

**ALTOS**  
an Acer Group Company

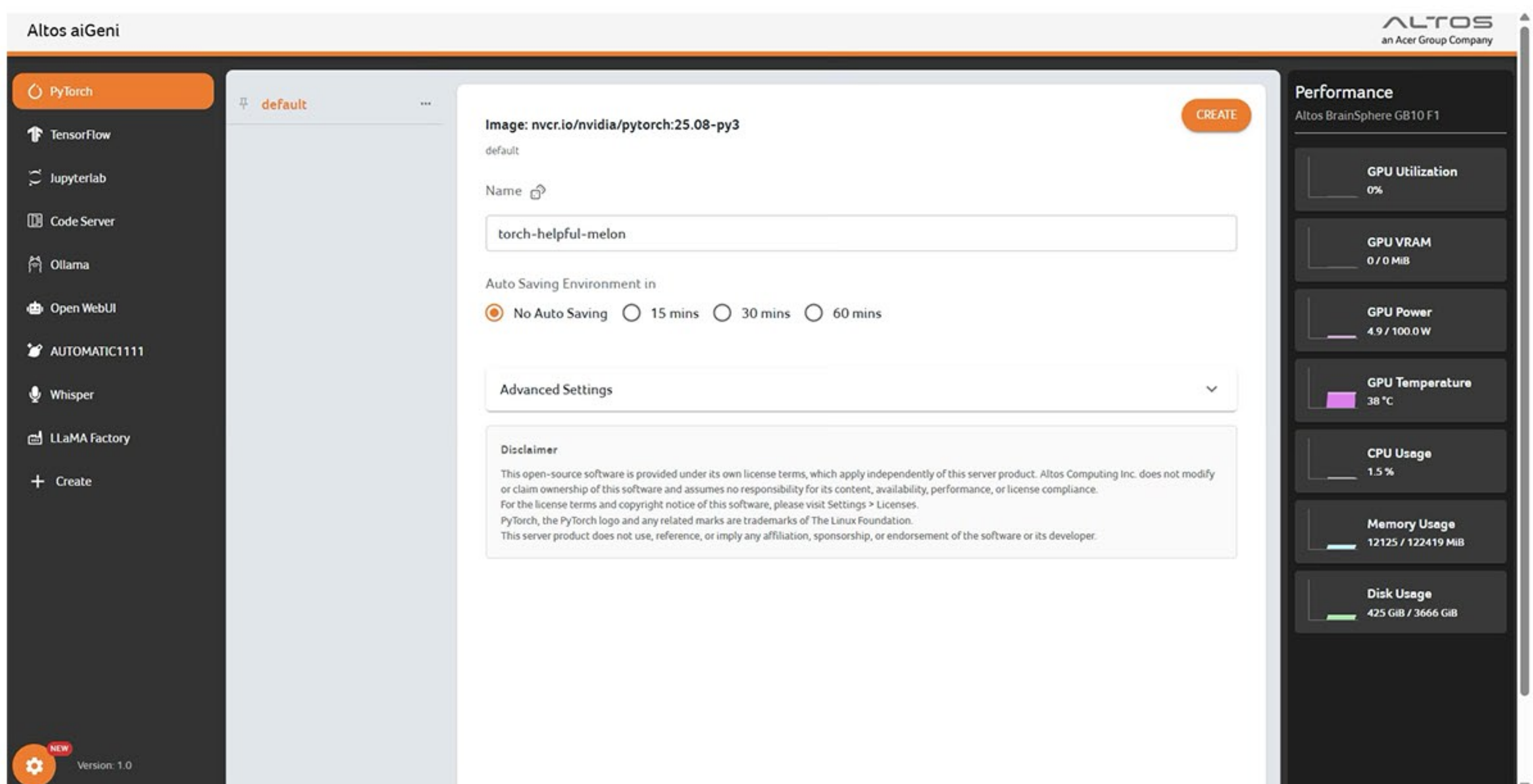
# Altos aiGeni

 User Manual

# Altos aiGeni Software Architecture Overview

Altos aiGeni is an AI/ML (Artificial Intelligence / Machine Learning) cloud development platform developed by Altos Computing, a subsidiary of the Acer Group. It primarily provides management, deployment, and monitoring for containerized GPU computing environments. The platform is designed to simplify AI development workflows, enabling developers to quickly launch environments such as PyTorch and Jupyter.

