

課程使用到的AI 工具和軟體

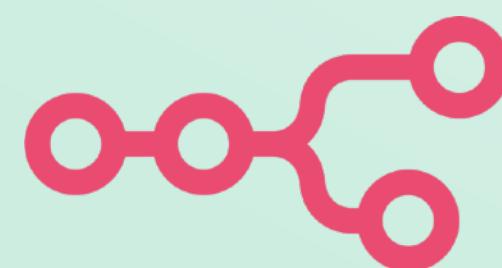


Code Gym

電腦環境一致性



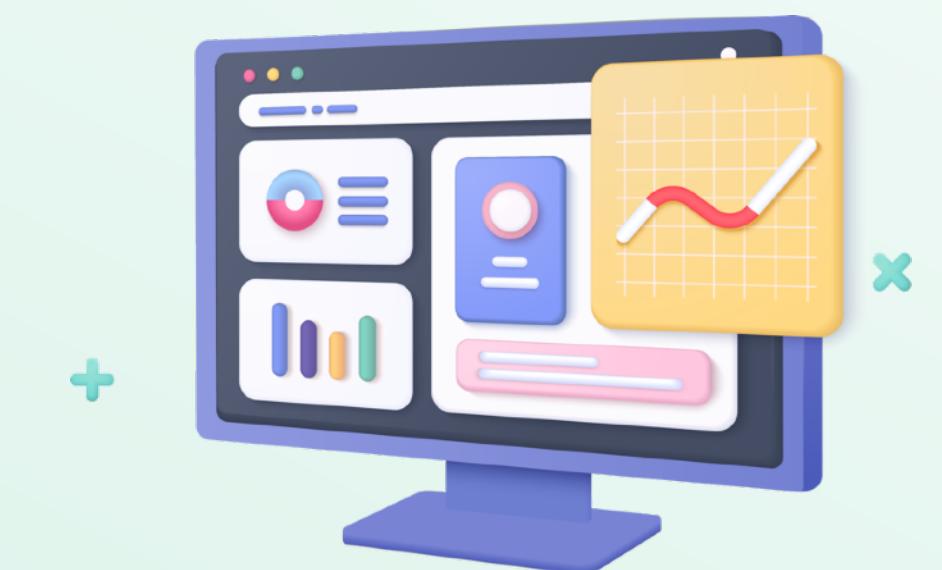
python™



n8n



Ryan 的電腦



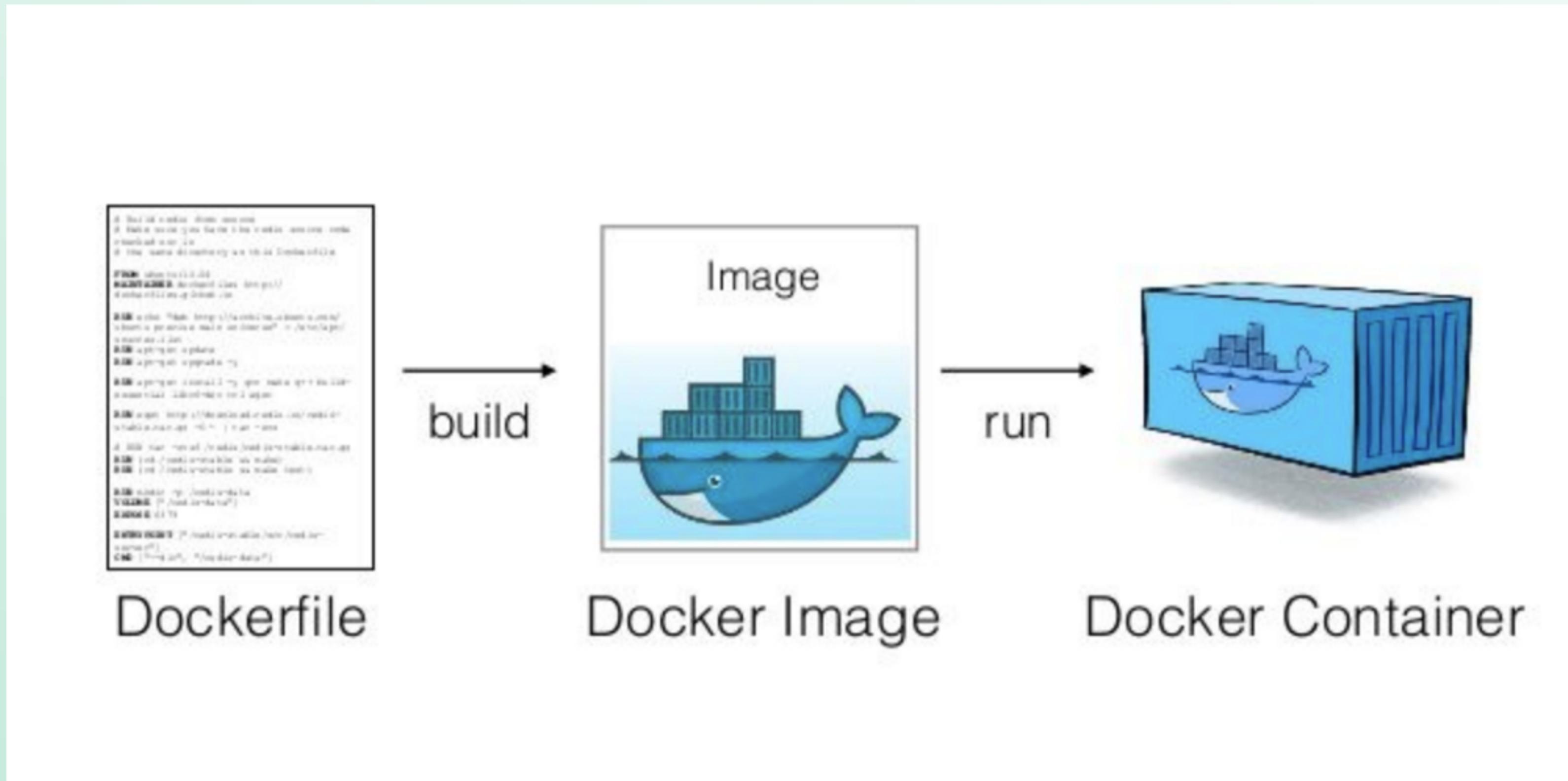
同學 A 的 Mac



同學 B 的 PC



Docker



電腦環境一致性



Ryan 的電腦

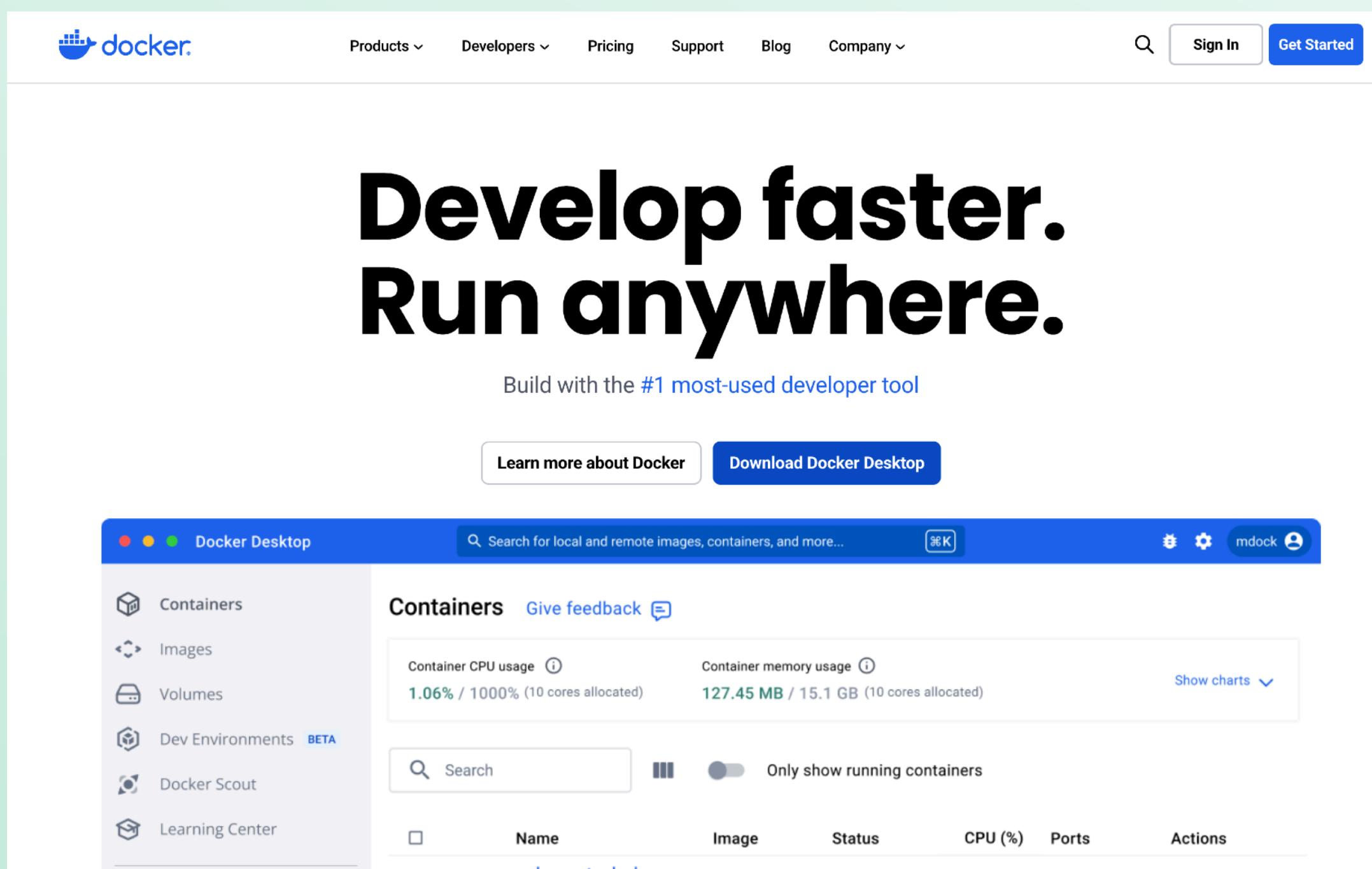


[codegymtech/code_gym-ai-investment](#)



下載安裝Docker

<https://www.docker.com/>



The screenshot shows the Docker website homepage. At the top, there is a navigation bar with links for Products, Developers, Pricing, Support, Blog, and Company, along with a search bar, sign-in button, and get started button. The main headline reads "Develop faster. Run anywhere." Below it, a sub-headline says "Build with the #1 most-used developer tool". There are two buttons: "Learn more about Docker" and "Download Docker Desktop". The bottom part of the screenshot shows the Docker Desktop application interface. It has a sidebar with icons for Containers, Images, Volumes, Dev Environments (BETA), Docker Scout, and Learning Center. The main area is titled "Containers" and shows usage statistics: Container CPU