

Altos aiGeni 使用手冊

版本：v1.1 Build 13 (1.01.0013)

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一、aiGeni 安裝套件與說明

aiGeni 以數位方式交付。請從 Altos Computing 提供的正式下載入口

<https://www.altoscomputing.com/zh-TW/download>，取得安裝套件。

Altos aiGeni 支援 Arm (arm64) 與 x86_64 (amd64) 平台，請依使用之系統下載相應安裝套件。

安裝 aiGeni 及首次建立模組時需要連上網際網路，以下載必要資源與模組映像檔。下載完成後，不需連接外部服務的模組可在僅有區域網路的環境中使用；若模組連接外部模型、工具、通道或其他網路服務，仍須具備相應網路連線。

Altos aiGeni v1.1 安裝套件 (.zip) 內含：

- 安裝程式 `altos_aigeni_installer_*.run`
- 移除程式 `altos_aigeni_uninstaller.sh`
- 安裝說明 `altos_aigeni_installation-guide.pdf`

Build 13 安裝程式版本為 1.01.0013；實際檔名會依平台標示 arm64 或 amd64。

安裝、產品啟用及移除步驟，請參閱當期套件內附的「Altos aiGeni 安裝說明 (Installation Guide)」。套件名稱、支援平台和操作畫面可能隨版本更新，請以同批次的發行文件為準。

二、軟體架構說明

Altos aiGeni 是由宏碁 (Acer) 集團子公司安圖斯科技股份有限公司 (Altos Computing Inc.) 開發的本地 AI 工具部署平台。使用者可透過圖形化介面啟動和管理 AI 工具；開發者也可建立、重現或自訂容器化工作環境。平台整合 AI 工具、程式開發工具、深度學習框架，以及經過驗證的執行環境與軟體堆疊。

實際效能取決於系統硬體、軟體配置與工作負載。

整體架構概述

aiGeni 採用客戶端–伺服器（Client–Server）與容器化的混合架構，透過模組化及分層介面整合環境部署、Pod 管理、硬體監控與資料保護：

- **aiGeni Portal**：提供模組選擇、環境設定、Pod 狀態、系統日誌、備份及硬體資源監控等操作入口。
- **容器與編排**：由 Kubernetes（K8s）管理 Pod 生命週期，依所選模組或自訂設定建立容器化環境。
- **工具與執行環境**：以模組映像提供 AI 工具、開發工具、深度學習框架及其相依軟體堆疊。
- **資源與資料保護**：即時顯示 GPU、CPU、記憶體與儲存狀態，並以自動備份及一鍵還原保護工作環境。

容器與編排層（Orchestration Layer）

- **Pod 生命週期**：動態建立、執行、釘選及刪除容器實例，並顯示目前狀態。
- **部署設定**：可依工作負載設定連接埠轉發、環境變數、啟動指令與磁碟區。
- **持久化儲存**：可將承載系統的儲存位置掛載至容器，保存專案與工作資料。
- **工具整合**：內建模組與使用者新增的環境皆以容器化方式執行。可用模組與版本以當期發行套件及更新結果為準。
- **NVIDIA 軟體整合**：採用經過驗證的 NVIDIA 軟體堆疊；實際驅動、執行環境與作業系統需求依正式支援矩陣。

