

Altos aiGeni User Manual

Version: v1.1 Build 13 (1.01.0013)

Date: 2026-08-26

1. aiGeni Installation Package and Notes

aiGeni is delivered digitally. Obtain the installation package from the official Altos Computing download portal at <https://www.altoscomputing.com/zh-TW/download>.

Altos aiGeni supports the Arm (arm64) and x86_64 (amd64) platforms. Download the package that matches your system.

An internet connection is required when installing aiGeni and when creating a module for the first time, so that the necessary resources and module images can be downloaded. After the download completes, modules that do not connect to external services can be used in a local-network-only environment. Modules that connect to external models, tools, channels, or other network services still require the corresponding network connectivity.

The Altos aiGeni v1.1 installation package (.zip) contains:

- Installer `altos_aigeni_installer_*.run`
- Uninstaller `altos_aigeni_uninstaller.sh`
- Installation Guide `altos_aigeni_installation-guide.pdf`

The Build 13 installer version is `1.01.0013`. The actual file name is marked `arm64` or `amd64` according to the platform.

For installation, product activation, and removal steps, refer to the "Altos aiGeni Installation Guide" included in the current package. Package names, supported platforms, and screens may change between releases; always follow the release documents shipped in the same batch.

2. Software Architecture

Altos aiGeni is a local AI tool deployment platform developed by Altos Computing Inc., a subsidiary of the Acer Group. Users can start and manage AI tools through a graphical interface, and developers can create, reproduce, or customize containerized working

environments. The platform integrates AI tools, software development tools, deep learning frameworks, and validated runtimes and software stacks.

Actual performance depends on system hardware, software configuration, and workload.

Architecture Overview

aiGeni uses a hybrid client–server and containerized architecture. Through modular design and layered interfaces, it integrates environment deployment, Pod management, hardware monitoring, and data protection:

- **aiGeni Portal:** The entry point for module selection, environment configuration, Pod status, system logs, backups, and hardware resource monitoring.
- **Containers and orchestration:** Kubernetes (K8s) manages the Pod lifecycle and builds containerized environments based on the selected module or custom settings.
- **Tools and runtimes:** Module images provide AI tools, development tools, deep learning frameworks, and their dependent software stacks.
- **Resource and data protection:** GPU, CPU, memory, and storage status are shown in real time, and working environments are protected by automatic backup and one-click restore.

Orchestration Layer

- **Pod lifecycle:** Dynamically create, run, pin, and delete container instances, and display their current status.
- **Deployment settings:** Configure port forwarding, environment variables, startup commands, and volumes according to the workload.
- **Persistent storage:** Mount storage locations on the host system into containers to preserve project and working data.
- **Tool integration:** Both built-in modules and user-added environments run as containers. Available modules and versions depend on the current release package and update results.
- **NVIDIA software integration:** A validated NVIDIA software stack is used. Actual driver, runtime, and operating system requirements follow the official support matrix.

