

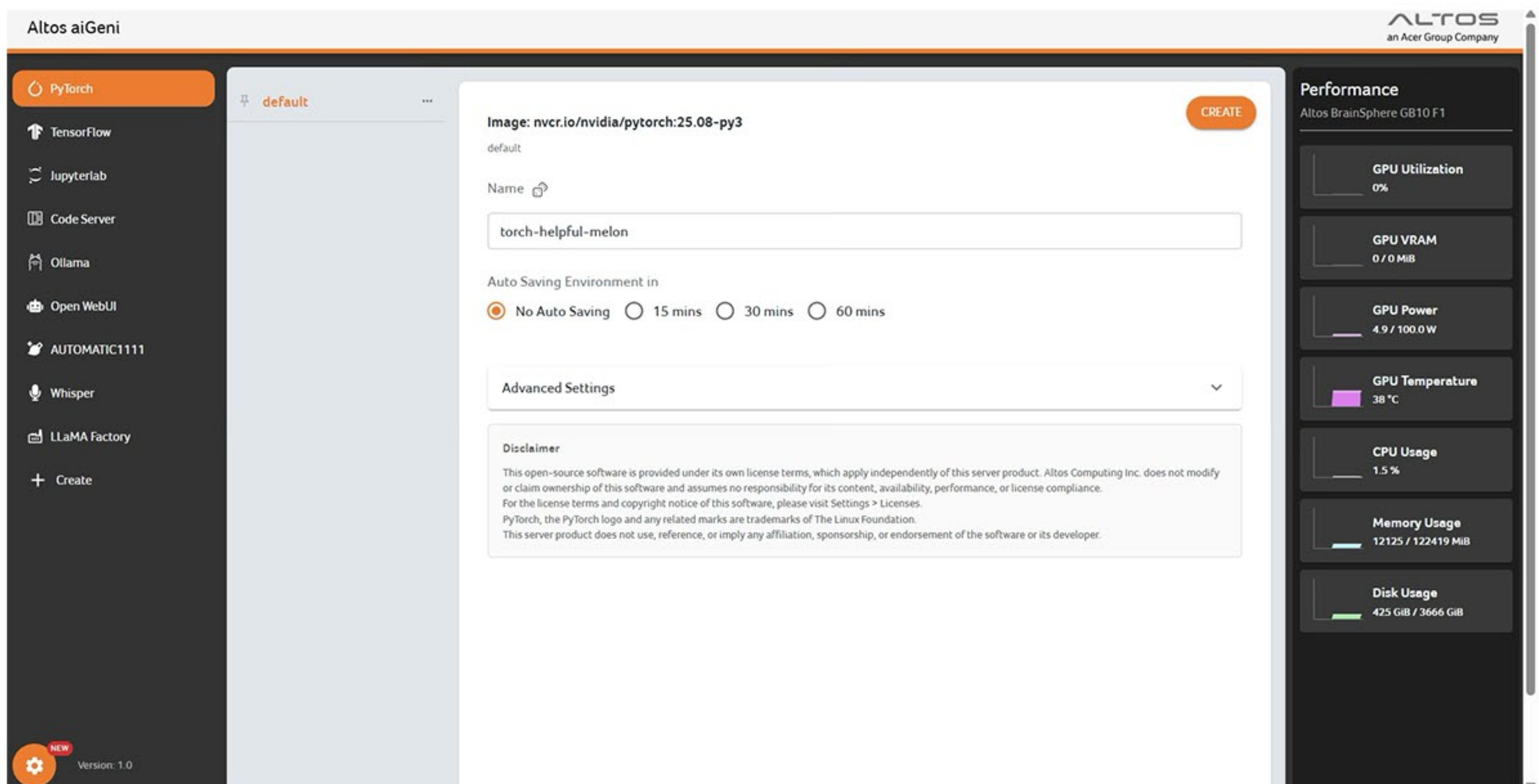
ALTOS
an Acer Group Company

Altos aiGeni

使用手冊

Altos aiGeni 軟體架構說明

Altos aiGeni 是 Acer 集團旗下 Altos Computing 開發的 AI / ML（人工智慧 / 機器學習）雲端開發平台軟體，主要提供容器化 GPU 計算環境的管理、部署與監控。它專注於簡化 AI 開發流程，讓開發者能快速啟動如 PyTorch、Jupyter 等環境。Altos aiGeni 的架構採用模組化、UI 分層設計，整合前端使用者介面、推論伺服器服務、容器與資源管理層，備份設定是以每 15 / 30 / 60 分鐘自動儲存，保留最後 1 / 3 / 5 份備份。以下是詳細架構分解。