資源管理與監控層（Resource & Data Layer）

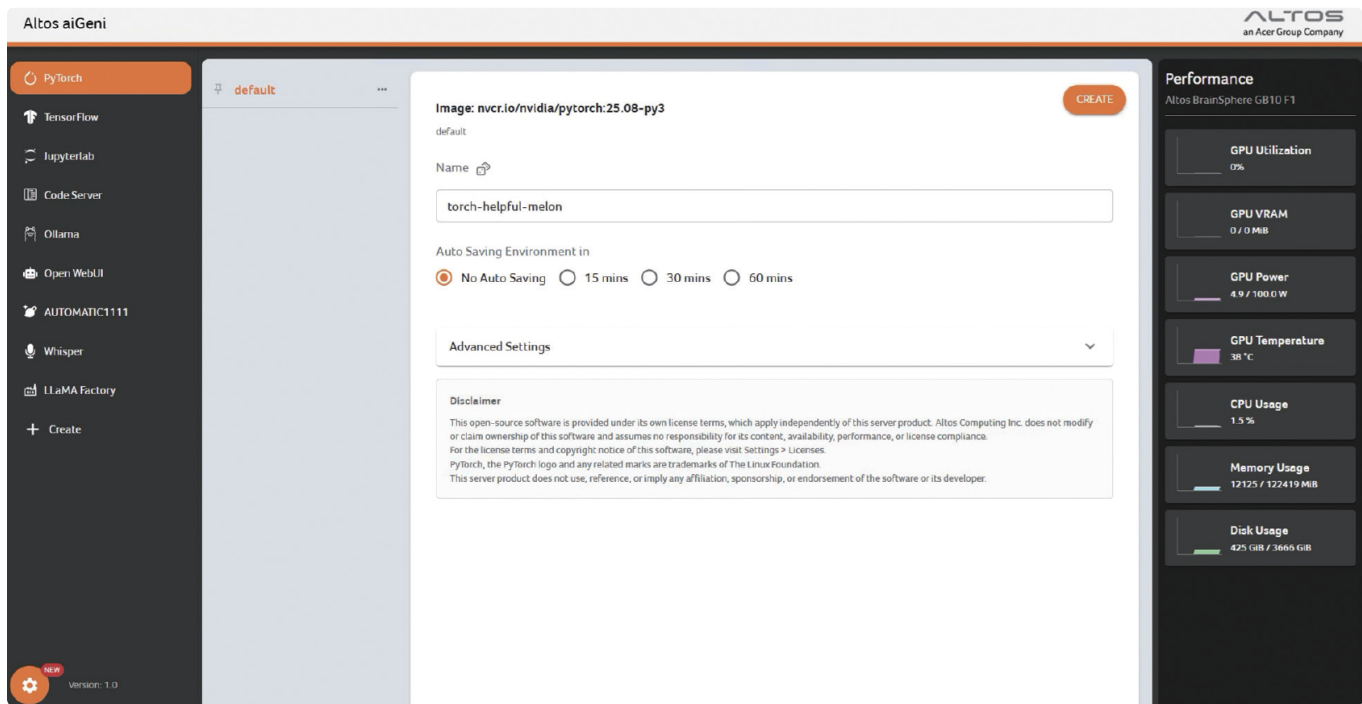
- **資源監控**：顯示 GPU 使用率、GPU VRAM、GPU 功率、GPU 溫度、CPU 使用率、記憶體使用量及磁碟用量。
- **事件與日誌**：記錄 Pod 事件與容器日誌，並提供終端機及日誌下載功能。
- **環境保護**：可設定每 15／30／60 分鐘自動備份，保留最近 1／3／5 份快照，並支援一鍵還原。

架構特點

- **預先整合**：執行環境、軟體堆疊、驅動與框架版本已完成整合和驗證。
- **保留自訂設定**：圖形化介面可設定連接埠、環境變數、啟動指令與儲存空間。
- **本地執行**：aiGeni 管理的工作負載與資料在本地承載系統執行與保存。若模組連接外部模型、工具、通道或其他網路服務，資料流向與存取範圍取決於使用者設定及該外部服務。
- **監控與備份**：資源監控、自動備份和一鍵還原均由同一介面管理。

三、功能模組與介面導航

1. 介面架構與導航



- **左側選單 (Left Sidebar)：**顯示 aiGeni 整合模組及新增環境入口。使用者可選擇模組、切換工作環境或新增自訂環境。選單內容會隨軟體版本、模組更新和側欄設定改變。
- **設定入口：**開啟平台設定與版本資訊。名稱和位置可能隨介面版本調整。
- **主內容區 (Main)：**顯示所選模組或環境的 Pod 列表、執行狀態、部署設定、事件、日誌及資源監控資訊。

