



概述

Casibase 是一个由 [ChatGPT](#) 驱动的开源 [领域知识](#) 数据库、即时通讯和论坛软件。

You need to enable JavaScript to run this app.

Casibase 特点

1. 采用 Golang 开发的前后端分离架构，Casibase 支持高并发，提供基于 Web 的管

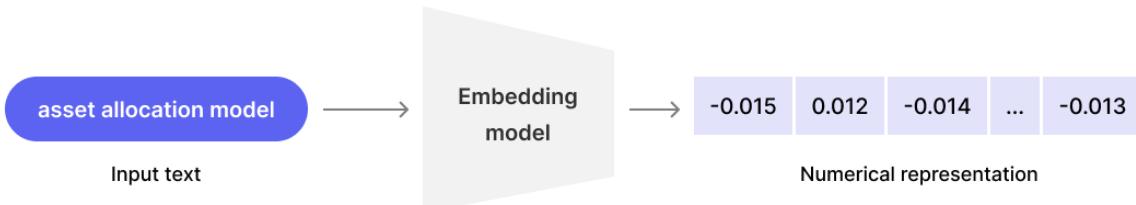
理界面，并支持多语言（中文、英文）。

2. Casibase 支持第三方应用登录，如 GitHub、Google、QQ、微信等，并支持通过插件扩展第三方登录。
3. 基于嵌入和提示工程进行知识管理，Casibase 支持自定义嵌入方法和语言模型。
4. Casibase 通过数据库同步支持与现有系统集成，使用户可以平滑过渡到 Casibase。
5. Casibase 支持主流数据库：MySQL、PostgreSQL、SQL Server 等，并支持通过插件扩展新的数据库。
6. Casibase 是一个强大的资产管理工具，可以通过 RDP、VNC 和 SSH 协议轻松连接资产，并高效处理机器的远程连接。
7. Casibase 的安全日志审计功能允许你轻松跟踪和监控远程连接，详细记录连接开始时间、持续时间和其他相关详情，同时还能捕获和分析 Casdoor 操作的 API 日志，增强安全性和操作透明度。
8. Casibase supports database management. Casibase 支持数据库管理。
Casibase 的数据库管理功能允许你轻松连接、管理和组织数据库，同时控制访问权限，简化数据库资源的用户管理和授权。

How it works

步骤 0（预备知识）

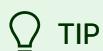
Casibase's knowledge retrieval process is based on embedding and prompt engineering, so it is highly recommended that you take a brief look at how embedding works. An [introduction](#) to Embedding.



步骤 1（导入知识）

要开始使用 Casibase，用户需要按照以下步骤导入知识并创建特定领域的知识数据库：

- 配置存储：**在 Casibase 仪表板中，用户首先应该配置存储设置。这涉及指定用于存储知识相关文件（如文档、图像或任何其他相关数据）的存储系统。用户可以根据其偏好和需求从多种存储选项中选择。
This involves specifying the storage system to be used for storing knowledge-related files, such as documents, images, or any other relevant data. Users can choose from a variety of storage options based on their preferences and requirements.
- 上传文件到存储：**一旦设置好存储，用户就可以将包含特定领域知识的文件上传到配置好的存储系统中。这些文件可以是各种格式，如文本文档、图像或结构化数据文件（如 CSV 或 JSON）。
These files can be in various formats, such as text documents, images, or structured data files like CSV or JSON.
- 选择知识生成的嵌入方法：**文件上传后，用户可以选择用于生成知识和相应向量的嵌入方法。嵌入是文本或视觉内容的数值表示，有助于高效的相似度搜索和数据分析。
Embeddings are numerical representations of textual or visual content, which facilitate efficient similarity search and data analysis.



知识是如何嵌入的？

- 对于文本数据：用户可以选择各种嵌入方法，如 Word2Vec、GloVe 或 BERT，将文本知识转换为有意义的向量。
- 对于视觉数据：如果上传的文件包含图像或视觉内容，用户可以选择基于 CNN 的特征提取等图像嵌入技术来创建代表性向量。
- 更多方法即将推出...

通过遵循这些步骤，用户可以用相关信息和相应的嵌入来填充他们的领域知识数据库，这些将用于在 Casibase 中进行有效的搜索、聚类和知识检索。嵌入过程使系统能够理解不同知识片段之间的上下文和关系，实现更高效和有见地的知识管理和探索。The embedding process allows the system to understand the context and relationships between different pieces of knowledge, enabling more efficient and insightful knowledge management and exploration.

步骤 2（检索知识）

在导入你的 领域知识 后，Casibase 将其转换为 向量 并将这些向量存储在 向量数据库 中。这种向量表示启用了强大的功能，如 相似度搜索 和 相关信息的高效检索。你可以基于上下文或内容快速找到相关数据，实现高级查询并在你的领域知识中发现有价值的见解。This vector representation enables powerful functions like similarity search and efficient retrieval of related information. You can quickly find relevant data based on context or content, enabling advanced querying and uncovering valuable insights within your domain knowledge.

步骤 3（构建提示）

Casibase 对存储的知识向量执行相似度搜索，以找到与用户查询最接近的匹配。使用搜索结果，它为 语言模型 创建一个 提示模板 来构建特定问题。这确保了基于 Casibase 中的领域知识提供准确和上下文相关的响应。Using the search results, it creates a

`prompt template` to frame a specific question for the `language model`. This ensures accurate and contextually relevant responses, delivering comprehensive answers based on the domain knowledge in Casibase.

步骤 4 (实现目标)

At this stage, using Casibase, you have successfully acquired the knowledge you sought. 在这个阶段，使用 Casibase，你已经成功获取了所需的知识。通过创新地将领域知识转换为向量并结合 ChatGPT 等强大的语言模型，Casibase 为你的查询提供准确和相关的响应。这使你能够高效地访问和利用存储在 Casibase 中的特定领域信息，轻松满足你的知识需求。 This enables you to efficiently access and utilize the domain-specific information stored in Casibase, meeting your knowledge requirements with ease.

步骤 5 (可选的微调)

如果你发现结果不完全令人满意，你可以通过以下方式尝试获得更好的结果：

- 调整语言模型参数
- 提出多个问题
- 优化原始文件

通过利用这些微调选项，你可以提高在 Casibase 中的知识管理效率，确保系统更好地与你的目标保持一致，并提供更准确和有见地的信息。

① 提示

其他优化结果的方法（可能需要源代码更改）：

- 更新 `嵌入` 结果：通过调整领域知识的嵌入结果来改进知识表示。

- 修改 **提示** 模板：通过自定义提示，你可以从语言模型获得更精确的响应。
- 探索不同的 **语言模型**：尝试不同的模型，找到最适合你的响应生成需求的模型。

在线演示

只读站点（任何修改操作都会失败）

- 聊天机器人 (<https://ai.casibase.com>)
- 管理界面 (<https://ai-admin.casibase.com>)

可写站点（原始数据每 5 分钟恢复一次）

- 聊天机器人 (<https://demo.casibase.com>)
- 管理界面 (<https://demo-admin.casibase.com>)