Altos aiGeni adopts a modular, layered UI architecture, integrating the front-end user interface, inference services, container management, and resource orchestration layers. Backup settings support automatic snapshots every 15, 30, or 60 minutes, preserving the latest 1, 3, or 5 backup versions. Below is a detailed breakdown of the system architecture.



## Overall Architecture Overview

**Altos aiGeni adopts a hybrid Client-Server and container-based architecture designed for scalability and automation:**

- **Web Interface:** Includes the front-end UI, container environment configuration, integrated backup settings, and hardware resource monitoring.
- **Core Objectives:** Enable rapid deployment and configuration of containerized resources, reduce the learning curve, and provide environment backup—allowing developers to focus on application development.

- **Deployment Environment:** Integrates with Altos BrainSphere™ AI hardware (workstations) to manage GPU, CPU, memory, and storage resources.
- **Key Technologies:** Kubernetes Pod management, inference server services, real-time hardware monitoring, and automated development-environment backups.

## Container and Orchestration Layer

- **Software Stack:** Kubernetes (K8s) for managing the lifecycle of Pods (container instances).
- **Key Functions:**
  - **Pod Deployment:** Dynamically creates environments (e.g., a Pod named "torch-energetic-plantain"), with commands such as `/bin/bash -c "jupyter lab --ip=0.0.0.0"` and environment variables like `NVIDIA_VISIBLE_DEVICES: all`.
  - **Port Forwarding:** e.g., mapping port 8888 → NodePort 31616 to support remote
  - **Persistence:** Disk mounting (e.g., `/home/altos/pytorch` → `/workspace/data`).
  - **Automatic workspace backup:** Creates a new snapshot every 15, 30, or 60 minutes and keeps the most recent 1, 3, or 5 snapshots.
- **Supports PyTorch, TensorFlow, Jupyter, Ollama, Open WebUI, A1111, Whisper, LLaMA Factory, VS Code Server, and custom stacks** — instantly deployed via Docker.

## Resource & Data Layer

- **Monitoring Components:** Displays real-time metrics including GPU utilization, power consumption, temperature, CPU usage, memory, and disk activity.
- **Events & Logs:** Tracks Pod events and container logs (e.g., Jupyter launch logs), with CLI access supported.

## Architecture Advantages











- **Advantages:** Modular and easily extensible (e.g., adding new menu items), significantly reducing the time required to set up development environments.

Below is a detailed explanation of the main functional modules.

## 1. Overall Architecture & Navigation

- Left Sidebar:

- AI Development Environment Options: Users can click to switch between environments or create a new Pod.

Menu Items	Descriptions	Icons
PyTorch	Launches the PyTorch environment for deep learning model training.	
TensorFlow	Launches the TensorFlow environment, supporting Google's ML framework.	
Jupyterlab	Launches JupyterLab, an interactive notebook environment.	
Code Server	Launches the Code Server remote development environment.	
Ollama	Launches Ollama, a local LLM runtime tool.	
Open WebUI	Launches Open WebUI, an open-source interface for LLM interaction.	
Automatic1111	Launches the Stable Diffusion WebUI for image generation.	
Whisper	Launches OpenAI Whisper for speech-to-text processing.	
LLaMA Factory	Launches the LLaMA model fine-tuning framework.	
Create	Button for creating a new environment.	

- A settings icon (gear) is located at the bottom, linking to the /settings page and displaying the version information: "Version: 1.0"

- Main Content Area: Displays detailed information for the selected environment, including the Pod list, resource configuration, and monitoring data.

