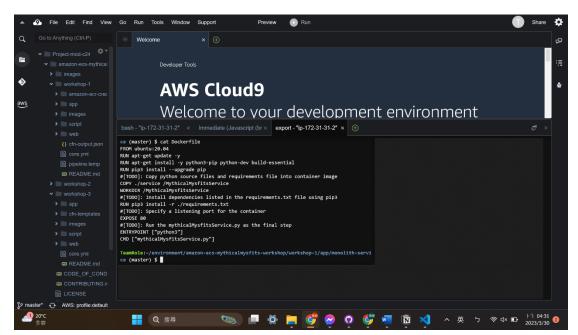
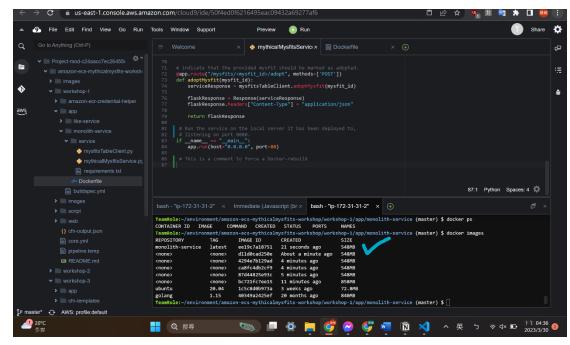
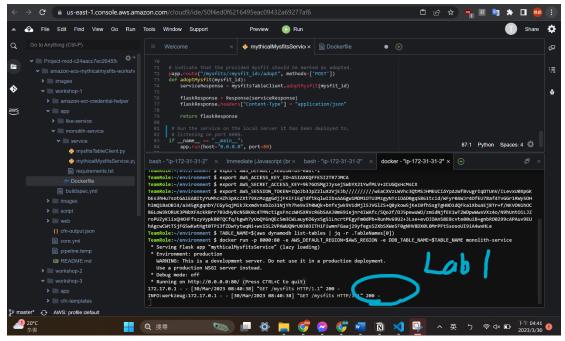
Lab 1. Containerize the Mythical Mysfits monolith

- 目的: 轉寫一個希臘神話的網頁,製作成 docker image 發布到 ECR 上並 使用 ECS 部屬網站。最後將功能切分,以 loadbalancer 調節 api 流量。
- 撰寫 docker file 並建立 web app image

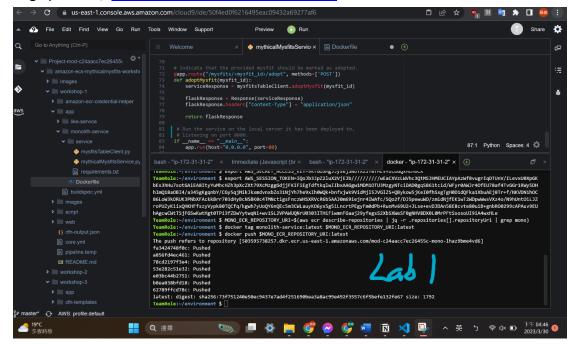


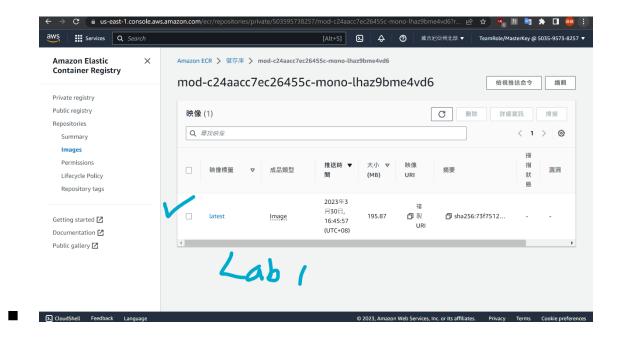


• Docker run 本地的容器



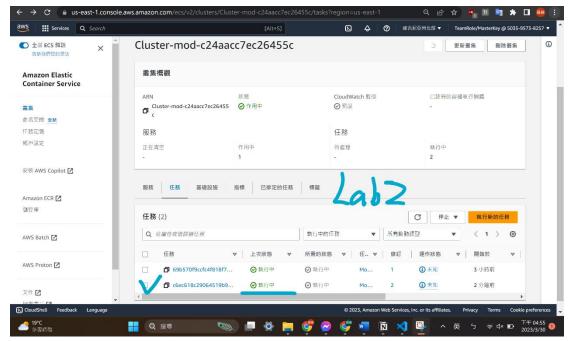
• 將 image push 到 Amazon Elastic Container Registry 上