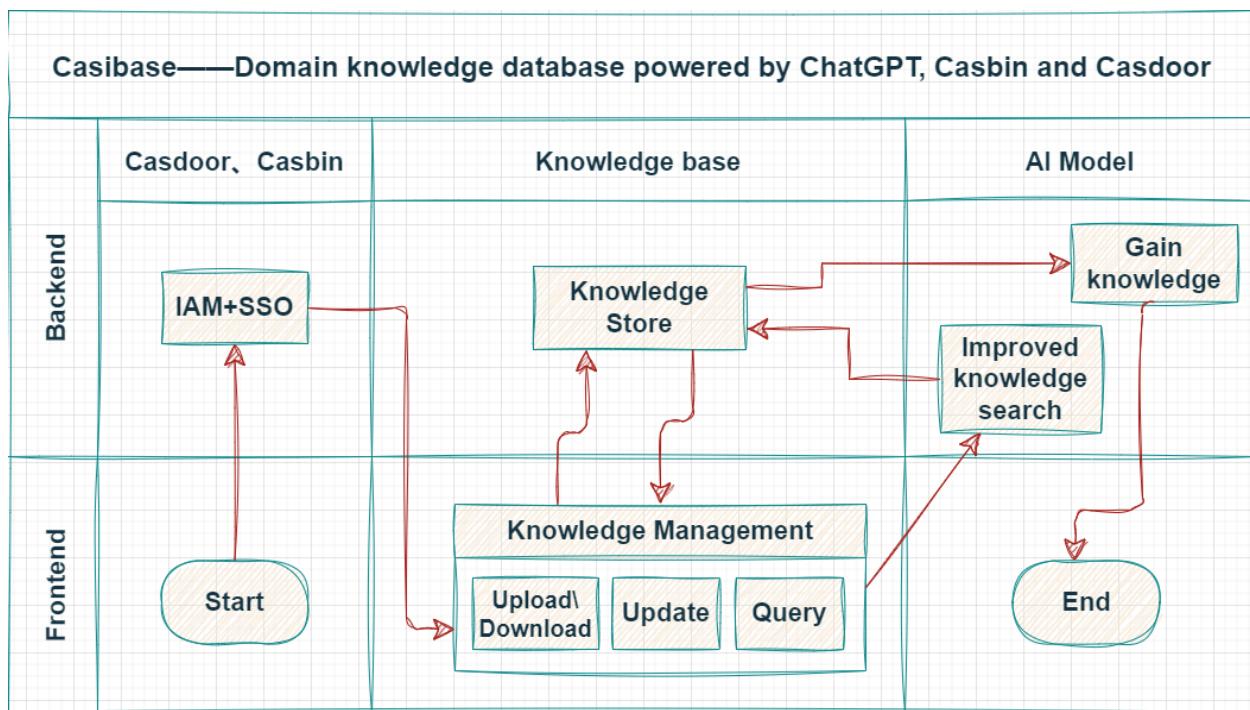
全局管理员登录：

- 用户名：**admin**
- 密码：**123**

架构

Casibase 包含 2 个部分：

名称	描述	语言	源代码
前端	Casibase 应用程序的用户界面	JavaScript + React	https://github.com/casibase/casibase/tree/master/web
后端	Casibase 的服务器端逻辑和 API	Golang + Beego + MySQL	https://github.com/casibase/casibase



支持的模型

语言模型

模型	子类型	链接
OpenAI	gpt-4-32k-0613, gpt-4-32k-0314, gpt-4-32k, gpt-4-0613, gpt-4-0314, gpt-4, gpt-3.5-turbo-0613, gpt-3.5-turbo-0301, gpt-3.5-turbo-16k, gpt-3.5-turbo-16k-0613, gpt-3.5-turbo, text-davinci-003, text- davinci-002, text-curie-001, text- babbage-001, text-ada-001, text- davinci-001, davinci-instruct-beta, davinci, curie-instruct-beta, curie, ada, babbage	OpenAI
Hugging Face	meta-llama/Llama-2-7b, tiuae/falcon-180B, bigscience/bloom, gpt2, baichuan-inc/ Baichuan2-13B-Chat, THUDM/chatglm2-6b	Hugging Face
Claude	claude-2, claude-v1, claude-v1-100k, claude- instant-v1, claude-instant-v1-100k, claude-v1.3, claude-v1.3-100k, claude-v1.2, claude-v1.0, claude-instant-v1.1, claude-instant-v1.1-100k, claude-instant-v1.0	Claude
OpenRouter	google/palm-2-codechat-bison, google/ palm-2-chat-bison, openai/gpt-3.5-turbo, openai/gpt-3.5-turbo-16k, openai/gpt-4, openai/gpt-4-32k, anthropic/claude-2, anthropic/claude-instant-v1, meta-llama/ llama-2-13b-chat, meta-llama/llama-2-70b- chat, palm-2-codechat-bison, palm-2-chat- bison, gpt-3.5-turbo, gpt-3.5-turbo-16k, gpt-4,	OpenRouter

模型	子类型	链接
	gpt-4-32k, claude-2, claude-instant-v1, llama-2-13b-chat, llama-2-70b-chat	
Ernie	ERNIE-Bot, ERNIE-Bot-turbo, BLOOMZ-7B, Llama-2	Ernie
iFlytek	spark-v1.5, spark-v2.0	iFlytek
ChatGLM	chatglm2-6b	ChatGLM
MiniMax	abab5-chat	MiniMax
Local	custom-model	本地计算机

嵌入模型

模型	子类型	链接
OpenAI	AdaSimilarity, BabbageSimilarity, CurieSimilarity, DavinciSimilarity, AdaSearchDocument, AdaSearchQuery, BabbageSearchDocument, BabbageSearchQuery, CurieSearchDocument, CurieSearchQuery, DavinciSearchDocument, DavinciSearchQuery, AdaCodeSearchCode, AdaCodeSearchText, BabbageCodeSearchCode, BabbageCodeSearchText, AdaEmbeddingV2	OpenAI
Hugging Face	sentence-transformers/all-MiniLM-L6-v2	Hugging Face
Cohere	embed-english-v2.0, embed-english-light-v2.0,	Cohere

模型	子类型	链接
	embed-multilingual-v2.0	
Ernie	default	Ernie
Local	custom-embedding	本地计算机

核心概念

作为Casibase的用户，您应该至少熟悉4个核心概念：`Provider`（提供器）、`Storage`（存储）、`Chat`（聊天）和`Vector`（向量）。

提供器（Providers）

提供器是Casibase的核心支柱，提供基本服务并与外部系统集成。Provider类的定义如下：The Provider class definition is shown as follows:

```
type Provider struct {
    Owner      string `xorm:"varchar(100) notnull pk" json:"owner"`
    Name       string `xorm:"varchar(100) notnull pk" json:"name"`
    CreatedTime string `xorm:"varchar(100)" json:"createdTime"`

    DisplayName string `xorm:"varchar(100)" json:"displayName"`
    Category    string `xorm:"varchar(100)" json:"category"`
    Type        string `xorm:"varchar(100)" json:"type"`
    ClientId   string `xorm:"varchar(100)" json:"clientId"`
    ClientSecret string `xorm:"varchar(2000)" json:"clientSecret"`
    ProviderUrl string `xorm:"varchar(200)" json:"providerUrl"`
}
```



Casibase中有两种主要类型的提供器：

- **存储提供器（Storage Providers）**。 存储提供器负责在Casibase中进行数

据的存储和检索。它支持多种存储选项，包括： It supports various storage options, including:

- AWS
 - Azure
 - 本地文件系统
- AI提供器（AI Providers）。 AI提供器负责处理Casibase中的AI相关任务和服务。它支持多种AI模型和技术，包括： It supports multiple AI models and technologies, including:
 - OpenAI
 - ChatGLM
 - InternLM

向量（Vectors）

Casibase中的向量代表不同类型数据的数值表示。这些向量能够实现信息的高效处理和分析。可用的向量类型包括： These vectors enable efficient processing and analysis of information. Some of the vector types available are:

- 文本向量
- 图像向量
- （其他向量类型）

Vector类的定义如下：

```
type Vector struct {
    Owner      string    `xorm:"varchar(100) notnull pk"
```

聊天 (Chats)

聊天是Casibase中用户与AI模型之间交互通信的核心。它包含三个基本组成部分： They consist of three essential components:

- 问题 (Question) : 用户的输入或查询，寻求信息或帮助。
- 查询提示 (Query Prompt) : 用户问题的格式化版本，为AI模型处理做准备。
- 回答 (Answer) : AI生成的对用户问题的回应，提供相关信息或解决方案。

Chat类的定义如下：

```
type Chat struct {
    Owner      string `xorm:"varchar(100) notnull pk"`
    json:"owner"`
    Name       string `xorm:"varchar(100) notnull pk"`
    json:"name"`
    CreatedTime string `xorm:"varchar(100)" json:"createdTime"`
    UpdatedTime string `xorm:"varchar(100)" json:"updatedTime"`

    DisplayName string `xorm:"varchar(100)" json:"displayName"`
    Category    string `xorm:"varchar(100)" json:"category"`
    Type        string `xorm:"varchar(100)" json:"type"`
    User1       string `xorm:"varchar(100)" json:"user1"`
    User2       string `xorm:"varchar(100)" json:"user2"`
    Users       []string `xorm:"varchar(100)" json:"users"`
    MessageCount int     `json:"messageCount"`
}
```

嵌入 (Embedding)

Embedding is the process of transforming various types of data, such as text and

images, into dense vector representations. This step is crucial for facilitating efficient data processing and analysis within Casibase.