各模組的用途、適合工作與建議搭配，請見下一節「AI 模組介紹」。

2. AI 模組介紹

本章用途

本章說明各模組的用途、適用工作和搭配方式，供使用者依工作需求選擇工具。

本章不取代第三方工具的官方手冊。功能、模型相容性和介面會隨 aiGeni 發行套件、模組映像檔或第三方版本調整。

模組快速選擇

使用目的	建議模組	可搭配模組
在瀏覽器中與本地大型語言模型對話	Open WebUI	Ollama
在本地下載、管理及執行大型語言模型	Ollama	Open WebUI、Code Server
將錄音轉成文字	Whisper	Open WebUI、JupyterLab
使用文字提示生成或修改圖像	Automatic1111	—
用互動式筆記本分析資料及進行 AI 實驗	JupyterLab	PyTorch、TensorFlow

使用目的	建議模組	可搭配模組
在瀏覽器中撰寫、測試及管理程式碼	Code Server	PyTorch、TensorFlow、Ollama
使用 PyTorch 建立深度學習專案	PyTorch	JupyterLab、Code Server
使用 TensorFlow 建立機器學習專案	TensorFlow	JupyterLab、Code Server
透過圖形化流程微調大型語言模型	LLaMA Factory	JupyterLab、Code Server
建立能使用工具並執行多步驟工作的 AI 代理	Secure OpenClaw	—

2.1 Open WebUI

這是什麼

Open WebUI 是一套自架式 AI 操作介面，可在瀏覽器中連接及使用不同的 AI 模型服務。對 aiGeni 使用者而言，它主要扮演本地 AI 對話入口：把模型選擇、對話與日常 AI 使用集中在熟悉的圖形化介面中。

適合做什麼

- 與本地大型語言模型進行問答、寫作、摘要、翻譯與內容整理。
- 在同一個介面中選擇不同模型，測試模型對相同提示的回應。
- 讓不熟悉指令列的使用者，以網頁介面開始使用本地 AI。

在 aiGeni 中使用

從 aiGeni 啟動 Open WebUI，即可在瀏覽器進入操作介面。若要使用本地模型，可搭配 Ollama。

建議搭配

- **Ollama**：提供本地模型管理與推論服務。
- **Whisper**：先將語音轉成文字，再交由 AI 模型整理或摘要。

使用前注意

- Open WebUI 本身不是大型語言模型；可使用哪些模型，取決於所連接的模型服務。
- 模型首次下載所需時間與儲存空間依模型及網路環境而異。
- 模型效能與可處理的內容規模取決於承載系統的 GPU、記憶體及實際配置。

官方參考：[Open WebUI Documentation](https://openwebui.com/docs)

2.2 Ollama

這是什麼

Ollama 是用於下載、管理及執行大型語言模型的本地模型服務。它可在本機啟動模型並提供互動或 API 介面，讓其他應用程式呼叫模型進行文字生成與推論。

適合做什麼

- 在本地測試不同的大型語言模型。
- 建立內部問答、內容生成、摘要或程式輔助的模型服務。
- 讓自行開發的程式透過 API 使用本地模型。

在 aiGeni 中使用

從 aiGeni 啟動 Ollama 後，可下載、管理及執行本地模型，也可供其他應用程式透過 API 呼叫。需要瀏覽器對話介面時，可搭配 Open WebUI。

建議搭配

- **Open WebUI**：提供瀏覽器中的模型選擇與對話介面。
- **Code Server**：開發呼叫 Ollama API 的應用程式。

使用前注意

- 模型檔案通常占用大量儲存空間，下載前應確認可用容量。
- 不同模型具有不同的授權條款、記憶體需求與使用限制，應查閱模型發布者的說明。
- 模型能否順利執行及其回應速度，取決於模型大小、量化方式與承載硬體。

官方參考：[Ollama Documentation](#)

2.3 Whisper

這是什麼

Whisper 是 OpenAI 發布的通用語音辨識模型，可進行多語言語音辨識、語音翻譯及語言辨識。它能把音訊內容轉成可搜尋、編輯及後續分析的文字。

適合做什麼

- 會議錄音、訪談、課程與語音筆記轉錄。

- 將語音內容整理成逐字稿，供後續摘要、翻譯或知識整理。
- 建立本地語音資料處理流程。

在 aiGeni 中使用

從 aiGeni 啟動 Whisper 後，匯入音訊進行語音辨識，再將輸出文字用於編輯、搜尋、摘要或分析。

建議搭配

- **Open WebUI／Ollama**：將轉錄文字交由大型語言模型摘要、分類或整理。
- **JupyterLab**：進一步分析、清理或批次處理轉錄結果。