Resource & Data Layer

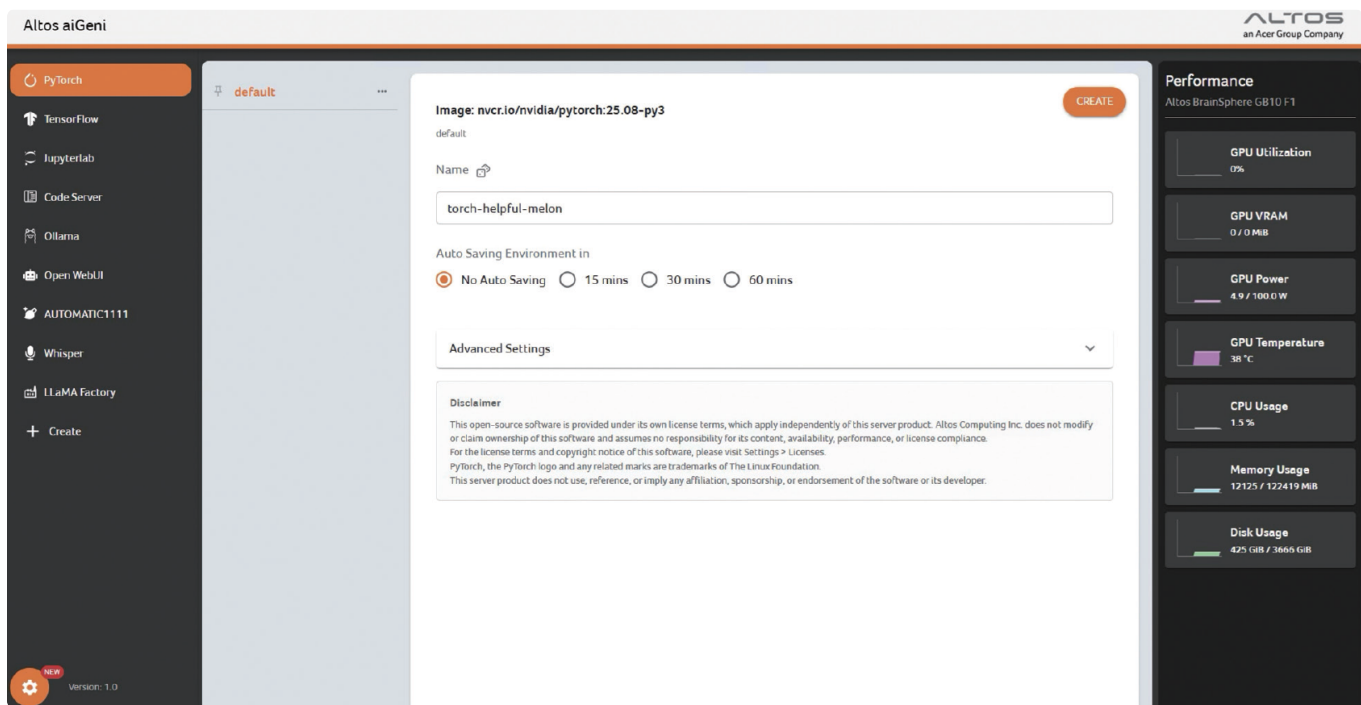
- **Resource monitoring:** Displays GPU utilization, GPU VRAM, GPU power, GPU temperature, CPU utilization, memory usage, and disk usage.
- **Events and logs:** Records Pod events and container logs, and provides terminal access and log download.
- **Environment protection:** Automatic backup can be set to every 15/30/60 minutes, retaining the most recent 1/3/5 snapshots, with support for one-click restore.

Architecture Highlights

- **Pre-integrated:** Runtimes, software stacks, drivers, and framework versions are integrated and validated in advance.
- **Custom settings preserved:** Ports, environment variables, startup commands, and storage can be configured through the graphical interface.
- **Local execution:** Workloads and data managed by aiGeni run and are stored on the local host system. If a module connects to external models, tools, channels, or other network services, the data flow and access scope depend on the user's configuration and that external service.
- **Monitoring and backup:** Resource monitoring, automatic backup, and one-click restore are managed from the same interface.

3. Functional Modules and Interface Navigation

3.1 Interface Structure and Navigation



- **Left sidebar:** Displays the AI modules integrated in aiGeni and the entry point for adding an environment. Users can select a module, switch working environments, or add a custom environment. Sidebar contents change with the software version, module updates, and sidebar settings.
- **Settings entry:** Opens platform settings and version information. The name and location may change between interface versions.

- **Main content area:** Displays the Pod list, running status, deployment settings, events, logs, and resource monitoring information for the selected module or environment.

For the purpose, suitable tasks, and recommended combinations of each module, see the next section, "AI Module Introduction."

3.2 AI Module Introduction

About This Section

This section explains the purpose, suitable tasks, and combinations of each module, so that users can select tools based on their work requirements.