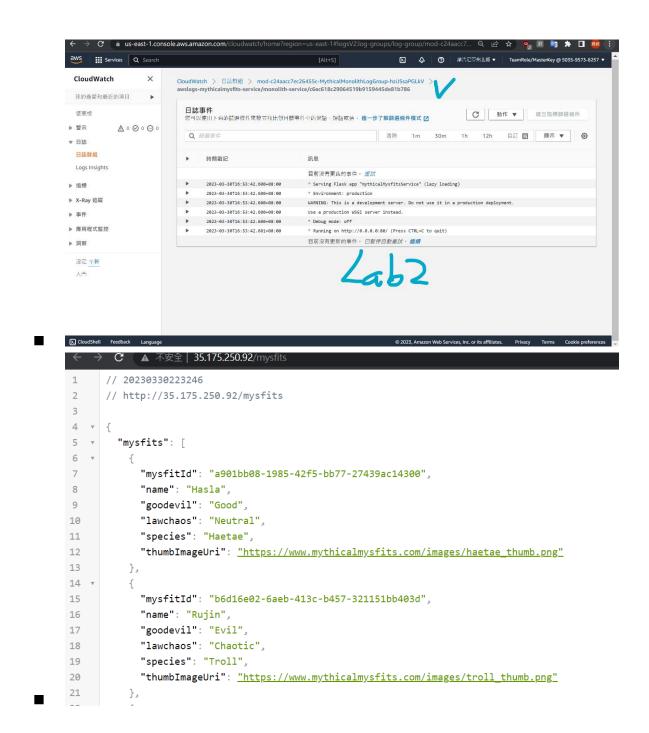


Lab 2. Deploy the container using AWS Fargate

• 把 Task 建立在 Amazon Elastic Container Service (ECS)上



• 可以從外部 IP 的 HTTP 連上剛剛部屬好的 task,透過 API 取得希臘神的資料。CloudWatch Logs dashboard 的 log 也能順利顯示部屬和 API 造訪資訊。



Lab 3. Scale the adoption platform monolith with an ALB and

an ECS Service

- 這個任務是要套用 Application Load Balancer (ALB)
- 先確認 NGigx 可用

Welcome to nginx!

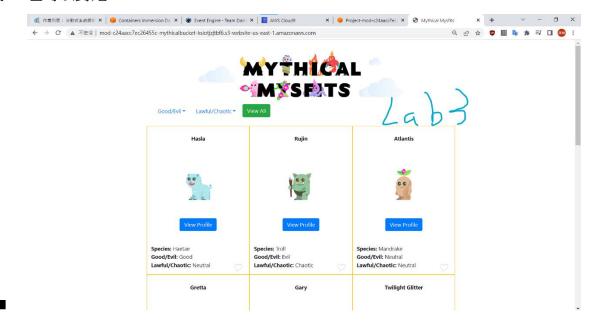
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

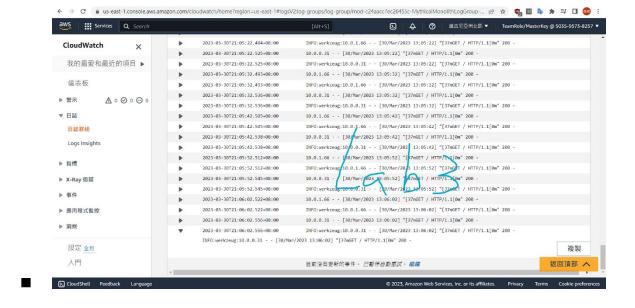
For online documentation and support please refer to <u>nginx.org</u>. Commercial support is available at <u>nginx.com</u>.

Thank you for using nginx.