使用前注意

- 轉錄品質會受到錄音清晰度、背景噪音、口音、專有名詞及所選模型影響。
- 長音訊的處理時間及記憶體需求會隨模型與硬體配置改變。
- 涉及個人或機密語音時，仍應依組織規範管理原始音訊及輸出文字。

官方參考：[OpenAI Whisper](#)

2.4 Automatic1111

這是什麼

Automatic1111（Stable Diffusion WebUI）是一套以瀏覽器操作的圖像生成介面，可使用 Stable Diffusion 類模型進行文字生成圖像、圖像轉換、局部修改及放大等工作。

適合做什麼

- 依文字提示生成概念圖、插圖、設計草稿與視覺素材。
- 以既有圖片產生風格或內容變化。
- 測試不同模型、提示詞與生成參數對結果的影響。

在 aiGeni 中使用

從 aiGeni 啟動 Automatic1111，即可在瀏覽器使用 Stable Diffusion WebUI，選擇模型並設定提示詞與生成參數。可用模型、擴充功能和介面可能因模組版本而異。

建議搭配

Automatic1111 可獨立使用。需要撰寫提示詞或整理圖像說明時，可另用 Open WebUI 與本地語言模型；兩者不一定直接串接。

使用前注意

- 可生成的風格與品質取決於模型、提示詞、參數及 GPU 資源。
- 使用第三方模型、LoRA 或其他素材前，應確認其授權與使用限制。
- 圖像生成功能涉及較高 GPU 記憶體用量；可用尺寸與速度依承載硬體而異。

官方參考：[AUTOMATIC1111 Stable Diffusion WebUI](#)

2.5 JupyterLab

這是什麼

JupyterLab 是以瀏覽器操作的互動式運算環境，整合 Notebook、文字編輯器、終端機和檔案瀏覽器。Notebook 可同時呈現程式碼、說明文字、資料、圖表與其他執行結果。

適合做什麼

- 資料探索、清理、分析與視覺化。
- AI 模型實驗、教學示範及研究紀錄。
- 逐步執行程式碼並保留輸出，建立可分享、可重現的分析文件。

在 aiGeni 中使用

從 aiGeni 啟動 JupyterLab，可在瀏覽器建立或開啟 Notebook、管理檔案、執行程式碼並查看結果。需要深度學習框架時，可搭配 PyTorch 或 TensorFlow 環境。

建議搭配

- **PyTorch／TensorFlow**：建立及測試深度學習模型。
- **Whisper**：分析或批次處理語音轉錄結果。

使用前注意

- Notebook 內的程式碼會使用目前環境的運算與檔案權限，執行外部程式碼前應先確認來源。
- 新增套件可能改變環境相依關係；重要實驗應保留套件版本及環境資訊。
- 儲存重要工作前，請先確認檔案位於持久化儲存空間，並確認該環境的備份設定。

官方參考：[JupyterLab Documentation](#)

2.6 Code Server

這是什麼

Code Server (code-server) 是在瀏覽器中使用的 Visual Studio Code 型開發介面。程式碼、終端機與運算工作在 aiGeni 承載系統上執行，瀏覽器負責顯示和操作。

適合做什麼

- 撰寫、測試及除錯 Python、JavaScript 或其他程式專案。
- 開發使用本地模型或 AI API 的應用程式。
- 透過瀏覽器進入一致的開發環境，管理程式碼與專案檔案。

在 aiGeni 中使用

從 aiGeni 啟動 Code Server，可在瀏覽器編輯程式碼、使用終端機並管理專案檔案。若專案包含服務程式，可設定連接埠、環境變數、啟動指令與儲存空間。

建議搭配

- **PyTorch／TensorFlow**：開發深度學習程式。
- **Ollama**：建立呼叫本地語言模型的應用。
- **LLaMA Factory**：準備資料、檢查設定或開發微調後的應用流程。