This section does not replace the official manuals of the third-party tools. Features, model compatibility, and interfaces change with the aiGeni release package, module images, or third-party versions.

Module Quick Selection

Purpose	Recommended Module	Modules That Work Well Together
Chat with a local large language model in a browser	Open WebUI	Ollama
Download, manage, and run large language models locally	Ollama	Open WebUI, Code Server
Convert audio recordings into text	Whisper	Open WebUI, JupyterLab
Generate or modify images from text prompts	Automatic1111	—
Analyze data and run AI experiments in interactive notebooks	JupyterLab	PyTorch, TensorFlow
Write, test, and manage code in a browser	Code Server	PyTorch, TensorFlow, Ollama
Build deep learning projects with PyTorch	PyTorch	JupyterLab, Code Server
Build machine learning projects with TensorFlow	TensorFlow	JupyterLab, Code Server
Fine-tune large language models through a graphical workflow	LLaMA Factory	JupyterLab, Code Server
Build AI agents that use tools and perform multi-step tasks	Secure OpenClaw	—

3.2.1 Open WebUI

What It Is

Open WebUI is a self-hosted AI interface that connects to and uses different AI model services in a browser. For aiGeni users, it primarily serves as the local AI chat entry point, bringing model selection, conversations, and everyday AI usage together in a familiar graphical interface.

What It Is Good For

- Q&A, writing, summarization, translation, and content organization with local large language models.
- Selecting different models in one interface and testing how each responds to the same prompt.
- Letting users who are not familiar with the command line start using local AI through a web interface.

Using It in aiGeni

Start Open WebUI from aiGeni to open the interface in a browser. To use local models, pair it with Ollama.

Recommended Combinations

- **Ollama:** Provides local model management and inference services.
- **Whisper:** Converts speech into text first, so that an AI model can then organize or summarize it.

Before You Start

- Open WebUI is not a large language model itself. Which models are available depends on the model service it connects to.
- The time and storage space required for the first model download vary with the model and network environment.
- Model performance and the volume of content that can be processed depend on the GPU, memory, and actual configuration of the host system.

Official reference: [Open WebUI Documentation](#)

3.2.2 Ollama

What It Is

Ollama is a local model service for downloading, managing, and running large language models. It starts models on the local machine and provides interactive or API access, so that other applications can call the models for text generation and inference.

What It Is Good For

- Testing different large language models locally.
- Building model services for internal Q&A, content generation, summarization, or coding assistance.
- Letting your own applications use local models through an API.

Using It in aiGeni

After you start Ollama from aiGeni, you can download, manage, and run local models, and other applications can call them through the API. When a browser chat interface is needed, pair it with Open WebUI.

Recommended Combinations

- **Open WebUI:** Provides model selection and a chat interface in the browser.
- **Code Server:** For developing applications that call the Ollama API.

Before You Start

- Model files usually take up a large amount of storage space. Confirm available capacity before downloading.
- Different models have different license terms, memory requirements, and usage restrictions. Review the documentation from the model publisher.
- Whether a model runs successfully and how fast it responds depend on the model size, quantization method, and host hardware.

Official reference: [Ollama Documentation](#)

3.2.3 Whisper

What It Is

Whisper is a general-purpose speech recognition model released by OpenAI. It supports multilingual speech recognition, speech translation, and language identification, and converts audio content into text that can be searched, edited, and analyzed further.

What It Is Good For

- Transcribing meeting recordings, interviews, lectures, and voice notes.
- Turning spoken content into transcripts for later summarization, translation, or knowledge organization.
- Building local speech data processing workflows.

Using It in aiGeni

After you start Whisper from aiGeni, import audio for speech recognition, then use the output text for editing, search, summarization, or analysis.

Recommended Combinations

- **Open WebUI / Ollama:** Pass transcribed text to a large language model for summarization, classification, or organization.
- **JupyterLab:** Further analyze, clean, or batch-process transcription results.

