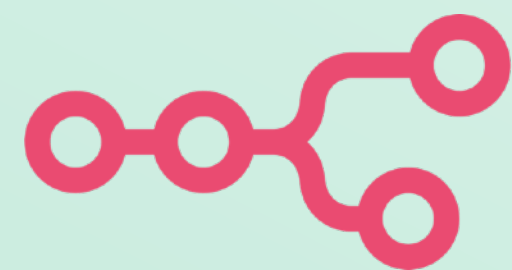


課程使用到的AI 工具和軟體

電腦環境一致性



python™



n8n



Ryan 的電腦



同學 A 的 Mac



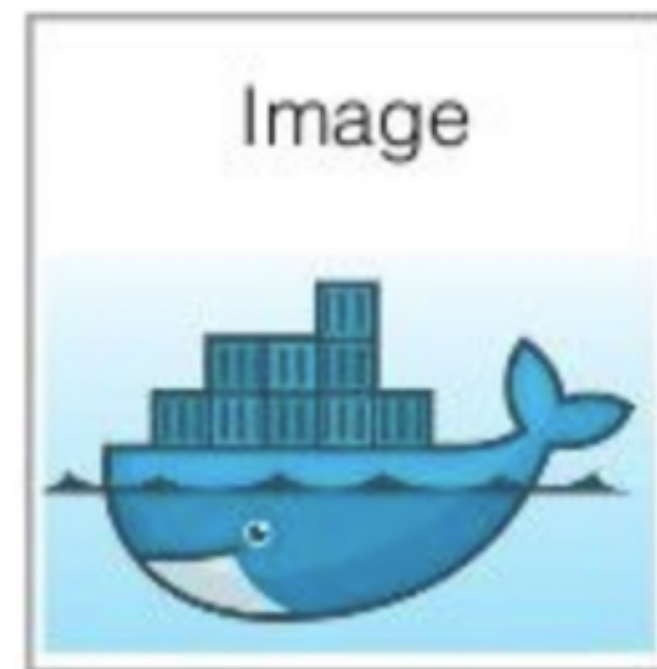
同學 B 的 PC

Docker

```
FROM ubuntu:14.04
MAINTAINER John Doe <john.doe@example.com>
RUN apt-get update
RUN apt-get install -y python
RUN apt-get install -y python-dev
RUN apt-get install -y python-pip
RUN pip install Flask
RUN pip install gunicorn
CMD ["python", "app.py"]
```

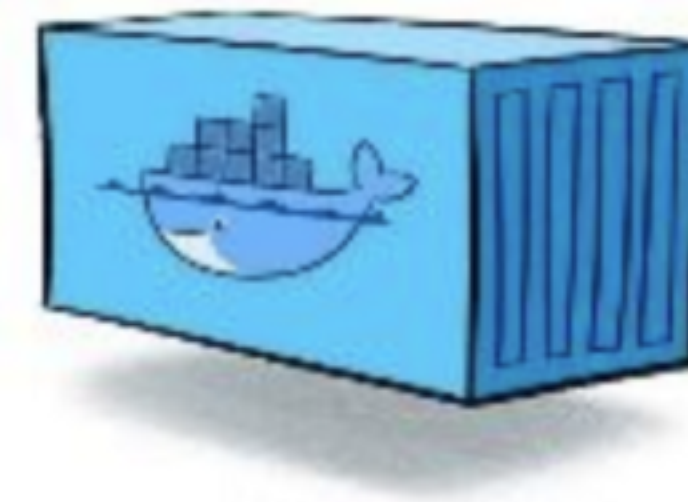
Dockerfile

build



Docker Image

run



Docker Container

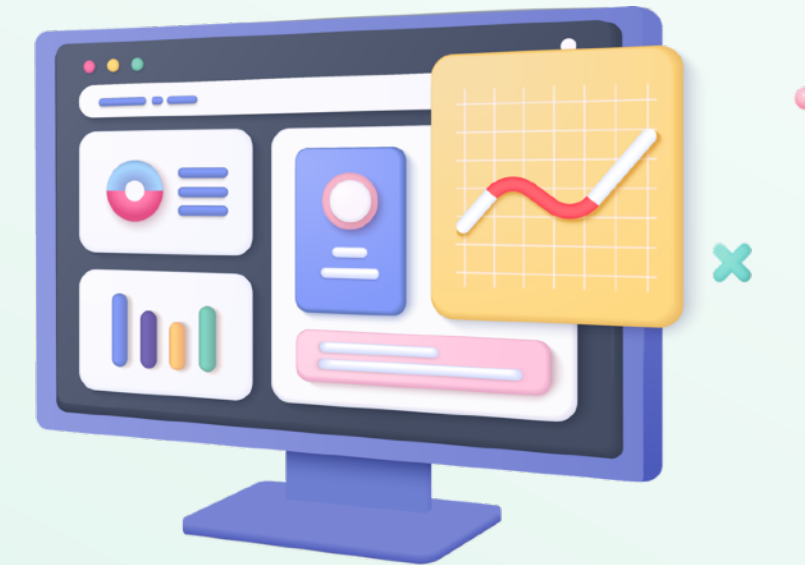
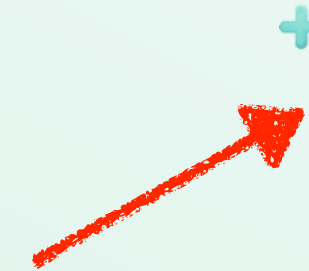
電腦環境一致性