使用前注意

- code-server 與桌面版 Microsoft Visual Studio Code 並非完全相同，部分擴充套件與 Marketplace 支援可能不同。
- 若開發中的服務需要對外開放連接埠，應遵循組織的網路與存取控制政策。
- 專案檔案、金鑰及環境變數應存放在受控位置，不應直接寫入公開程式碼。

官方參考：[code-server Documentation](#)

2.7 PyTorch

這是什麼

PyTorch 是支援 CPU 與 GPU 的深度學習張量運算函式庫，提供建立、訓練及執行神經網路所需的工具。它常用於研究、原型開發、電腦視覺、自然語言處理與生成式 AI 專案。

適合做什麼

- 建立及訓練深度學習模型。
- 載入既有模型進行推論、評估或二次開發。

- 進行需要彈性程式控制的 AI 研究與原型實驗。

在 aiGeni 中使用

啟動 PyTorch 模組後，可載入資料與模型進行訓練、推論或評估。互動式實驗可搭配 JupyterLab；完整程式專案可使用 Code Server 管理。

建議搭配

- **JupyterLab**：互動式模型實驗、資料分析與教學。
- **Code Server**：建立較完整、可維護的深度學習專案。

使用前注意

- PyTorch 是開發框架，不是可直接使用的 AI 模型；使用者仍需準備程式、資料或預訓練模型。
- 模型訓練與推論的資源需求差異很大，應依資料量、模型架構與精度設定評估。
- 若自行更新框架或 CUDA 相關套件，可能破壞原本驗證過的相依組合。

官方參考：[PyTorch Documentation](https://pytorch.org/docs/stable/index.html)

2.8 TensorFlow

這是什麼

TensorFlow 是端到端機器學習平台，提供張量運算、自動微分、GPU 與分散式處理，以及模型建立、訓練、儲存與匯出等能力。

適合做什麼

- 建立、訓練及評估機器學習與深度學習模型。
- 使用 Keras 等高階介面快速建立模型原型。
- 開發需要後續儲存、匯出或部署的模型流程。

在 aiGeni 中使用

啟動 TensorFlow 模組後，可建立、訓練、評估或匯出模型。需要逐步執行並觀察結果時，可搭配 JupyterLab；完整程式專案可使用 Code Server 管理。

建議搭配

- **JupyterLab**：逐步建立模型、觀察訓練結果及製作教學內容。
- **Code Server**：開發、測試與管理完整 TensorFlow 專案。

使用前注意

- TensorFlow 是機器學習開發平台，不是預先訓練完成的單一模型。
- 訓練資料、模型架構及參數設定會直接影響結果與運算資源需求。
- 若自行升級 TensorFlow、驅動或相關套件，應先確認與目前 aiGeni 環境的相容性。

官方參考：[TensorFlow Guide](#)

2.9 LLaMA Factory

這是什麼

LLaMA Factory 是大型語言模型微調工具。其 WebUI 介面涵蓋訓練設定、評估與預測、對話測試和模型匯出。

適合做什麼

- 使用自有資料調整大型語言模型的回應方式或特定領域能力。
- 以圖形化介面設定訓練參數並觀察微調結果。
- 評估、測試及匯出微調後的模型或 Adapter。

在 aiGeni 中使用

啟動 LLaMA Factory 後，可在 WebUI 選擇模型、設定資料與訓練參數，並進行評估、對話測試或模型匯出。支援的模型、資料格式與訓練選項可能隨模組版本調整。

建議搭配

- **JupyterLab／Code Server**：準備、清理及檢查訓練資料與設定。
- **PyTorch**：LLaMA Factory 的模型訓練流程建立在相關深度學習工具鏈上；若需進階自訂，可使用 PyTorch 環境進一步開發。

使用前注意

- 微調前應確認基礎模型與資料集的授權、使用限制及個資處理規範。
- 訓練所需 GPU 記憶體、儲存空間與時間取決於模型、資料量與微調設定。
- 匯出後的模型能否由其他推論工具直接使用，取決於模型格式、量化方式及目標工具的相容性。

官方參考：[LLaMA Factory WebUI Documentation](#)