Before You Start

- Transcription quality is affected by recording clarity, background noise, accents, proper nouns, and the selected model.
- Processing time and memory requirements for long audio vary with the model and hardware configuration.
- When personal or confidential speech is involved, manage the original audio and the output text according to your organization's policies.

Official reference: [OpenAI Whisper](#)

3.2.4 Automatic1111

What It Is

Automatic1111 (Stable Diffusion WebUI) is a browser-based image generation interface. It uses Stable Diffusion family models for text-to-image generation, image-to-image conversion, inpainting, upscaling, and similar tasks.

What It Is Good For

- Generating concept art, illustrations, design drafts, and visual assets from text prompts.
- Producing style or content variations from existing images.
- Testing how different models, prompts, and generation parameters affect the results.

Using It in aiGeni

Start Automatic1111 from aiGeni to use Stable Diffusion WebUI in a browser, select models, and configure prompts and generation parameters. Available models, extensions, and interface elements may vary with the module version.

Recommended Combinations

Automatic1111 can be used on its own. When you need help writing prompts or organizing image descriptions, you can separately use Open WebUI with a local language model; the two are not necessarily connected directly.

Before You Start

- The styles and quality you can generate depend on the model, prompts, parameters, and GPU resources.
- Before using third-party models, LoRAs, or other assets, confirm their licenses and usage restrictions.
- Image generation consumes a relatively large amount of GPU memory. Available image sizes and speed vary with the host hardware.

Official reference: [AUTOMATIC1111 Stable Diffusion WebUI](#)

3.2.5 JupyterLab

What It Is

JupyterLab is a browser-based interactive computing environment that integrates notebooks, a text editor, a terminal, and a file browser. A notebook can present code, explanatory text, data, charts, and other execution results together.

What It Is Good For

- Data exploration, cleaning, analysis, and visualization.
- AI model experiments, teaching demonstrations, and research records.
- Running code step by step and keeping the output, producing shareable and reproducible analysis documents.

Using It in aiGeni

Start JupyterLab from aiGeni to create or open notebooks, manage files, run code, and view results in a browser. When a deep learning framework is needed, pair it with a PyTorch or TensorFlow environment.

Recommended Combinations

- **PyTorch / TensorFlow:** Build and test deep learning models.
- **Whisper:** Analyze or batch-process transcription results.

Before You Start

- Code in a notebook uses the compute and file permissions of the current environment. Verify the source before running external code.
- Adding packages may change environment dependencies. For important experiments, keep a record of package versions and environment information.
- Before saving important work, confirm that the files are located in persistent storage and check the backup settings of that environment.

Official reference: [JupyterLab Documentation](#)

3.2.6 Code Server

What It Is

Code Server (code-server) is a Visual Studio Code-based development interface used in a browser. Code, terminal sessions, and compute tasks run on the aiGeni host system, while the browser handles display and interaction.

What It Is Good For

- Writing, testing, and debugging Python, JavaScript, or other code projects.
- Developing applications that use local models or AI APIs.
- Accessing a consistent development environment through a browser to manage code and project files.

Using It in aiGeni

Start Code Server from aiGeni to edit code, use a terminal, and manage project files in a browser. If your project includes a service program, you can configure ports, environment variables, startup commands, and storage.

Recommended Combinations

- **PyTorch / TensorFlow:** Develop deep learning programs.
- **Ollama:** Build applications that call local language models.
- **LLaMA Factory:** Prepare data, review settings, or develop application workflows based on fine-tuned models.

Before You Start

- code-server is not identical to the desktop version of Microsoft Visual Studio Code. Support for some extensions and the Marketplace may differ.
- If a service under development must expose a port externally, follow your organization's network and access control policies.
- Project files, keys, and environment variables should be stored in controlled locations and must not be written directly into publicly shared code.

Official reference: [code-server Documentation](#)

3.2.7 PyTorch

What It Is

PyTorch is a deep learning tensor computation library that supports both CPU and GPU. It provides the tools needed to build, train, and run neural networks, and is widely used in research, prototyping, computer vision, natural language processing, and generative AI projects.