 TIP

- 通过嵌入，聊天中的问题和存储中的知识文件将被转换为向量，用于下一步的知识搜索。
- Casibase的默认嵌入方法由OpenAI提供，每分钟最多可调用三次。我们建议最小化知识文件之间的耦合，以便于嵌入和进一步处理。 *We recommend minimizing coupling between knowledge files to facilitate embedding and further processing.*

服务器安装

要求

操作系统

支持所有主要操作系统，包括Windows、Linux和macOS。

环境

- Go 1.20+
- Node.js LTS (18)
- Yarn 1.x

INFO

Casibase的使用分为两个步骤：

- 步骤1：部署并运行Casdoor
- 步骤2：部署并运行Casibase（本文档）

我们强烈建议使用Yarn 1.x来运行和构建Casdoor和Casibase前端，使用NPM可能会导致UI样式问题，详见：[casdoor#294](#)

CAUTION

对于中国用户，为了成功下载Go依赖包，您需要通过配置GOPROXY环境变量来使用Go代理。我们强烈推荐：<https://goproxy.cn/> We strongly recommend:

<https://goproxy.cn/>

数据库

Casibase uses **XORM** to talk to the database. Casibase使用**XORM**与数据库通信。基于**Xorm**驱动支持，Casibase目前支持以下数据库：

- MySQL
- MariaDB
- PostgreSQL
- CockroachDB
- SQL Server
- Oracle
- SQLite 3
- TiDB

guacd

Casibase使用guacamole-server提供远程桌面访问。如果您想使用此功能，需要先安装guacamole-server。如果您尚未安装guacamole-server，请参考[guacamole-server安装](#)。 If you want to use this feature, you need to install guacamole-server first. If you haven't installed guacamole-server, please refer to [guacamole-server Installation](#).

您也可以使用以下命令在docker中运行guacd：

```
docker run -d --name guacd -p 4822:4822 guacamole/guacd
```

下载

Casibase的源代码托管在GitHub上：<https://github.com/casibase/casibase>。 Go后端代码和React前端代码都在同一个仓库中。 Both the Go backend code and React frontend code are inside the single repository.

名称	描述	语言	源代码
前端	Casibase的Web前端UI	JavaScript + React	https://github.com/casibase/casibase/tree/master/web
后端	Casibase的RESTful API后端	Golang + Beego + XORM	https://github.com/casibase/casibase

Casibase支持[Go Modules](#)。要下载代码，您只需通过git克隆代码： To download the code, you can just simply clone the code via git:

```
cd path/to/folder  
git clone https://github.com/casibase/casibase
```

配置

配置Casdoor

请参考[Casdoor-SSO](#)部分来配置Casdoor。

记住您在Casdoor配置中的 `clientId`、`clientSecret`、`organization`、`application` 等信息，我们稍后会用到。

配置数据库

Casibase支持mysql、mssql、sqlite3、postgres。Casibase默认使用mysql。
Casibase uses mysql by default.

MySQL

Casibase将在名为 `casibase` 的MySQL数据库中存储其用户、节点和主题信息。如果数据库不存在，需要手动创建。数据库连接字符串可以在以下位置指定：

<https://github.com/casibase/casibase/blob/master/conf/app.conf> If the database does not exist, it needs to be created manually. The DB connection string can be specified at: <https://github.com/casibase/casibase/blob/master/conf/app.conf>

```
driverName = mysql dataSourceName = root:123456@tcp(localhost:3306)/  
dbName = casibase
```

PostgreSQL

由于我们必须在使用xorm打开Postgres时选择一个数据库，因此您应该在运行Casibase之前手动准备一个数据库。

假设您已经准备了一个名为 `casibase` 的数据库，那么您应该这样指定 `app.conf`：

```
driverName = postgres dataSourceName = "user=postgres password=postgres  
host=localhost port=5432 sslmode=disable dbname=casibase" dbName =
```

! INFO

对于PostgreSQL，确保 `dataSourceName` 有非空的 `dbName`，并像上面的例子一样将独立的 `dbName` 字段留空。

CockroachDB

您也可以使用postgres驱动程序使用Cockroachdb。它的配置与PostgreSQL相同。 It has same configuration as PostgreSQL.

```
driverName = postgres dataSourceName = "user=postgres password=postgres  
host=localhost port=5432 sslmode=disable dbname=casibase  
serial_normalization=virtual_sequence" dbName =
```

(!) INFO

对于CockroachDB，不要忘记像上面的例子一样在dataSourceName中添加 serial_normalization=virtual_sequence。否则，每当服务启动或重启时，您都会收到关于数据库已存在的错误。注意，这必须在数据库创建之前添加。 otherwise you will get error regarding existed database, whenever the service starts or restarts. Notice, this must be added before the database created.

Sqlite3

您应该这样指定app.conf：

```
driverName = sqlite  
dataSourceName = "file:casibase.db?cache=shared"  
dbName = casibase
```

自定义配置

Casibase支持自定义配置，您可以修改配置文件conf/app.conf来更改配置。

- 后端 (conf/app.conf)

```
casdoorEndpoint = <您的Casdoor端点>
clientId = <您的Casdoor应用程序的客户端ID>
clientSecret = <您的Casdoor应用程序的客户端密钥>
casdoorOrganization = <您的Casdoor组织名称>
casdoorApplication = <您的Casdoor应用程序名称>
```

- 前端 (web/src/Conf.js)

```
serverUrl: "<您的Casdoor端点>"
clientId: "<您的Casdoor应用程序的客户端ID>""
appName: "<您的Casdoor应用程序名称>""
organizationName: "<您的Casdoor组织名称>"
```

运行

目前有两种启动方法，您可以根据自己的情况选择其中一种。

⚠ CAUTION

Casibase需要Casdoor提供访问控制和一些后端服务，所以在运行Casibase之前，您必须确保Casdoor正常运行。

如何安装和运行Casdoor：

- [Casdoor安装](#)

开发模式

后端

Casibase的Go后端默认在端口14000上运行。您可以使用以下命令启动Go后端： You

can start the Go backend with the following command:

```
go run main.go
```

服务器成功运行后，我们可以启动前端部分。

前端

Casibase的前端是一个非常经典的[Create-React-App \(CRA\)](#)项目。它默认在端口 [13001](#) 上运行。使用以下命令运行前端： It runs at port [13001](#) by default. Use the following commands to run the frontend:

```
cd web
yarn install
yarn start
```

生产模式

后端

将Casibase Go后端代码构建成可执行文件并启动。

对于Linux：

```
go build
./casibase
```

对于Windows：

```
go build
casibase.exe
```

前端

将Casibase前端代码构建成静态资源（.html、.js、.css文件）：

```
cd web  
yarn install  
yarn build
```

Nginx



TIP

如果您使用nginx作为反向代理，需要在nginx配置文件中添加以下配置：

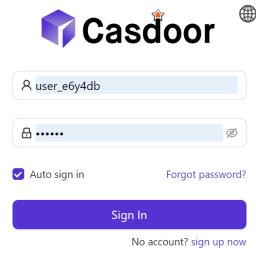
```
location / {  
    *** 您的配置 ***  
    proxy_set_header Upgrade $http_upgrade;  
    proxy_set_header Connection "upgrade";  
}
```

因为Casibase使用websocket与guacd通信。

预览

Visit: <http://localhost:13001> in your browser. 在浏览器中访问：

<http://localhost:13001>。使用您刚刚在Casdoor中注册的用户账户登录Casibase仪表板：



Powered by Casdoor

然后您将进入Casibase的主页：

A screenshot of the Casibase homepage. At the top, there is a navigation bar with links: Home, Chat, Stores, Providers, Vectors, Chats, Messages, and Tasks. On the far right, there is a user profile icon for 'New User - e6y4db' with a dropdown arrow. The main content area is currently empty, showing a light gray background. At the bottom, a footer bar displays the text 'Powered by Casibase'.



TIP
要使用其他端口，请编辑 `conf/app.conf` 并修改 `httpport`，然后重启Go后端。

(可选) 使用Docker尝试

要求

硬件

If you want to build the Docker image yourself, please ensure that your machine has at least 2GB of memory. Casibase's frontend is an NPM project of React. Building the frontend requires at least 2GB of memory. Having less than 2GB of memory may result in a frontend build failure.

