Push docker image to AWS ECR

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1. 簡介說明

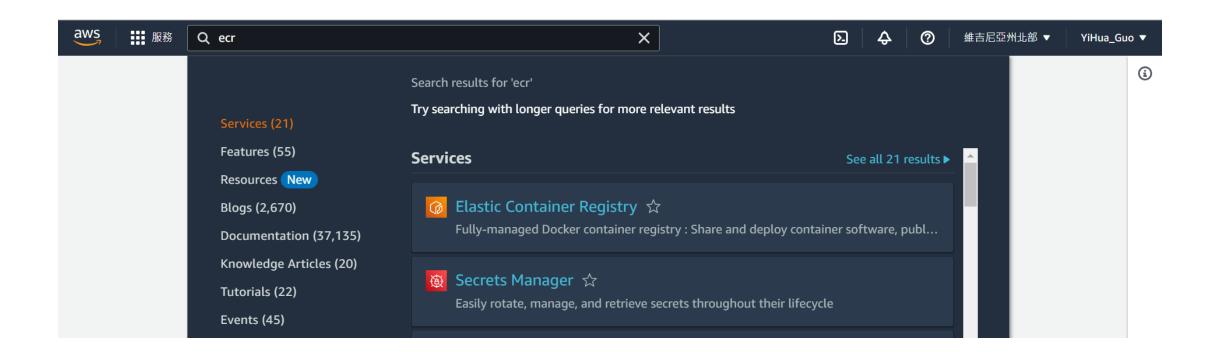
說明

 Private Docker Repository - Pushing our built Docker Image into a private Registry on AWS