What It Is Good For

- Building and training deep learning models.
- Loading existing models for inference, evaluation, or further development.
- Conducting AI research and prototype experiments that require flexible programmatic control.

Using It in aiGeni

After you start the PyTorch module, you can load data and models for training, inference, or evaluation. For interactive experiments, pair it with JupyterLab; for complete code projects, manage them with Code Server.

Recommended Combinations

- **JupyterLab:** Interactive model experiments, data analysis, and teaching.
- **Code Server:** Build more complete and maintainable deep learning projects.

Before You Start

- PyTorch is a development framework, not a ready-to-use AI model. You still need to prepare code, data, or pretrained models.
- Resource requirements for model training and inference vary widely. Assess them based on data volume, model architecture, and precision settings.
- Updating the framework or CUDA-related packages on your own may break the originally validated dependency combination.

Official reference: [PyTorch Documentation](#)

3.2.8 TensorFlow

What It Is

TensorFlow is an end-to-end machine learning platform that provides tensor computation, automatic differentiation, GPU and distributed processing, and capabilities for building, training, saving, and exporting models.

What It Is Good For

- Building, training, and evaluating machine learning and deep learning models.
- Rapidly prototyping models with high-level interfaces such as Keras.
- Developing model workflows that must later be saved, exported, or deployed.

Using It in aiGeni

After you start the TensorFlow module, you can build, train, evaluate, or export models. When you need to run code step by step and observe the results, pair it with JupyterLab; for complete code projects, manage them with Code Server.

Recommended Combinations

- **JupyterLab:** Build models step by step, observe training results, and create teaching material.
- **Code Server:** Develop, test, and manage complete TensorFlow projects.

Before You Start

- TensorFlow is a machine learning development platform, not a single pretrained model.
- Training data, model architecture, and parameter settings directly affect results and compute resource requirements.
- If you upgrade TensorFlow, drivers, or related packages yourself, first confirm compatibility with the current aiGeni environment.

Official reference: [TensorFlow Guide](#)

3.2.9 LLaMA Factory

What It Is

LLaMA Factory is a fine-tuning tool for large language models. Its WebUI covers training configuration, evaluation and prediction, chat testing, and model export.

What It Is Good For

- Using your own data to adjust how a large language model responds or to strengthen domain-specific capabilities.
- Configuring training parameters through a graphical interface and observing fine-tuning results.
- Evaluating, testing, and exporting fine-tuned models or adapters.

Using It in aiGeni

After you start LLaMA Factory, you can select a model, configure data and training parameters in the WebUI, and run evaluation, chat testing, or model export. Supported models, data formats, and training options may change with the module version.

Recommended Combinations

- **JupyterLab / Code Server:** Prepare, clean, and review training data and configurations.
- **PyTorch:** The LLaMA Factory training workflow is built on the related deep learning toolchain. For advanced customization, continue development in a PyTorch environment.

Before You Start

- Before fine-tuning, confirm the licenses, usage restrictions, and personal data handling requirements of the base model and the dataset.
- The GPU memory, storage space, and time required for training depend on the model, data volume, and fine-tuning settings.

- Whether an exported model can be used directly by other inference tools depends on the model format, quantization method, and the compatibility of the target tool.

Official reference: [LLaMA Factory WebUI Documentation](#)

3.2.10 Secure OpenClaw

What It Is

OpenClaw is a self-hosted AI agent platform that includes an agent execution loop, tool connectivity, prompt assembly, workspaces, and session management. Agents can call tools and carry out multi-step tasks according to their configuration. Secure OpenClaw is the aiGeni integrated module that adds security controls on top of OpenClaw, providing a controlled deployment and execution environment.

What It Is Good For

- Building AI agents that plan steps, use tools, and complete tasks.
- Testing local AI agents, automated workflows, and tool integrations.
- Running agent-based AI applications in environments that require data control and security boundaries.