如果您只需要运行预构建的镜像, 请确保您的机器至少有100MB内存。

操作系统

支持所有操作系统 (Linux、Windows和macOS) 。

Docker

您可以在Linux中使用Docker (docker-engine版本 ≥ 17.05) 或在Windows和macOS中使用Docker Desktop。

- [Docker](#)

Regardless of the operating system, users must ensure that they have docker-engine version ≥ 17.05 . 无论使用什么操作系统, 用户都必须确保有docker-engine版本 ≥ 17.05 。这是因为我们在docker-compose.yml中使用了多阶段构建功能, 该功能在17.05及以上版本中得到支持。更多信息, 请参见<https://docs.docker.com/develop/develop-images/multistage-build/>。 For more information, see

[https://docs.docker.com/develop/develop-images/multistage-build/.](https://docs.docker.com/develop/develop-images/multistage-build/)

如果您使用docker-compose, 请确保您有docker-compose版本 \geq 2.2。对于Linux用户, 请注意docker-compose需要与docker-engine分开安装。 For Linux users, note that docker-compose needs to be installed separately from docker-engine.

获取镜像

我们提供了两个DockerHub镜像:

名称	描述	建议
casibase-all-in-one	镜像中包含Casibase和MySQL数据库	此镜像已包含一个测试数据库, 仅用于测试目的
casibase	镜像中仅包含Casibase	此镜像可以连接到您自己的数据库并用于生产环境

1. casbin/casibase-all-in-one: 此镜像包含casibase可执行文件、MySQL数据库和所有必要的配置。它是为想要快速尝试Casibase的新用户设计的。使用此镜像, 您可以仅用一两个命令就立即启动Casibase, 无需任何复杂配置。但是, 请注意, 我们不建议在生产环境中使用此镜像。 It is designed for new users who want to try Casibase quickly. With this image, you can start Casibase immediately with just one or two commands, without any complex configuration. However, please note that we do not recommend using this image in a production environment.

选项-1: 使用测试数据库

运行容器时将端口 14000 暴露给主机。如果本地主机上不存在该镜像, 将自动拉取。

The image will be automatically pulled if it doesn't exist on the local host.

```
docker run -p 14000:14000 casbin/casibase-all-in-one
```

Visit <http://localhost:14000> in your browser. 在浏览器中访问

<http://localhost:14000>。使用默认的全局管理员账户登录Casibase仪表板: [built-in/admin](#)

admin

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选项-2：使用docker-compose尝试

在与 `docker-compose.yml` 文件相同的目录级别创建一个 `conf/app.conf` 目录。然后，从 Casibase 复制 `app.conf`。关于 `app.conf` 的更多详情，您可以查看[通过Ini文件](#)。

Then, copy `app.conf` from Casibase. For more details about `app.conf`, you can see [Via Ini file](#).

使用 docker-compose 创建一个独立的数据库：

```
docker-compose up
```

That's it! 就是这样! 🎉

Visit <http://localhost:14000> in your browser. 在浏览器中访问

<http://localhost:14000>。使用默认的全局管理员账户登录Casibase仪表板: [built-in/admin](#)

admin

注意：如果您深入研究`docker-compose.yml`文件，您可能会对我们创建的名为“RUNNING_IN_DOCKER”的环境变量感到困惑。当通过`docker-compose`创建数据库'db'时，它在您PC的`localhost`上可用，但在Casibase容器的`localhost`上不可用。为了防止您遇到由修改`app.conf`引起的麻烦（这对新用户来说可能相当困难），我们提供了这个环境变量并在`docker-compose.yml`中预先分配了它。当设置此环境变量为`true`时，`localhost`将被替换为`host.docker.internal`，这样Casibase就可以访问数据库。 When the database 'db' is created via docker-compose, it is available on your PC's localhost but not the localhost of the Casibase container. To prevent you from running into troubles caused by modifying app.conf, which can be quite difficult for a new user, we provided this environment variable and pre-assigned it in the docker-compose.yml. When this environment variable is set to true, localhost will be replaced with host.docker.internal so that Casibase can access the database.*

选项-3：直接使用标准镜像



如果不方便将配置文件挂载到容器中，使用环境变量也是一种可能的解决方案。

example

```
docker run \
-e driverName=mysql \
-e dataSourceName='user:password@tcp(x.x.x.x:3306)/*' \
-p 14000:14000 \
casbin/casibase:latest
```

Create `conf/app.conf`. 创建`conf/app.conf`。您可以从Casibase的`conf/app.conf`复制。关于`app.conf`的更多详情，您可以查看[通过Ini文件](#)。 For more details about `app.conf`, you can see [Via Ini file](#).

然后运行

```
docker run -p 14000:14000 -v /folder/of/app.conf:/conf casbin/casibase:latest
```

总之，只需要将app.conf挂载到/conf/app.conf并启动容器即可。

Visit <http://localhost:14000> in your browser. 在浏览器中访问

<http://localhost:14000>。使用默认的全局管理员账户登录Casibase仪表板：`built-in/admin`

admin

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Beginner Guide

添加存储提供商

了解如何将存储提供商集成到Casibase中

添加AI模型提供商

学习如何添加模型提供商来增强Casibase功能

添加嵌入提供商

探索如何将嵌入提供商集成到Casibase中

添加存储

学习如何向您的Casibase知识库系统添加存储

 与AI聊天

在您的Casibase知识库系统中实现AI聊天功能

添加存储提供商

本文档是为初学者设计的分步教程。它将指导您完成将存储提供者与Casibase（我们强大的知识库系统）集成的过程。It will guide you through the process of integrating a storage provider with Casibase, our powerful knowledge base system.

简介

向Casibase添加存储提供商可以让您高效地管理和存储数据，这是您的知识库系统的重要组成部分。

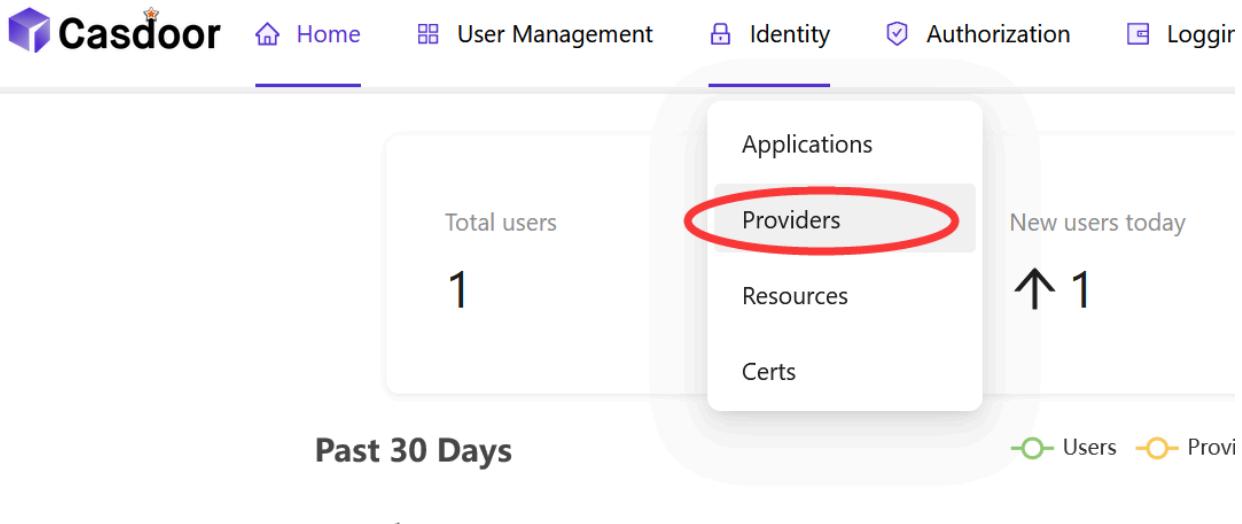
If you're new to integrating storage providers, don't worry. We've broken down the process into simple steps that anyone can follow.

步骤1：部署Casdoor和Casibase

如果您还没有完成，请参考[部署Casdoor和Casibase](#)教程。

步骤2：添加新的存储提供商

Storage providers are used to store data. 存储提供者用于存储数据。可以通过点击主页上的[Identity - Providers](#)按钮在Casdoor中添加。



步骤2.1：添加存储提供商

点击 **Add** 按钮来添加存储提供商。

The screenshot shows the "Providers" list page. At the top, there are navigation links: Home, User Management, Identity, and Authorization. The "Identity" link is underlined, indicating the current active page. The main content area has a table with the following columns: Name, Organization, Created time, and Description (partially visible).