## 2. Pod Management

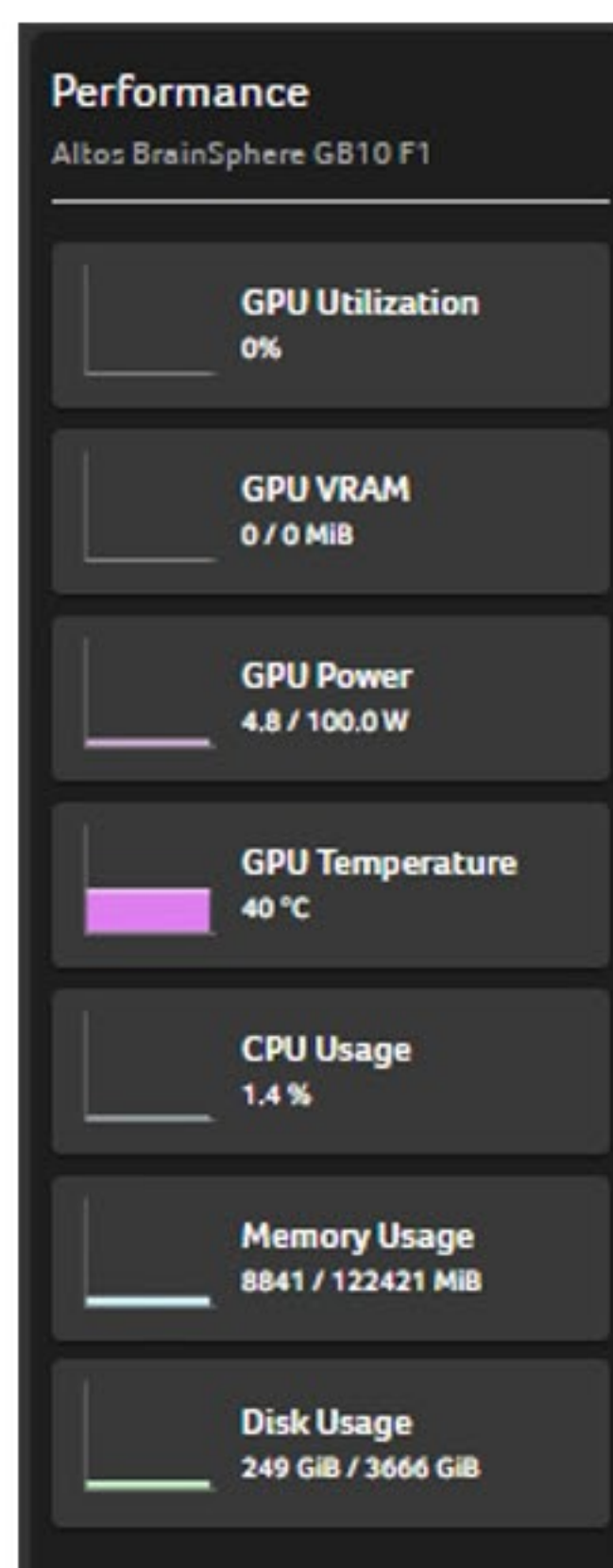
- Pod List: Displays all currently running container instances, such as "torch-energetic-plantain" (a PyTorch environment).

- Status: Running (indicated by a green circle icon); pods can be deleted using the trash icon.
- Backup Settings: Captures a full image of your dev environment (code, dependencies, configs) every 15/30/60 minutes, keeping the latest 1–5 recoverable versions.

- 📌 : Allows users to pin and preserve specific Dev environments.
- Detailed Configuration:
  - Port Forwarding: Example: :8888 (Jupyter) → NodePort :31616  
Editable via the pencil icon.
  - Environment Variables: e.g., NVIDIA\_VISIBLE\_DEVICES: all (enables all GPUs).  
Command: Shows the startup command, such as:  
`/bin/bash -c "jupyter lab --ip=0.0.0.0 --allow-root --no-browser --NotebookApp.token=""`  
(launches Jupyter Lab without a password).
  - Volumes: Mounted paths, such as /home/altos/pytorch → /workspace/data for persistent storage.
- Events: Displays Pod-related events. Currently shows "No events"; includes a refresh button.
- Logs: Displays container logs—for example, Jupyter Lab startup logs (extension loading, warnings such as missing Node.js build tools).  
Supports opening a terminal (terminal icon) or downloading logs (download arrow icon).

### 3. Performance Monitoring

- Monitoring Items:



Monitoring Item	Current Value	Description
GPU Utilization	0%	Displays the GPU compute load.
GPU VRAM	0 / 0 MiB	GPU memory usage (not detected).
GPU Power	11.2 / 100.0 W	GPU power consumption.
GPU Temperature	40 °C	GPU thermal monitoring.
CPU Usage	1.4 %	CPU load.
Memory Usage	8841 / 122421 MiB	System RAM usage.
Disk Usage	249 GiB / 3666 GiB	Storage space usage.

- Hardware spec : Altos BrainSphere™ GB10 F1

## 4. First Boot Information

Default Username: altos

Default Password: Altosgb10f1



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Last Updated: November 6, 2025

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