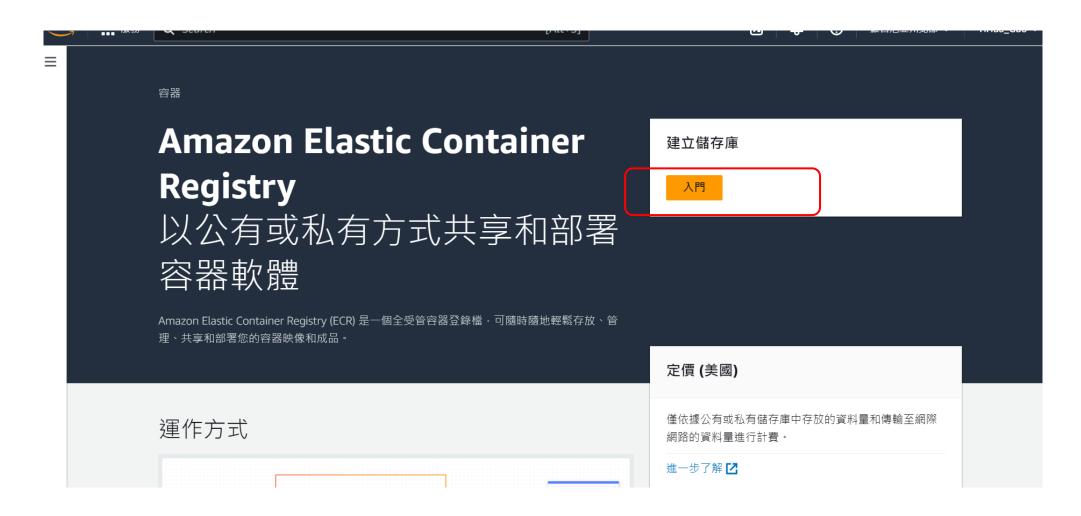
Deploy our containerized app

2. Image 推送至AWS ECR

搜尋 ecr



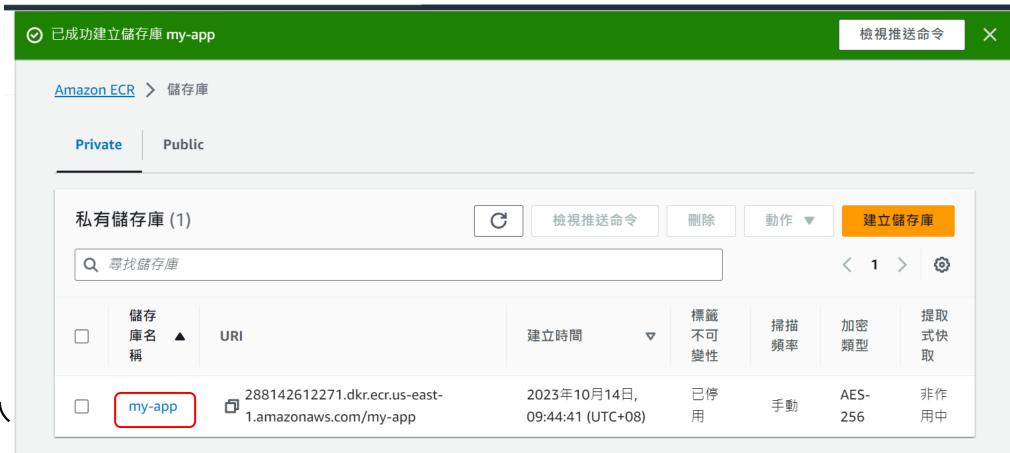
點選紅框"入門"選項



建立私有儲存庫

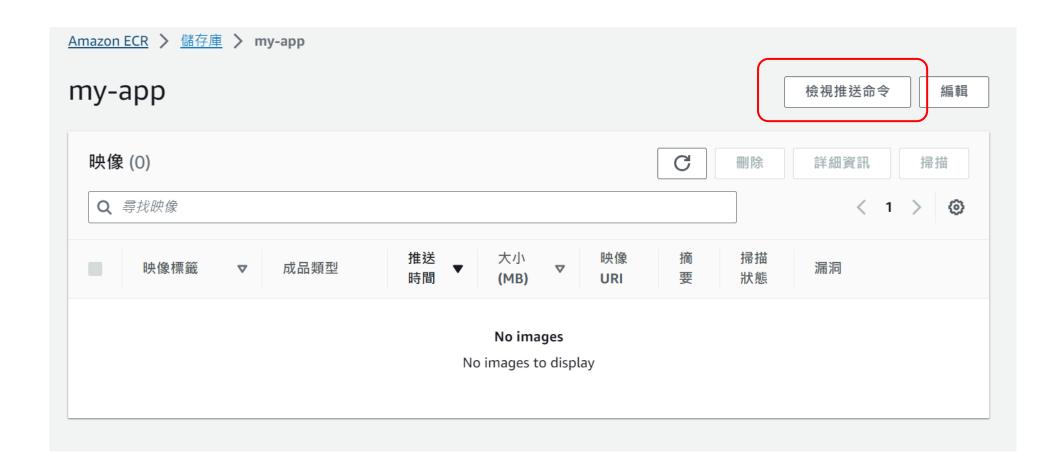


建立成功畫面



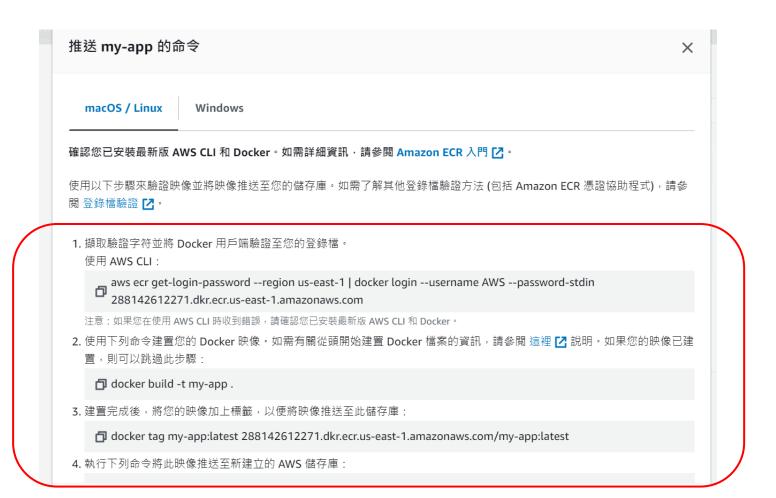
點選進入

點選 檢視推送命令



依照作業系統不同使用相對應的命令

推送命令



查看當前存在的 image

PS C:\Users\jerry> docker images									
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE					
my-app 要推送的 image	1.0	2de504f8fd65	14 hours ago	126MB					
mongo-express	latest	a776ee465303	43 hours ago	247MB					
mongo	latest	3be86e9501b0	10 days ago	748MB					
jupyter/pyspark-notebook	latest	b4062e157cea	3 weeks ago	4.91GB					
my-flask-app	latest	3af02193fbc7	3 weeks ago	1.09GB					
redis	7.0.13	7cf5a2b10347	5 weeks ago	130MB					
redis	latest	5b0542ad1e77	5 weeks ago	138MB					
7 / 7	1	- al a aa	- 1	22 245					

依照推送命令執行

```
PS C:\Users\jerry> (Get-ECRLoginCommand).Password | docker login --username AWS --password-stdin 288142612271.dkr.ecr.us -east-1.amazonaws.com
Login Succeeded

Logging in with your password grants your terminal complete access to your account.

For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
```

複製一份my-app 的 image