整體架構概述

Altos aiGeni 採用客戶端-伺服器（Client-Server）+ 容器化的混合架構，強調可擴展性與自動化：

- 網頁介面：包含前端 UI、容器環境設定與整合備份說明、硬體資源監控。
 - 核心目標：快速容器資源部署設定，減少學習曲線，備份開發環境，讓開發者專注應用開發。
 - 部署環境：整合 Altos BrainSphere™ AI 硬體（工作站），管理 GPU / CPU / 記憶體 / 儲存。
- 關鍵技術：Kubernetes 容器 Pod 管理、推論伺服器、硬體即時監控，自動開發環境備份。

容器與編排層（Orchestration Layer）

- 技術棧：Kubernetes (K8s)，管理 Pod（容器實例）生命週期。
- 關鍵功能：
 - Pod 部署：動態建立環境（如 "torch-energetic-plantain" Pod），指令如 `/bin/bash -c "jupyter lab --ip=0.0.0.0"`，環境變數 `NVIDIA_VISIBLE_DEVICES: all`

- 埠轉發：e.g., 8888 → NodePort 31616，支援遠端存取。
 - 永久化：磁碟掛載（e.g., /home/altos/pytorch → /workspace/data）。
 - 自動備份環境變動 image（每 15 / 30 / 60 分鐘自動儲存，保留最後 1 / 3 / 5 份備份）。
- 整合：支援 AI 框架堆疊（PyTorch、TensorFlow、Jupyter、Ollama、Open WebUI、Automatic1111、Whisper、LLaMA Factory、Code Server等，也能讓使用能自行新增），透過 Docker 映像自動部署。

資源管理與監控層（Resource & Data Layer）

- 監控組件：顯示即時指標（GPU、功耗、溫度、CPU、記憶體、磁碟）。
- 事件與日誌：Pod 事件追蹤、容器日誌（Jupyter 啟動記錄），支援 CLI 存取。

架構優點

- 優點：模組化易擴展（新增選單）、減少開發環境建立時間。

以下是其主要功能模組的詳細說明：

1. 整體架構與導航

- 左側邊（Left Sidebar）：
 - AI 開發環境選項，用戶可點擊切換或新增 Pod：

選項	描述	圖示簡述
PyTorch	啟動 PyTorch 環境，用於深度學習模型訓練。	
TensorFlow	啟動 TensorFlow 環境，支援 Google 的 ML 框架。	
Jupyterlab	啟動 JupyterLab，互動式筆記本環境。	
Code Server	啟動 Code Server 遠端開發環境。	
Ollama	啟動 Ollama（本地 LLM 模型運行工具）。	
Open WebUI	啟動 Open WebUI（開源 Web 介面，用於 LLM 互動）。	
Automatic1111	啟動 Stable Diffusion WebUI（圖像生成工具）。	
Whisper	啟動 OpenAI Whisper（語音轉文字工具）。	
LLaMA Factory	啟動 LLaMA 模型微調工廠。	
新增	用於建立新環境。	