• 確認 Public IP 有成功對外開放

• 更新 ECS cluster 的 service, 現在是第二版。並且小網站的 UI 更新上來了。也可以對她 like。





Lab 4. Incrementally build and deploy more microservices

with AWS Fargate

- 這個 lab 的目標是要將不容的服務分流,如 '/adopt' and '/like',和資料庫的存取劃分為不同服務。
- 將 "like" 功能移動到單獨的服務中。

```
# Welcome  

# indicate that the provided mysfit should be marked as adopted.

# indicate that the provided mysfit should be marked as adopted.

# adoptMysfit(mysfit_id):

# serviceResponse = Response(serviceResponse)

# indicate that the provided mysfit should be marked as adopted.

# adoptMysfit(mysfit_id):

# serviceResponse = mysfitsTableClient.adoptMysfit(mysfit_id)

# flaskResponse = Response(serviceResponse)

# flaskResponse.headers["Content-Type"] = "application/json"

# return flaskResponse

# Run the service on the local server it has been deployed to,

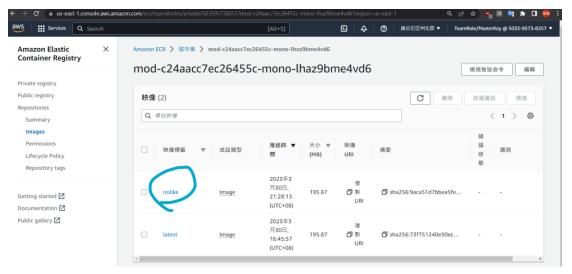
# listening on part RARA

| bash - "ip-172-31-31-2" × Immediate (Javascript (br × bash - "ip-172-31-31-2" × bash - "ip-172-31-31-2" × 

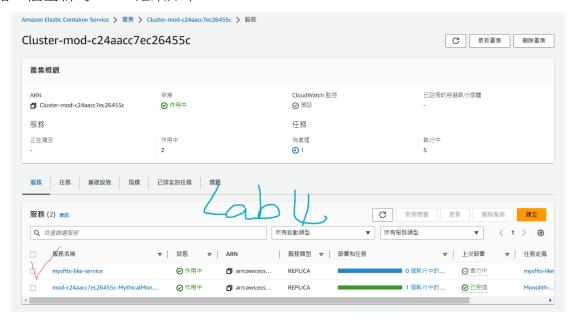
# bash - "ip-172-31-31-2" × Immediate (Javascript (br × bash - "ip-172-31-31-2" × 

# bash - "ip-172-31-31-2"
```

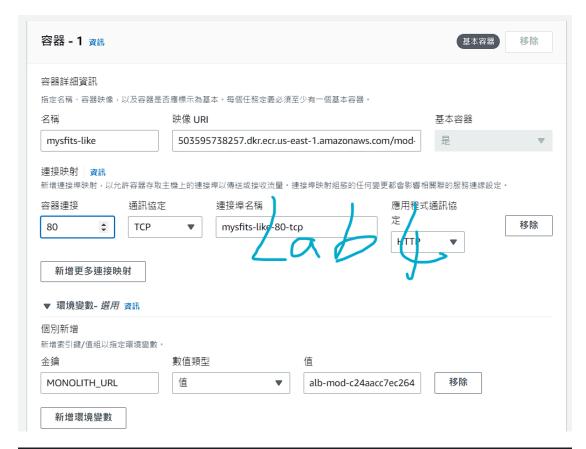
• 另外 build 和 push 一個 image "nolike"。



• 新增一個全新的 Task 結果如下



• 詳細步驟 (1) 設定 Container Details 以及 ALB DNS name,可以在 code 的 config 檔中看到

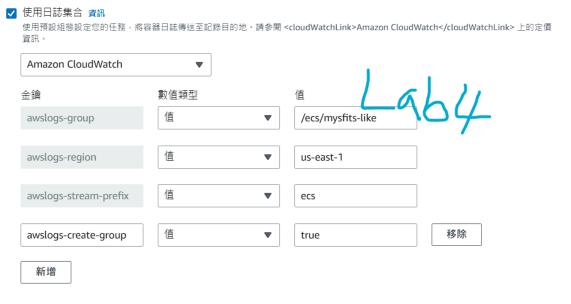




- 詳細步驟 (2)
- 設定每個 bucket (?) 的硬體環境,如 CPU 和 RAM,權限等等。



- 詳細步驟 (3)
- 紀錄 Logs



- 詳細步驟 (4)
- 設定已制定好的 load balancer,for listener, select Use an existing listener and choose 80:\HTTP from the drop-down.





• 最後確認小網站正常運作,一樣可以點愛心。