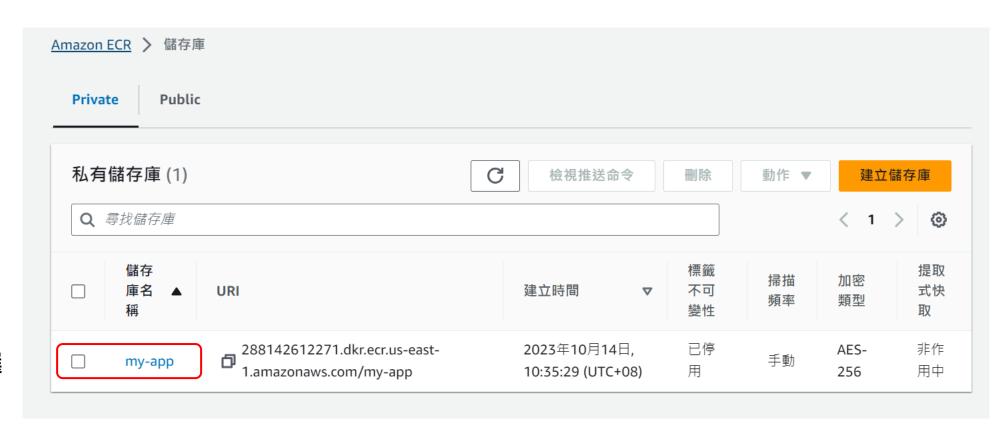
PS C:\Users\jerry> docker	images							
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE				
my-app	1.0	2de504f8fd65	15 hours ago	126MB				
mongo-express	latest	a776ee465303	44 hours ago	247MB				
mongo	latest	3be86e9501b0	10 days ago	748MB				
jupyter/pyspark-notebook	latest	b4062e157cea	3 weeks ago	4.91GB				
my-flask-app	latest	3af02193fbc7	3 weeks ago	1.09GB				
redis	7.0.13	7cf5a2b10347	5 weeks ago	130MB				
redis	latest	5b0542ad1e77	5 weeks ago	138MB				
sqlc/sqlc	latest	e5c3b6c57c08	5 weeks ago	98.2MB				
confluentinc/cp-zookeeper	latest	04bd40128a4e	8 weeks ago	849MB				
postgres	12-alpine	57609cf5d1df	2 months ago	230MB				
postgres	14-alpine	955d825eef13	2 months ago	235MB				
postgres	9.6	027ccf656dc1	20 months ago	200MB				
confluentinc/cp-kafka	5.3.1	3ce94ccaeaea	24 months ago	590MB				
PS C:\Users\jerry> docker tag my-app:1.0 288142612271.dkr.ecr.us-east-1.amazonaws.com/my-app:1.0								
PS C:\Users\jerry> docker	images							
REPOSITORY			TAG IMAG	E ID	CREATED	SIZE		
288142612271.dkr.ecr.us-ea	st-1.amazonav	ws.com/my-app		504f8fd65	15 hours ago	126MB		
my-app			1.0 2de	504f8fd65	15 hours ago	126MB		