Name	Organization	Created time	Description
provider_captcha_default	admin (Shared)	2023-09-10 19:31:50	Ca

A blue "Add" button is located at the top left of the table, with a red circle highlighting it. The table also includes search and sort icons.

步骤2.2：填写存储提供商信息

填写存储提供者信息并点击 **Save & Exit** 按钮。

New Provider [Save](#) [Save & Exit](#) [Cancel](#)

Name [?](#) : provider_storage_1

Display name [?](#) : Provider_storage_1

Organization [?](#) :

Category [?](#) : Storage

Type [?](#) : aws AWS S3

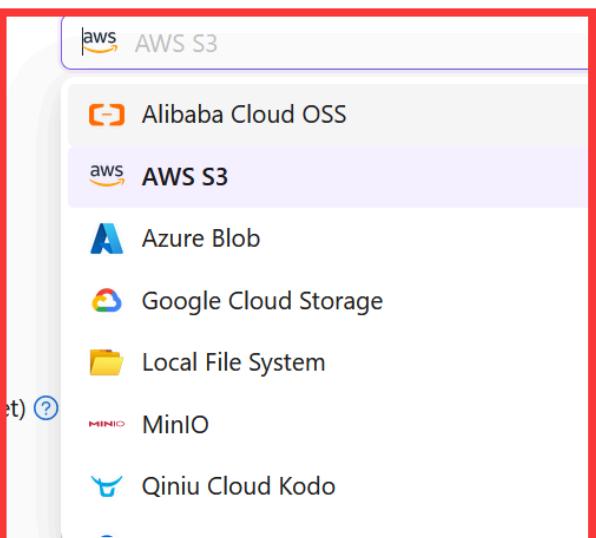
Client ID [?](#) :

Client secret [?](#) :

Endpoint [?](#) :

Endpoint (Intranet) [?](#) :

Bucket [?](#) :



Casdoor支持多种存储提供商，包括：

- [AWS S3](#)
- [Azure Blob](#)
- [Google Cloud Storage](#)
- [MinIO](#)

- [Qiniu Cloud Kodo](#)
- [阿里云OSS ...](#)

示例

添加阿里云OSS存储提供者

CAUTION

- Client ID: 您的阿里云OSS账户的AccessKey ID。
- Client Secret: 您的阿里云OSS账户的AccessKey Secret。

*****是您的阿里云OSS账户信息的占位符。

Category [?](#) : Storage

Type [?](#) : Alibaba Cloud OSS

Client ID [?](#) : LTA***NLf

Client secret [?](#) : Vo6***pi8

Endpoint [?](#) : oss-cn-beijing.aliyuncs.com

Endpoint (Intranet) [?](#) :

Bucket [?](#) : xx-bucket-0

Path prefix [?](#) :

Domain [?](#) : https://xx-bucket-0.oss-cn-beijing.aliyuncs.com

Provider URL [?](#) : https://github.com/organizations/xxx/settings/applications/1234567

[Save](#) [Save & Exit](#) [Cancel](#)

步骤2.3：查看存储提供商

添加存储提供商后，您可以查看存储提供商信息。

Name	Organization	Created time	Display name	Category	Type	Client ID	Provider URL	Action
provider_storage_1	admin (Shared)	2023-09-10 21:23:02	Provider_storage_1	Storage	Alibaba Cloud OSS	[REDACTED]	https://github.com/organizations/xxx...	Edit Delete



Storage providers come from Casdoor. 存储提供商来自Casdoor。您可以在Casdoor中添加存储提供商，然后将其添加到Casibase中。

更多信息请参考步骤2：添加新的存储提供商。

The screenshot shows the Casbin web application interface. At the top, there is a navigation bar with links: Home, Chat, Stores (which is the active tab), Providers, Vectors, Chats, Messages, Tasks, and Help. Below the navigation bar, there is a form titled "Edit Store". The form has several input fields:

- Name: store_v6c22m
- Display name: New Store - v6c22m
- Storage provider: A dropdown menu with an option "Provider_storage_1 (provider_storage_1)" circled in red.
- Model provider: (empty)
- Embedding provider: (empty)
- File tree: (empty)

At the top left of the form, there is a "Save" button. The entire screenshot is framed by a green border.

存储示例

[Home](#)[Chat](#)[Stores](#)[Providers](#)[Vectors](#)[Chats](#)[M](#)[Edit Store](#)[Save](#)

Name:

my_store

Display name:

My_Store

Storage provider:

Provider_storage_1 (provider_storage_1)

Model provider:

Embedding provider:

File tree:

保存配置，返回主页，您将看到存储提供商的文件树。

The screenshot shows the casbin interface. On the left, a search results page displays a file tree under 'My_Store'. A red box highlights the search bar and the file tree. The tree includes categories like 'audio', 'document', and 'image', with specific files such as 'AC / DC - Highway To Hell.mp3', 'casdoor-knowledge.doc', and 'lena.jpg'. On the right, a sidebar features a 'New Chat' button, an AI icon, and a message input field.

Please input your search term

- My_Store
 - alibaba_oss
 - audio
 - AC / DC - Highway To Hell.mp3 (8.34 MB)
 - document
 - casdoor-knowledge.doc (18.0 KB)
 - casdoor-knowledge.docx (10.9 KB)
 - casdoor-knowledge.html (23.5 KB)
 - casdoor-knowledge.md (2.12 KB)
 - casdoor-knowledge.pdf (107 KB)
 - image
 - lena.jpg (105 KB)
 - lena.tiff (768 KB)
 - video
 - my_video.mkv (456 KB)

+ New Chat

AI

Type message here

现在您可以在Casibase中管理您的数据了。

在下一章中，我们将学习如何添加AI模型提供商到Casibase。

添加AI模型提供商

本文档是为初学者设计的分步教程。它将指导您完成将模型提供商与Casibase（我们强大的知识库系统）集成的过程。It will guide you through the process of integrating a model provider with Casibase, our powerful knowledge base system.

简介

向Casibase添加模型提供商可以通过整合机器学习模型和AI功能来增强其功能。模型提供商允许您在知识库系统中分析和处理数据，使其更加智能和高效。Model providers allow you to analyze and process data within your knowledge base system, making it more intelligent and efficient.

If you're new to integrating model providers, don't worry. We've broken down the process into simple steps that anyone can follow.

步骤1：部署Casdoor和Casibase

Before you can add an AI model provider, make sure you have Casdoor and Casibase deployed. 在添加AI模型提供商之前，请确保您已经部署了Casdoor和Casibase。如果您还没有完成，请参考[部署Casdoor和Casibase](#)教程。

步骤2：添加新的模型提供商

模型提供商用于将LLM集成到Casibase中。您可以按照以下步骤添加： You can add them by following these steps:

点击主页上的 Providers 按钮。

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjqUrxnNlIkKdfQvAWcS1JK4XidG	***	https://console.cloud.tencent.com/tbaas/chainmaker/demo/basic?regionId=ap-guangzhou&tab=1
provider_model_alibabacloud_deepleek_r1	Provider Model AlibabaCloud DeeSeek-R1	Model	Alibaba Cloud	deepleek-r1		***	https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAl5tHkUsopAioN6sx2LMg	***	https://ecs.console.aliyun.com/server/i-2zed8cgb9o0wwmc2ku6/detail?regionId=cn-hangzhou
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	https://platform.openai.com/account/api-keys
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	https://openaicasdoorsweden.openai.azure.com/

步骤2.1：添加模型提供商

点击 Add 按钮来添加模型提供商。

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL	Action
No data								

步骤2.2：填写模型提供商详情

填写模型提供商详情并点击 Save & Exit 按钮。

[Home](#)[Chat](#)[Stores](#)[Providers](#)[Vectors](#)[Chats](#)[Me](#)[Edit Provider](#)[Save](#)

Name:

provider_openai_model

Display name:

OpenAI model

Category:

Model

Type:

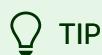
OpenAI

Sub type:

text-davinci-003

Secret key:

Provider URL:

<https://platform.openai.com/account/api-keys>[Save](#)

TIP

Casibase 支持多种模型提供商，包括：

- [Hugging Face](#)
 - meta-llama/Llama-2-7b

- THUDM/chatglm2-6b
- baichuan-inc/Baichuan2-13B-chat
- gpt2
-
- OpenRouter
 - anthropic/clause-2
 - palm-2-chat-bison
 - palm-2-codechat-bison
 - openai/gpt-4
 -
- OpenAI
 - text-davinci-003
 - gpt-3.5-turbo
 - gpt-4
 -

CAUTION

- Category: 模型提供商的一级类别。例如, Model 和 Embedding。For example, Model and Embedding.
- Type: The second-level category of the model provider. For example, OpenAI and Hugging Face.
- SecretKey: 您的OpenAI账户的密钥。

示例

添加OpenAI模型提供商

The screenshot shows the 'Edit Provider' form on the casbin platform. The 'Providers' tab is selected. The form fields are as follows:

- Name: provider_openai_model
- Display name: OpenAI model
- Category: Model
- Type: OpenAI (highlighted with a red circle)
- Sub type: OpenAI (selected option)
- Secret key: (empty)
- Provider URL: <https://platform.openai.com/account/api-keys>

A large red circle highlights the 'Type' field and its dropdown menu, which includes options like OpenAI, Hugging Face, OpenRouter, and Ernie.