Using It in aiGeni

Start Secure OpenClaw from aiGeni to deploy and test AI agents, tool connections, and multi-step tasks. Before you begin, configure model services, tools, channels, and permissions according to your use case.

Recommended Combinations

Secure OpenClaw can connect to model services, tools, and channels according to the agent's task. Which items are available depends on the environment configuration and the access scope permitted by your organization.

Before You Start

- AI agents may access files, tools, networks, or external services. Configure them according to the principle of least privilege and confirm the authorization scope of every operation.
- Before enabling a tool or an external service, confirm its data access scope, authentication method, and the operations it can perform.
- Keys, passwords, and other credentials should be stored in controlled locations and must not be written directly into prompts, publicly shared code, or shared files.

- Security controls cannot eliminate all agent-related risks. You must still manage data, credentials, and tool permissions according to your organization's policies.

Official reference: [OpenClaw Agent Runtime](#)

3.3 Pod Management

- **Pod list:** Displays the container instances that have been created and their running status. Environments can also be pinned or deleted from the list.
- **Automatic backup:** You can back up an environment every 15/30/60 minutes and retain the most recent 1/3/5 snapshots. When needed, the working environment can be restored from a backup.
- **Detailed configuration:**
 - **Port Forwarding:** Set the ports used by container services and for external access.
 - **Environment Variables:** View or set the environment variables required when the module runs.
 - **Command:** View or set the command executed when the container starts.
 - **Volumes:** Mount storage locations on the host system into the container to preserve project, model, and working data.
- **Events:** Displays Pod lifecycle and runtime events, and the information can be refreshed.
- **Logs:** Displays container runtime logs. The log page can open a terminal or download log files. The settings and operations shown differ from module to module.

Sample: Create and Check a PyTorch Working Environment

The following example shows how to create a PyTorch working environment and confirm that it is running:

1. Select **PyTorch** in the left sidebar, enter an environment name (for example, `pytorch-sample`), and create the working environment.
2. Confirm in the Pod list that the environment has been created, and check whether its status shows **Running**. If you want to keep this environment, you can pin it.
3. To protect your development progress, you can set automatic backup to run every 30 minutes and retain the most recent 3 snapshots. Adjust the actual settings to match your work requirements.
4. If the environment does not start properly, check **Events** first for lifecycle events, then check **Logs** for container output. For further diagnosis, open a terminal or download the logs.
5. If a service inside the working environment requires external access, configure Port Forwarding using the port that the service actually listens on. Do not simply reuse the port

values from another environment.

3.4 Performance Monitoring

Monitoring Item	Description
GPU Utilization	Shows the real-time compute load on the GPU.
GPU VRAM	Shows GPU memory usage and available capacity.
GPU Power	Shows the real-time power usage of the GPU.
GPU Temperature	Shows the real-time temperature of the GPU.
CPU Utilization	Shows the real-time load on the CPU.
Memory Usage	Shows system memory usage and available capacity.
Disk Usage	Shows storage usage and available capacity.

The models and workload scale you can run depend on the host hardware and software configuration. Review the official specifications of the host model and test with the workloads you plan to run.

4. Legal, Privacy, and License Notices

Platform Terms of Use

Altos Computing Inc. aiGeni Platform Terms of Use

Last updated: November 6, 2025

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9. Contact Us

You may contact the Company in the following ways:

1. Using the contact information provided on the Company's official website, <https://www.altoscomputing.com>.

2. Sending an email to the Company's mailbox, AltosCare.Taiwan@altoscomputing.com.
 3. Mailing a written notice to the Company's address: 6F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221421, Taiwan.
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Open Source Software License Notices

This platform integrates multiple open source software components. The full license terms of each open source component are provided below in their original text.

Open Source License Notice:

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Preamble

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The GNU Affero General Public License is designed specifically to ensure that,

in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license. The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form

of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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