usage (1.06% / 1000%) and Container memory usage (127.45 MB / 15.1 GB). It also includes a search bar, a filter for running containers, and a table with columns for Name, Image, Status, CPU (%), Ports, and Actions.



Docker 系統介面

The screenshot shows the Docker Desktop application window. The left sidebar has a navigation menu with options: Containers, Images (which is selected and highlighted in grey), Volumes, Builds, Models (BETA), MCP Toolkit (BETA), Docker Hub, Docker Scout, and Extensions. The main content area is titled "Images" with a "Local" tab selected. It displays a table of local images. The table columns are: Name, Tag, Image ID, Created, Size, and Actions. There are 6 images listed:

Name	Tag	Image ID	Created	Size	Actions
ai-investment-course	v1.1	ecc145ee133f	1 day ago	4.23 GB	... Delete
codegymtech/code_gym-ai-investment	v1.0	2d9112880d3c	1 day ago	4.23 GB	... Delete
code_gym-ai-investment	v1.0	2d9112880d3c	1 day ago	4.23 GB	... Delete
n8nio/n8n	latest	2537366a0159	13 days ago	1.66 GB	... Delete
<none>	<none>	e7b711cb53e9	3 months ago	1.23 GB	... Delete
moby/buildkit	buildx-stable-1	832fa7aa1eb3	1 month ago	312.28 MB	... Delete
codegymtech/code_gym-ai-investment	v1.1	ddaad577601c	8 hours ago	4.23 GB	... Delete

At the bottom of the table, it says "Showing 7 items". The footer of the Docker Desktop window shows system status: "Engine running", RAM 6.94 GB, CPU 0.20%, Disk: 27.11 GB used (limit 1006.85 GB), Terminal v4.42.1.



執行指令 - 下載環境

- 開啟終端機應用程式
- 目前image 版號 v1.1
- 使用Docker 下載環境
`docker pull codegymtech/code_gym-ai-investment:v1.1`



執行指令 - 啟動n8n

- 開啟終端機應用程式

- 使用Docker 下載環境

```
docker run -d --name codegym-n8n -p 5678:5678 -v n8n_data:/home/node/.n8n codegymtech/code_gym-ai-investment:v1.1 n8n start
```

(如果container 中已經有codegym-n8n的名字，請在指令中更換另一個名字，否則會發生錯誤)

- 使用瀏覽器進入n8n控制台

<http://localhost:5678/>

- 停止n8n

```
docker stop codegym-n8n
```



執行指令 - 執行Python 程式

- 開啟終端機應用程式
- 將路徑切換到放置程式的檔案夾當中

`cd /Users/ryan/demo`

- 執行Python 程式

`docker run -it --rm -p 8501:8501 -v ./workspace codegymtech/code_gym-ai-investment:v1.1 streamlit run 2-3.py --server.address 0.0.0.0`

- 進入程式操作介面

<http://127.0.0.1:8501/>

- 停止python 程式

`Ctrl + C`