⚠ CAUTION

某些模型不支持流式输出。已知支持流式输出的模型包括： Known models that support streaming-output include:

- gpt-3.5-turbo-0613

添加模型提供商后，您可以使用它来分析和处理Casibase中的数据，使用聊天机器人、问答等AI功能。

返回模型提供商列表页面：



The screenshot shows the Casibase interface with the 'Providers' tab selected. A single provider entry is listed:

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL	Action
provider_openai_model	OpenAI model	Model	OpenAI	text-davinci-003	***		https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>

A red box highlights the entire row for the 'provider_openai_model' entry.

现在您已经添加了模型提供商，您可以使用它来分析和处理Casibase中的数据，使用聊天机器人、问答等AI功能。

在下一章中，我们将学习如何向Casibase添加嵌入提供商。

添加嵌入提供商

本文档是为初学者设计的分步教程。它将指导您完成将嵌入提供商与Casibase（我们强大的知识库系统）集成的过程。It will guide you through the process of integrating an embedding provider with Casibase, our powerful knowledge base system.

简介

Embedding is a technique used to represent words and documents as vectors. Embedding providers allow you to analyze and process data within your knowledge base system, making it more intelligent and efficient.

有关嵌入的更多信息，请参考我们之前文档的[核心概念](#)部分。

在Casibase中，您可以按照以下步骤添加嵌入提供商：

步骤1：部署Casdoor和Casibase

Before you can add an embedding model provider, make sure you have Casdoor and Casibase deployed. 在添加嵌入模型提供商之前，请确保您已经部署了Casdoor和Casibase。如果您还没有完成，请参考[部署Casdoor和Casibase](#)教程。

步骤2：添加新的嵌入提供商

Embedding providers are used to integrate embedding into Casibase. You can add them by following these steps:

点击主页上的[Providers](#)按钮。

The screenshot shows the casibase interface with the 'Providers' tab selected. A table lists various storage providers with columns for Name, Display name, Category, Type, Sub type, API key, Secret key, and Provider URL. The table includes entries for Tencent ChainMaker, Alibaba Cloud, Public Cloud, Model, and Azure GPT-4.

Providers	Add	Add Storage Provider	Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL
provider_blockchain_chainmaker	Provider Blockchain	ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AkIDObZHjvqUrxnNltxKdfQvAWcS1JK4XidG	***	https://console.cloud.tencent.com/tbaas/chainmaker/demo/basicinfo		
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeeSeek-R1	Alibaba Cloud	Model	Alibaba Cloud	deepseek-r1		***	https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2		
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAioN6sx2LMg		***	https://ecs.console.aliyun.com/server/i-2zed8cgb9o0wwmc2ku6/detail?regionId=cn-hangzhou		
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3			***	https://platform.openai.com/account/api-keys		
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o		***	https://openaicasdoorsweden.openai.azure.com/		

步骤2.1：添加嵌入提供商

点击 Add 按钮来添加嵌入提供商。

The screenshot shows the casbin interface with the 'Providers' tab selected. A table is present but displays 'No data'. The 'Add' button in the top left corner of the table area is highlighted with a red circle.

Providers	Add	Display name	Category	Type	Sub type	API key	Secret key	Provider URL	Action
									No data

步骤2.2：填写嵌入提供商详情

填写嵌入提供商详情并点击 Save & Exit 按钮。

[Home](#)[Chat](#)[Stores](#)[Providers](#)[Vectors](#)[CI](#)[Edit Provider](#)[Save](#)

Name:

embedding_openai_adasimilarity

Display name:

Embedding_OpenAI_AdaSimilarity

Category:

Embedding

Type:

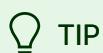
OpenAI

Sub type:

AdaSimilarity

Secret key:

Provider URL:

<https://platform.openai.com/account/api-keys>[Save](#)

TIP

与模型提供商部分相同， Casibase支持多种嵌入提供商，包括：

- [OpenAI](#)

- AdaSimilarity
- DavinciSimilarity
- AdaEmbedding2
-
- Hugging Face
 - sentence-transformers/paraphrase-MiniLM-L6-v2
 -

返回提供商列表页面：

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL	Action
embedding_openai_adasimilarity	Embedding_OpenAI_AdaSimilarity	Embedding	OpenAI	1		***	https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>
model_openai_text_davinci_003	Model OpenAI text-davinci-003	Model	OpenAI	text-davinci-003		***	https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>

现在，您可以使用嵌入提供商将文本转换为向量。

添加嵌入提供商后，您可以使用它在Casibase中检索相似文档。有关更多信息，请参考我们之前文档的[核心概念](#)部分。 For more information, please refer to the [Core Concepts](#) section of our previous documentation.

在下一章中，我们将学习如何将存储提供商、模型提供商和嵌入提供商与Casibase集成。

添加存储

我们已经添加了存储提供商、模型提供商和嵌入提供商。现在我们需要配置一个存储来使用这些提供商。 Now we need to configure a store to use these providers.

CAUTION

This guide assumes that you have already deployed a Casibase knowledge base system. 本指南假设您已经部署了Casibase知识库系统。如果您还没有完成，请参考[部署Casdoor](#)和[Casibase](#)教程。

Besides, this guide assumes that you have already added a storage provider, a model provider, and an embedding provider. 此外，本指南假设您已经添加了存储提供商、模型提供商和嵌入提供商。如果您还没有完成，请按照[添加存储提供商](#)、[添加AI模型提供商](#)和[添加嵌入提供商](#)指南进行操作。

步骤1：添加新的存储

存储用于将存储、模型和嵌入提供商集成到Casibase中。您可以按照以下步骤添加：
You can add them by following these steps:

点击主页上的 **Stores** 按钮，然后点击 **Add** 按钮来添加存储。



Home Chat Stores Providers Vectors Chats Message

Stores	Add	Stores	Providers	Vectors	Chats	Message
Name		Display name		Storage provide		
my_store		My_Store		provider_storage		

步骤2：填写存储详情

选择您之前添加的存储提供商、模型提供商和嵌入提供商。

填写存储详情并点击 **Save & Exit** 按钮。

casbin

Home Chat Stores Providers Vectors Chats Messages Tasks Resources ↗ P

Edit Store Save

Name: my_store

Display name: My_Store

Storage provider: Provider_storage_1 (provider_storage_1)

Model provider: Model OpenAI text-davinci-003 (model_openai_text_davinci_003)

Embedding provider:

File tree:

Embedding_OpenAI_Adasimilarity (embedding_openai_adasimilarity)

My_Store

- alibaba_oss
 - audio
 - AC / DC - Highway To Hell.mp3 (8.34 MB)
 - document
 - casdoor-knowledge.doc (18.0 KB)
 - casdoor-knowledge.docx (10.9 KB)
 - casdoor-knowledge.html (23.5 KB)
 - casdoor-knowledge.md (2.12 KB)
 - casdoor-knowledge.pdf (107 KB)
 - image
 - lena.jpg (105 KB)
 - lena.tiff (768 KB)
 - video
 - my_video.mkv (456 KB)

点按 Save & Exit 按钮并返回存储列表页面：

casbin

Home Chat Stores Providers Vectors Chats Messages Tasks Resources ↗ Permissions ↗ Logs ↗ Jimmy