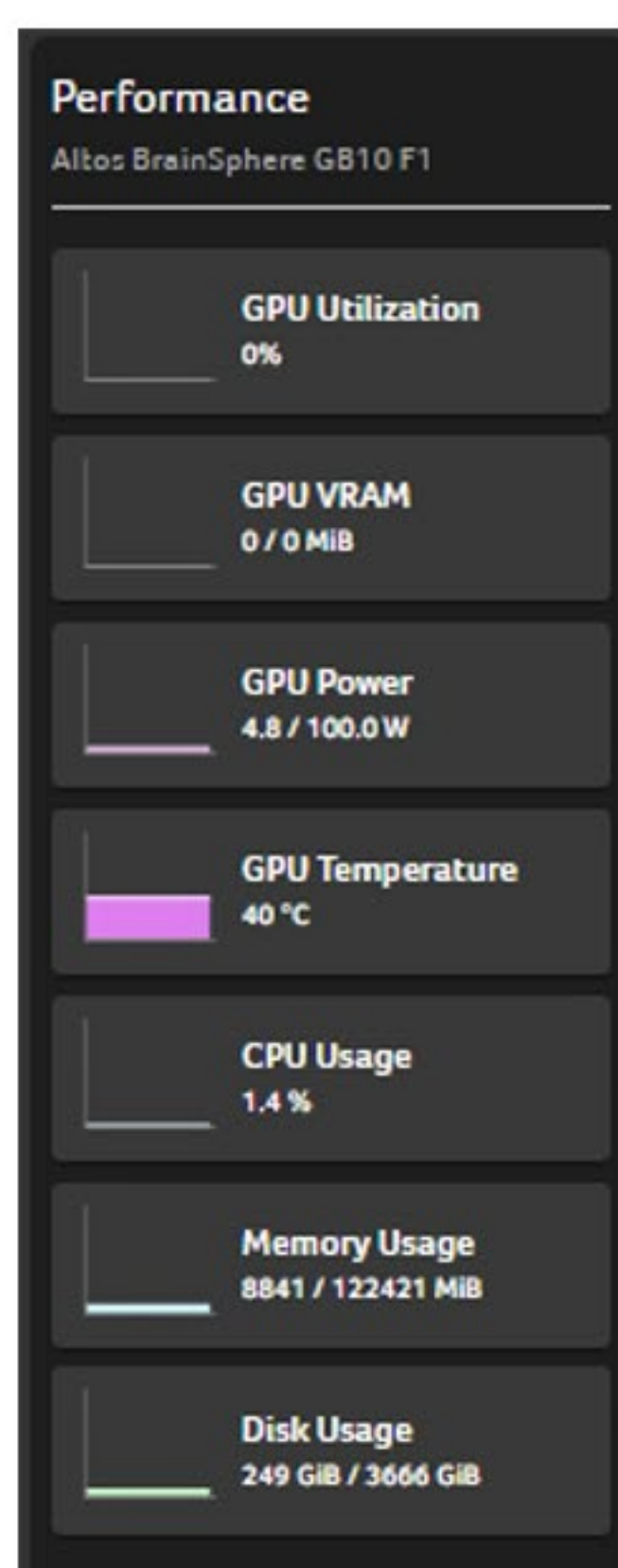
- 底部有設定圖示（齒輪），連結到 /settings 頁面；顯示版本 "Version: 1.0"。
- 主內容區（Main）：顯示選中環境的詳細資訊，包含 Pod 列表、資源配置與監控。

2. Pod 管理

- Pod 列表：顯示當前運行中的容器實例，例如 "torch-energetic-plantain"（PyTorch 環境）。
 - 狀態：Running（綠色圓圈圖示），可刪除（垃圾桶按鈕）。
 - 備份開發者環境設定：每 15 / 30 / 60 分鐘自動儲存，保留最後 1 / 3 / 5 份備份。
 - 📌：釘選需要保留環境。
- 詳細配置：
 - 連接埠轉發（Port Forwarding）：例如 :8888（Jupyter）→ NodePort :31616。支援編輯（鉛筆圖示）。
 - 環境變數（Environment Variables）：如 NVIDIA_VISIBLE_DEVICES: all（啟用所有 GPU）。
 - 指令（Command）：顯示啟動命令，例如 /bin/bash -c "jupyter lab --ip=0.0.0.0 --allow-root --no-browser --NotebookApp.token=""（無密碼 Jupyter Lab
 - 磁碟區（Volumes）：掛載路徑，如 /home/altos/pytorch → /workspace/data（持久化儲存）。
- 事件（Events）：顯示 Pod 相關事件，目前 "No events"；有重新整理按鈕。
- 日誌（Logs）：顯示容器日誌，例如 Jupyter Lab 啟動記錄（包含擴充套件載入、警告如無 Node.js 建置狀態）。支援開啟終端機（終端圖示）或下載（箭頭圖示）。

3. 資源監控（Performance Monitoring）

- 監控項目：



監控項目	當前數值	說明
GPU 使用率	0%	顯示 GPU 計算負載。
GPU VRAM	0 / 0 MiB	GPU 記憶體使用（目前未偵測）。
GPU 功耗	11.2 / 100.0 W	GPU 功率消耗。
GPU 溫度	40 °C	GPU 熱度監控。
CPU 使用率	1.4 %	CPU 負載。
記憶體使用量	8841 / 122421 MiB	系統 RAM 使用。
磁碟用量	249 GiB / 3666 GiB	儲存空間佔用。

- 硬體規格：Altos BrainSphere GB10 F1。

4. 其他功能與注意事項

首次開機資訊:

預設帳號: altos

預設密碼: Altosgb10f1



Altos aiGeni 使用手冊下載

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更新日期：2025年11月6日

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3. 郵寄書面至本公司地址221421新北市汐止區新台五路1段88號6樓。

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