建立成功

Push 至 AWS ECR

```
PS C:\Users\jerry> docker push 288142612271.dkr.ecr.us-east-1.amazonaws.com/my-app:1.0
The push refers to repository [288142612271.dkr.ecr.us-east-1.amazonaws.com/my-app]
1c5bd2d52c4c: Pushed
5f70bf18a086: Pushed
a5d5e42ffe64: Pushed
c4389ef970ca: Pushed
629960860aca: Pushed
629960860aca: Pushed
8ca4f4055a70: Pushed
8ca4f4055a70: Pushed
1.0: digest: sha256:8358fd0db3b221f869d6baa477362a65577ba1a43105fa5761a5737ce313cae6 size: 1993
```

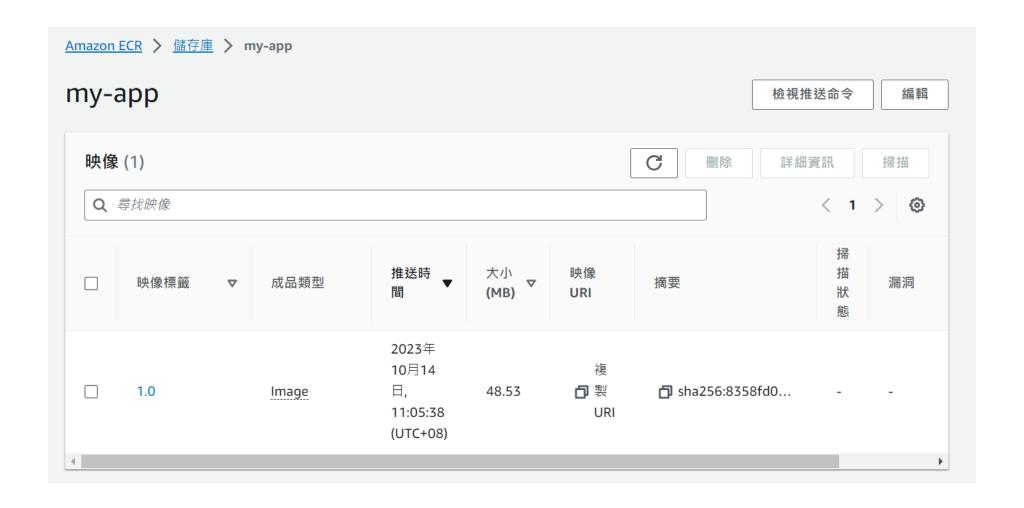
回到AWS ECR儲存庫畫面



點選

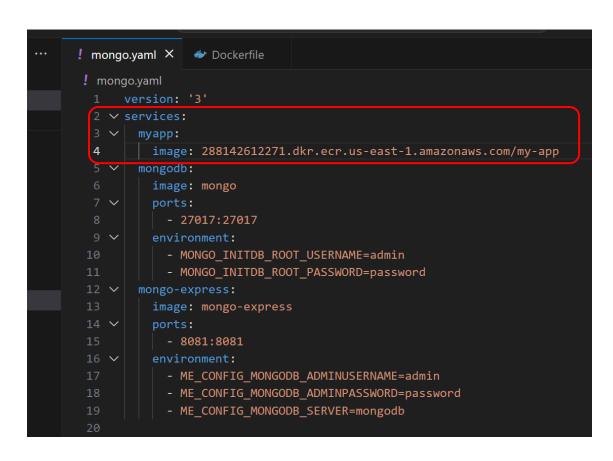
成功推送至 AWS ECR

進入後可看到tag 1.0



3. Deploy our containerized app

修改 .yaml





新增此image的位置

查看相關命令

推送 my-app 的命令

×

macOS / Linux

Windows

確認您已安裝最新版 AWS Tools for PowerShell 和 Docker。如需詳細資訊,請參閱 Amazon ECR 入門 🔀。

使用以下步驟來驗證映像並將映像推送至您的儲存庫。如需了解其他登錄檔驗證方法 (包括 Amazon ECR 憑證協助程式),請參閱登錄檔驗證 🕜。

1. 擷取驗證字符並將 Docker 用戶端驗證至您的登錄檔。

使用 AWS Tools for PowerShell:

登入指令

(Get-ECRLoginCommand).Password | docker login --username AWS --password-stdin 288142612271.dkr.ecr.us-

成功運行AWS ECR上的image並串聯DB

```