Stores	Add	Name	Display name	Storage provider	Model provider	Embedding provider	Action
my_store		My_Store	provider_storage_1	model_openai_text_davinci_003	embedding_openai_adasimilarity		<button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button>

现在，您可以使用存储来存储知识库数据、将文本转换为向量，并与聊天机器人对话。

在下一节中，我们将学习如何在Casibase中与聊天机器人对话。

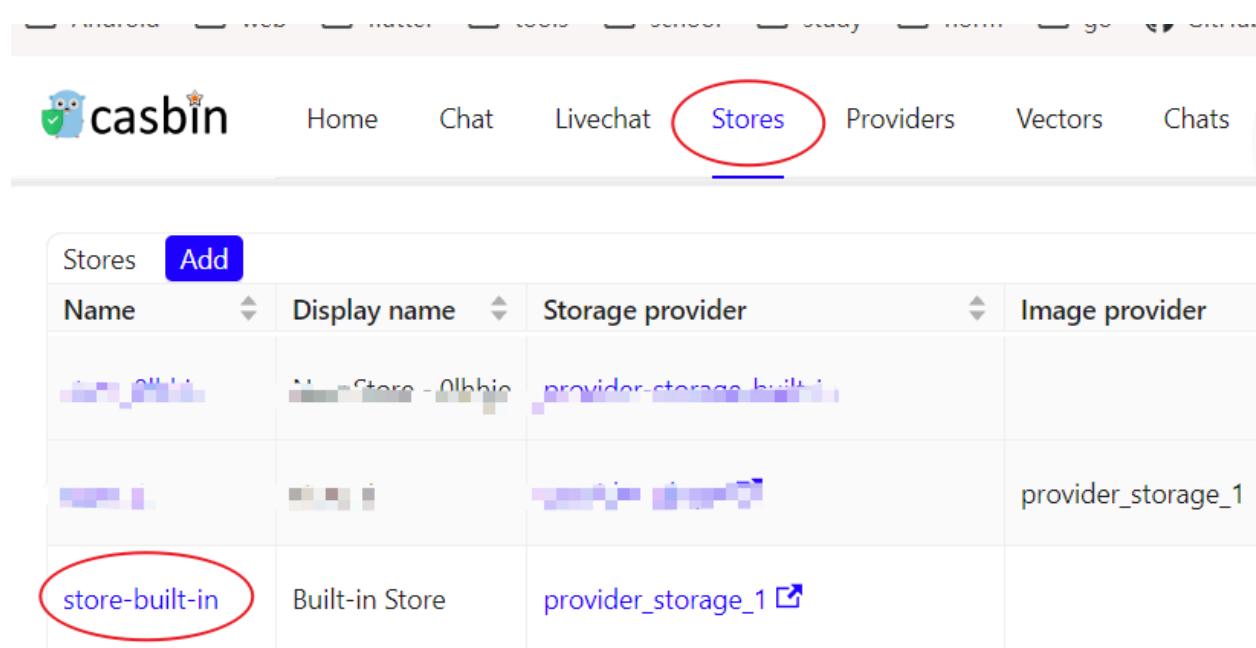
支持多存储

多存储模式为用户在每个不同的存储中提供不同的模型、建议等。

步骤1：启用多存储

首先，您应该在内置存储中启用多存储模式。

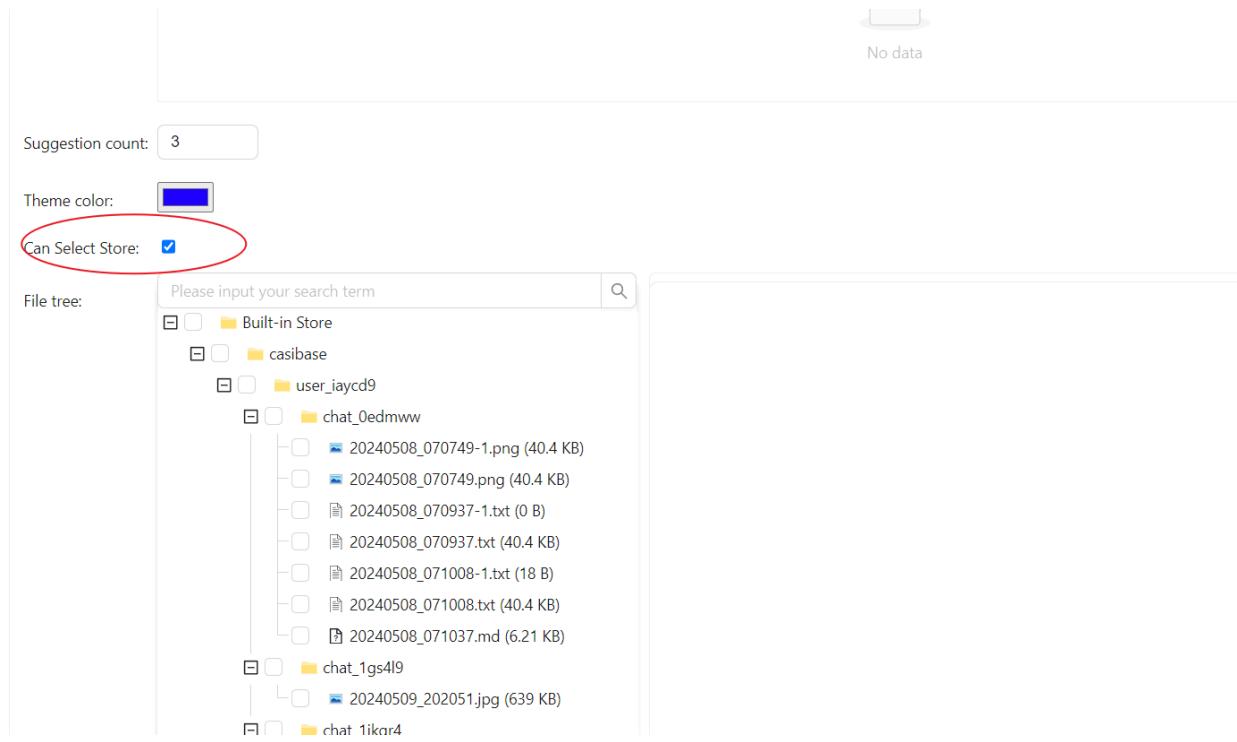
点击主页上的 Stores 按钮，然后点击 store-built-in 按钮进入内置存储。



The screenshot shows the Casibase interface with the 'Stores' tab selected. A red circle highlights the 'store-built-in' entry in the table below. The table has columns: Name, Display name, Storage provider, and Image provider. The 'store-built-in' entry has a blue border around its 'Name' field.

Name	Display name	Storage provider	Image provider
store-built-in	Built-in Store	provider_storage_1	

向下滚动找到 Can Select Store 字段，勾选它。



步骤2：添加可用存储

The multi-store mode only provides usable stores. To make a store usable, you need to configure its storage provider, model provider, and embedding provider.

步骤3：为对话选择存储

Casibase提供了一种非常方便的选择存储的方法。



Home Chat Livechat Stores Providers Vectors Chats Messages Usages Frameworks

The screenshot shows the casbin Chat interface. At the top, there's a navigation bar with links: Home, Chat (which is highlighted in blue), Livechat, Stores, Providers, Vectors, Chats, Messages, Usages, and Frameworks. Below the navigation bar, there's a purple header bar with the text "New Chat - 7". On the left side, there's a sidebar with a red border containing a button labeled "+ New Chat". Below this button, there's a list of storage options: "store_1" and "store-built-in". To the right of the sidebar, the main chat area displays a message from a user: "You are an expert in your field". Below this message, there's a response from a bot: "Thank you for recognizing my expertise. Whether it's related to my specific area of knowledge or expertise to provide insightful answers and solutions to any problems you may have." At the bottom of the main chat area, there are five small blue icons representing different actions: a square, a circle, a triangle pointing up, a triangle pointing down, and a triangle pointing right.