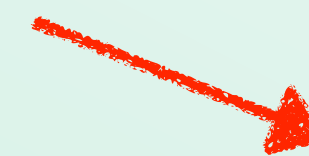
Ryan 的電腦



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



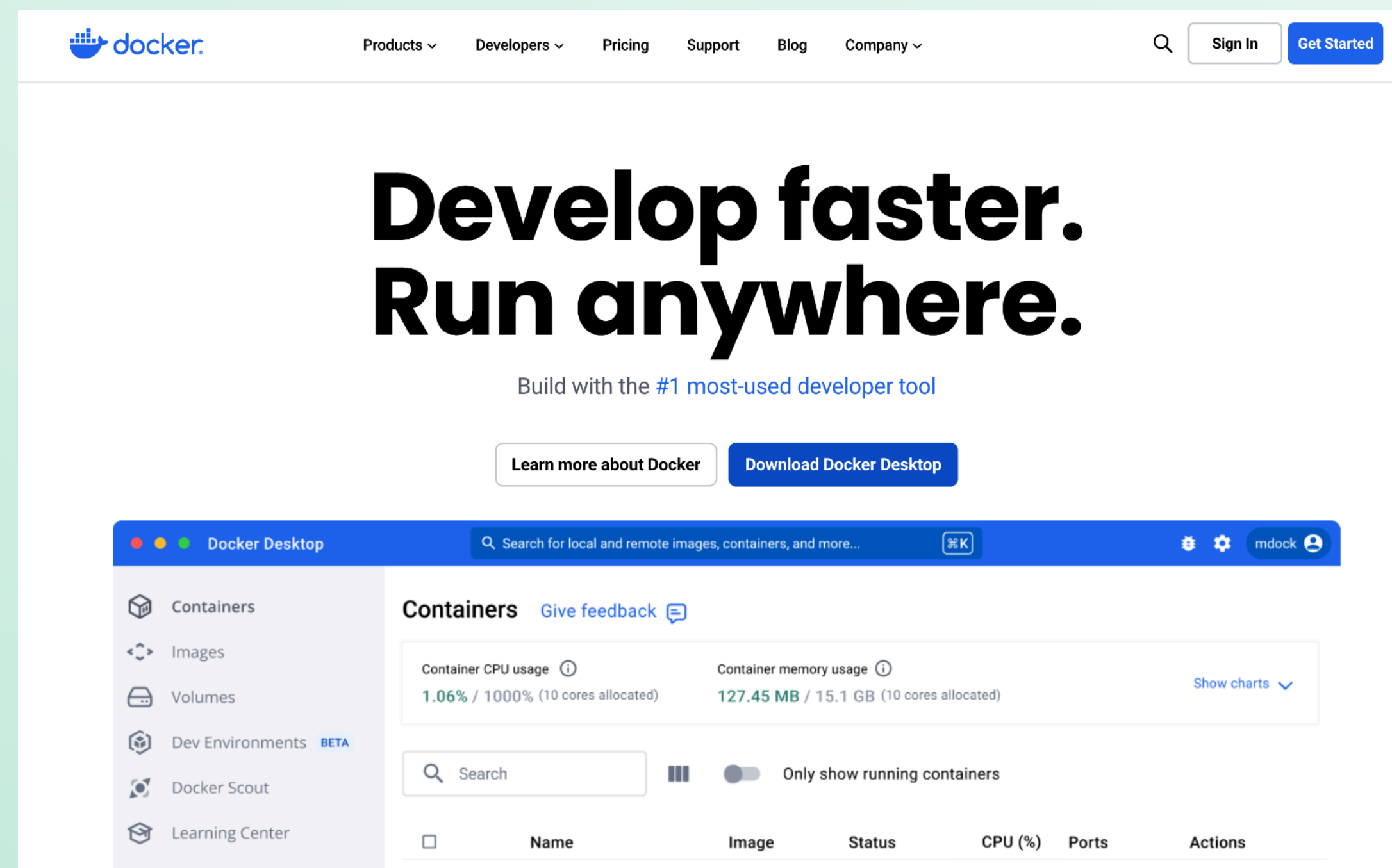
同學 A 的 Mac



同學 B 的 PC

下載安裝Docker

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

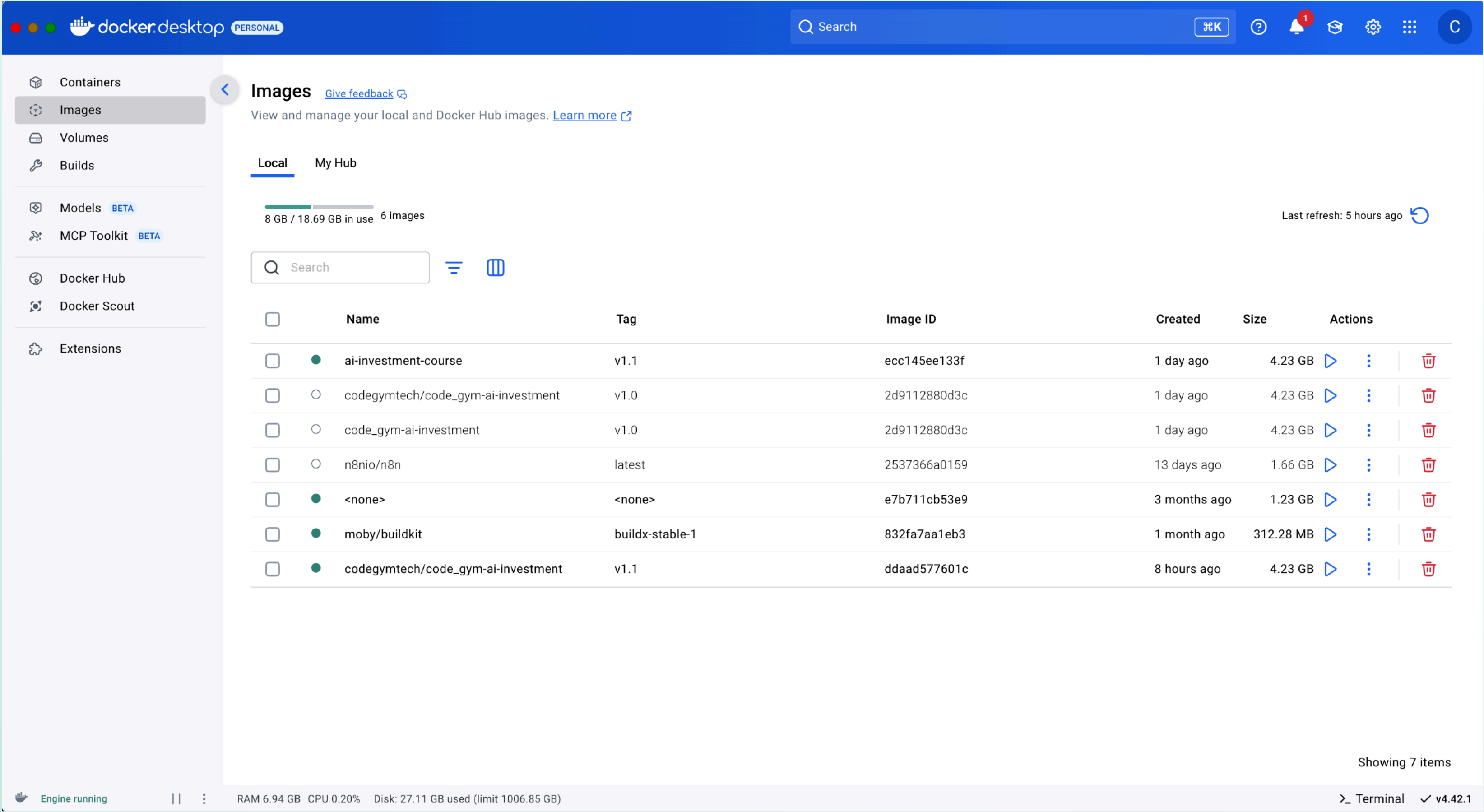


The image shows the Docker website header and a screenshot of the Docker Desktop application. The website header includes the Docker logo, navigation links (Products, Developers, Pricing, Support, Blog, Company), a search icon, and buttons for 'Sign In' and 'Get Started'. The main content area features the slogan 'Develop faster. Run anywhere.' and a subtext 'Build with the #1 most-used developer tool'. Below this are two buttons: 'Learn more about Docker' and 'Download Docker Desktop'.

The Docker Desktop screenshot shows a sidebar with navigation options: Containers, Images, Volumes, Dev Environments (marked BETA), Docker Scout, and Learning Center. The main panel displays 'Containers' with a search bar, a toggle for 'Only show running containers', and a table of running containers. The table has columns for Name, Image, Status, CPU (%), Ports, and Actions. Above the table, there are two summary cards: 'Container CPU usage' showing 1.06% / 1000% (10 cores allocated) and 'Container memory usage' showing 127.45 MB / 15.1 GB (10 cores allocated). A 'Show charts' link is also present.

Name	Image	Status	CPU (%)	Ports	Actions

Docker 系統介面



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`