2.10 Secure OpenClaw

這是什麼

OpenClaw 是自架式 AI 代理平台，包含代理執行迴圈、工具連接、提示組裝、工作空間與工作階段管理。代理可依設定呼叫工具並執行多步驟任務。Secure OpenClaw 是 aiGeni 在 OpenClaw 基礎上加入安全控管的整合模組，用於建立受控的部署與執行環境。

適合做什麼

- 建立能依任務規劃步驟、使用工具並完成工作的 AI 代理。
- 測試本地 AI 代理、自動化流程與工具整合。
- 在需要資料控制與安全邊界的環境中執行代理型 AI 應用。

在 aiGeni 中使用

從 aiGeni 啟動 Secure OpenClaw，即可部署及測試 AI 代理、工具連接與多步驟任務。開始前，請依使用情境設定模型服務、工具、通道與權限。

建議搭配

Secure OpenClaw 可依代理任務連接模型服務、工具與通道。可用項目取決於環境設定與組織允許的存取範圍。

使用前注意

- AI 代理可能存取檔案、工具、網路或外部服務，請依最小權限原則配置並確認每項操作的授權範圍。
- 啟用工具或外部服務前，請確認其資料存取範圍、認證方式及可能執行的操作。
- 金鑰、密碼與其他認證資訊應存放在受控位置，不應直接寫入提示詞、公開程式碼或共用檔案。
- 安全控管無法消除所有代理風險；使用者仍須依組織政策管理資料、認證資訊與工具權限。

官方參考：[OpenClaw Agent Runtime](#)

3. Pod 管理

- **Pod 列表：**顯示目前建立的容器實例及執行狀態，也可在列表中釘選或刪除環境。
- **自動備份：**可選擇每 15／30／60 分鐘備份環境，並保留最近 1／3／5 份快照；需要時可從備份還原工作環境。
- **詳細配置：**
 - **連接埠轉發 (Port Forwarding)：**設定容器服務與外部存取所使用的連接埠。

- **環境變數 (Environment Variables)**：檢視或設定模組執行時所需的環境變數。
- **啟動指令 (Command)**：檢視或設定容器啟動時執行的指令。
- **磁碟區 (Volumes)**：將承載系統的儲存位置掛載至容器，以保存專案、模型及工作資料。
- **事件 (Events)**：顯示 Pod 生命週期及執行相關事件，並可重新整理資訊。
- **日誌 (Logs)**：顯示容器執行日誌。日誌頁面可開啟終端機或下載檔案；不同模組顯示的設定和操作不盡相同。

Sample：建立並檢查 PyTorch 工作環境

以下範例示範建立 PyTorch 工作環境並確認其運行狀態：

1. 從左側選單選擇 **PyTorch**，輸入環境名稱（例如 `pytorch-sample`）後建立工作環境。
2. 在 Pod 列表確認環境已建立，並檢查狀態是否顯示為 **Running**。若需要保留此環境，可將其釘選。
3. 若要保護開發進度，可將自動備份設為每 30 分鐘執行，並保留最近 3 份快照；實際設定可依工作需求調整。
4. 若環境未正常啟動，先查看 **Events** 確認生命週期事件，再查看 **Logs** 檢查容器輸出；需要進一步診斷時，可開啟終端機或下載日誌。
5. 若工作環境內的服務需要對外存取，請依該服務實際使用的監聽連接埠設定 Port Forwarding，不要直接套用其他環境的連接埠數值。

4. 資源監控 (Performance Monitoring)

監控項目	說明
GPU 使用率	顯示 GPU 的即時計算負載。
GPU VRAM	顯示 GPU 記憶體的使用量與可用容量。
GPU 功率	顯示 GPU 的即時功率使用狀態。
GPU 溫度	顯示 GPU 的即時溫度。
CPU 使用率	顯示 CPU 的即時負載。
記憶體使用量	顯示系統記憶體的使用量與可用容量。
磁碟用量	顯示儲存空間的使用量與可用容量。

可執行的模型和工作負載規模取決於承載硬體與軟體配置。請查閱承載機型的正式規格，並以預計使用的工作負載進行測試。

四、法律、隱私與授權聲明

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更新日期：2025 年 11 月 6 日

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