PS C:\Users\jerry\Desktop\mastercourse\dataEngineer\dockerCourse\js-docker-demo-app> (Get-ECRLoginCommand).Password | docker login --username AWS --password-stdin 288142612271.dkr.ecr.us-east-1.amazonaws.com
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
PS C:\Users\jerry\Desktop\mastercourse\dataEngineer\dockerCourse\js-docker-demo-app>

PS C:\Users\jerry\Desktop\mastercourse\dataEngineer\dockerCourse\js-docker-demo-app> (Get-ECRLoginCommand).Password | docker login --username AWS --password-stdin 288142612271.dkr.ecr.us-east-1.amazonaws.com
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/acc
```

PS C:\Users\jerry\Desktop\mastercourse\dataEngineer\dockerCourse\js-docker-demo-app> docker-compose -f mongo.yaml up

... done

... done

Attaching to js-docker-demo-app_mongo-express_1, js-docker-demo-app_mongodb_1, js-docker-demo-app_myapp_1

ess-tokens/

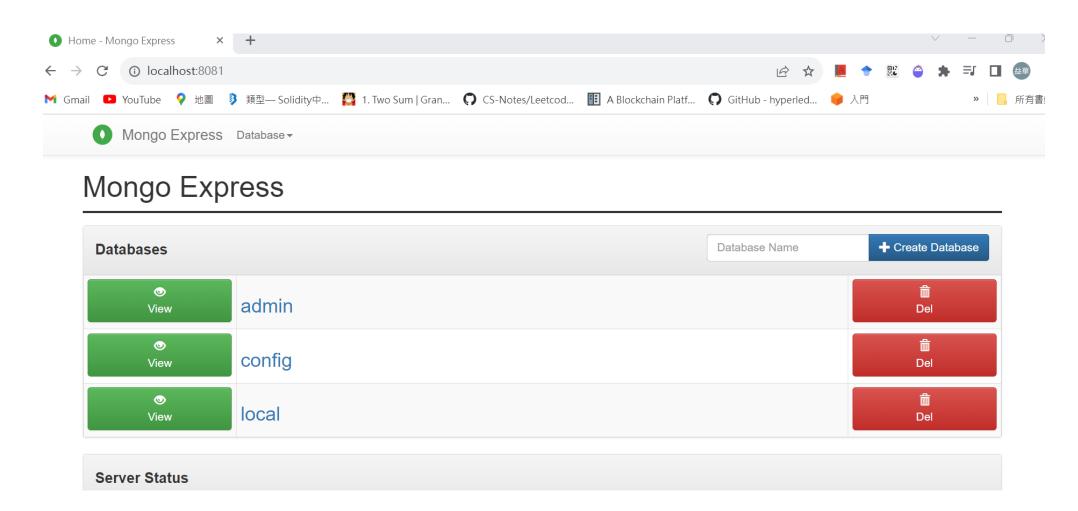
Creating js-docker-demo-app_myapp_1

Creating js-docker-demo-app_mongodb_1

Creating js-docker-demo-app_mongo-express_1 ... done

Docekr-compose 執行 .yaml

開啟測試



End