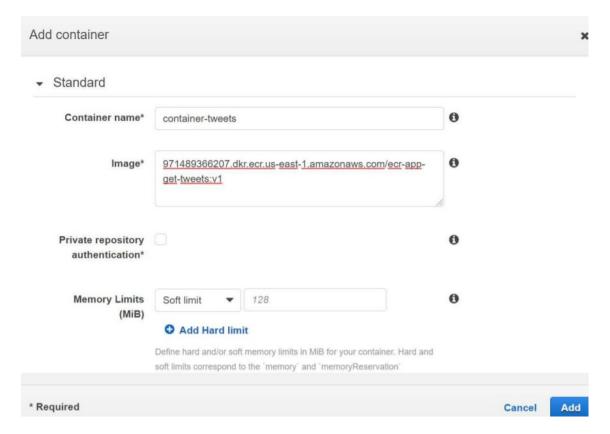


#### Task execution IAM role

This role is required by tasks to pull container images and publish container logs to Amazon CloudWatch on your behalf. If you do not have the ecsTaskExecutionRole already, we can create one for you.



1.17. Agregar el contenedor a desplegar en Fargate.



#### 1.18. Clic en crear.

## Launch Status

### Task definition status - 2 of 2 completed

Create Task Definition: task-app-tweets

task-app-tweets succeeded

Create CloudWatch Log Group

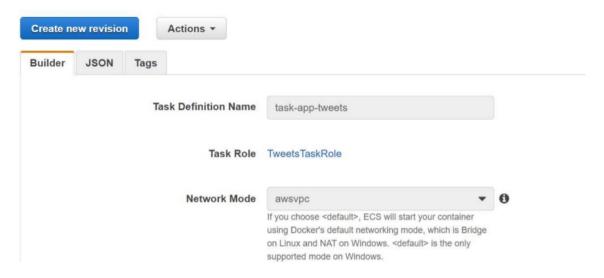


CloudWatch Log Group created
CloudWatch Log Group /ecs/task-app-tweets

1.19. Ejecutar el task definition, clic en Action -¿Run task.

### Task Definition: task-app-tweets:1

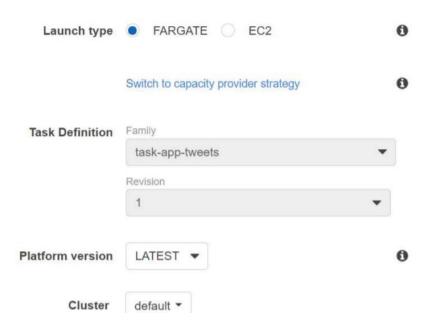
View detailed information for your task definition. To modify the task definition, you need to create a new revision and then me the task definition



1.20. Elegir el lanzamiento por Fargate.

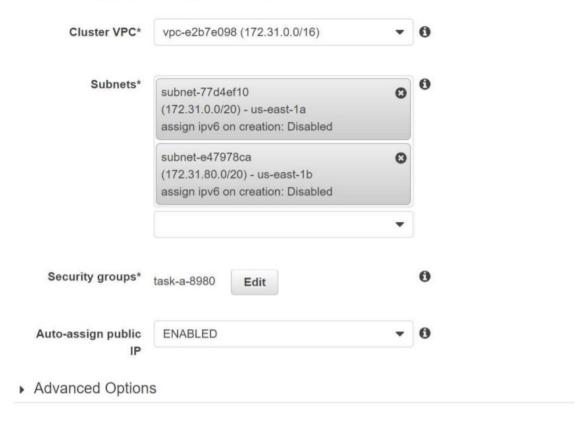
### Run Task

Select the cluster to run your task definition on and the number of copies of that task to run. To apply containstances, click Advanced Options.

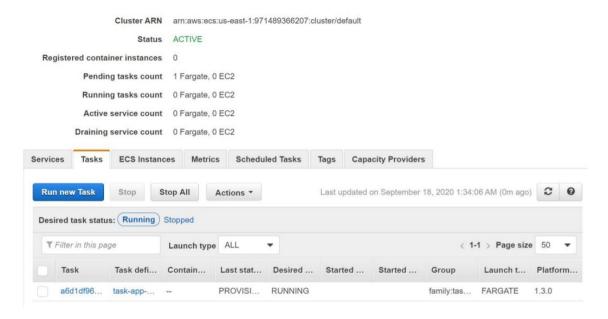


### VPC and security groups

VPC and security groups are configurable when your task definition uses the awsvpc network mode.



1.21. El task definition ya se está ejecutando.



# 1.22. Ahora acceder al servicio de ElasticSearch. Clic en Acciones -¿Modificar política de acceso