只需将鼠标悬停在"New Chat"上，然后您就可以从下面出现的列表中选择您想要使用的存储。

如果您点击"New Chat"按钮，系统将为您分配一个默认存储。

与AI聊天

This document is a step-by-step tutorial designed for beginners. 本文档是为初学者设计的分步教程。它将指导您完成在Casibase知识库系统中实现AI聊天功能的过程。

简介

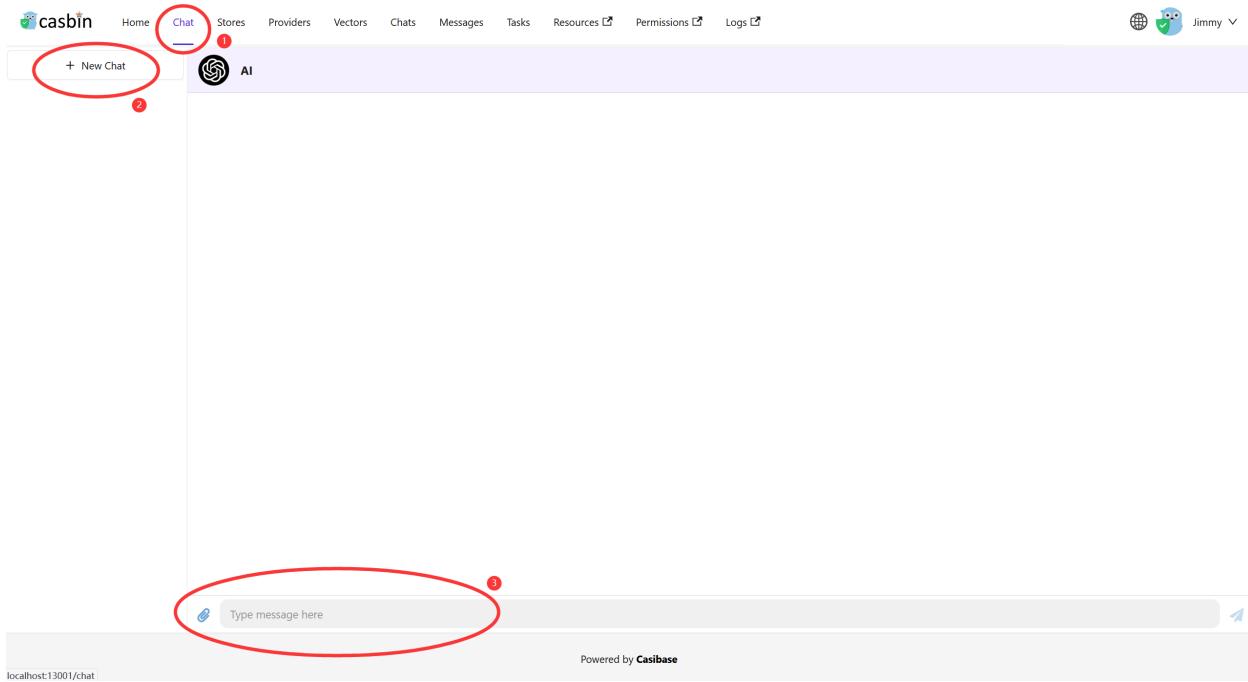
在之前的部分中，我们已经部署了Casdoor和Casibase，将存储提供商、模型提供商和嵌入提供商集成到Casibase中，并添加了一个存储来使用这些提供商。

有关存储的更多信息，请参考我们之前文档的[添加存储](#)部分。

现在，让我们在Casibase中实现AI聊天功能。

步骤1：添加新的聊天

点击主页上的[Chats](#)按钮，然后点击[New Chat](#)按钮来添加聊天。



步骤2：发送消息

写一条消息并点击 **Send** 按钮来发送。



步骤3：知识库聊天

此外，您还可以在知识库中与聊天机器人对话。

知识库聊天有一些要求：

- 知识库必须有一个存储。
- 存储必须有一个模型提供商。
- 存储必须有一个嵌入提供商。

- 存储必须有一个存储提供商。
- 存储提供商必须有一个可读的文档（例如markdown文件、docx文件和pdf文件）。

一旦您满足了这些要求，您可以返回到 Stores 页面并点击 Refresh Vectors 按钮来嵌入知识库数据。

Name	Display name	Storage provider	Model provider	Embedding provider	Action
my_store	My_Store	provider_storage_1	model_openai_text_davinci_003	embedding_openai_adasimilarity	<button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button>

当嵌入正在进行时，按钮将被禁用。

嵌入完成后，您可以点击导航栏中的 Vectors 按钮来查看向量。

结果：

Name	Display name	Store	File	Text	Data	Action
vector_7rss8s	Simplified development	my_store	alibaba_oss/document/casdoor-knowledge.pdf	Simplified development: Casdoor pro...	[{"-0.000106310275,0.02166452,0.02304..."]	<button>Edit</button> <button>Delete</button>
vector_gldg4u	Installation and Deployment: You can	my_store	alibaba_oss/document/casdoor-knowledge.pdf	Installation and Deployment: You ca...	[{"-0.0029990207,0.018568026,-0.00580..."]	<button>Edit</button> <button>Delete</button>
vector_0wrasj	Privilege Control: With Casdoor	my_store	alibaba_oss/document/casdoor-knowledge.pdf	Privilege Control: With Casdoor, de...	[{"0.0054717776,0.017982274,0.0103428..."]	<button>Edit</button> <button>Delete</button>
vector_3tet51	Casdoor Knowledge Points	my_store	alibaba_oss/document/casdoor-knowledge.pdf	Casdoor Knowledge Points Casdoor is...	[{"-0.007692282,0.024387684,0.0001651..."]	<button>Edit</button> <button>Delete</button>

让我们在知识库中与聊天机器人对话。

AI

What's casdoor? Casdoor is an OAuth2 and OIDC based authentication portal designed to help developers easily add user authentication and authorization features to their applications.

与非知识库聊天的结果比较：



AI

What's casdoor?



Casdoor is an online development platform for web and mobile applications that helps companies create and manage an end-to-end development process. It allows businesses to build, deploy, monitor, and manage apps quickly and cost effectively. It is equipped with powerful analytics tools to track the performance and usage of an app, as well as allowing companies to quickly identify and address any issues or problems.

⚠ CAUTION

嵌入速率与两个因素有关：

- 知识库中的文档：
 - 文档数量：文档越多，嵌入时间越长。
 - 文档大小：文档大小越大，嵌入时间越长。
- 嵌入提供商：
 - API速率限制：API速率限制越高，嵌入速度越快。
 - API并发：API并发越高，嵌入速度越快。

例如，如果您使用[OpenAI API](#)作为嵌入提供商，嵌入速率与[OpenAI API](#)的速率限制和并发有关。

结论

在本指南中，我们学习了如何在Casibase中实现AI聊天功能。

现在，您可以在Casibase中与聊天机器人对话了。尽情享受吧！ Enjoy it!

有关Casibase的更多信息，可以在我门文档的[核心概念](#)部分找到。

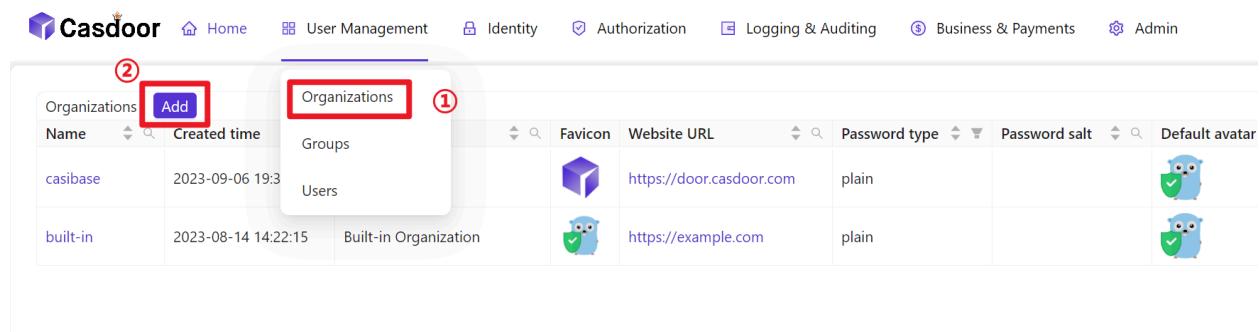
Casdoor-SSO

Casibase 使用 Casdoor 作为其身份认证和单点登录(SSO)提供商。请确保提前部署好 Casdoor。Make sure to deploy it in advance.

请参考 [Casdoor 服务器安装指南](#) 来安装和配置 Casdoor。

按照以下步骤为 Casibase 设置 Casdoor:

- 创建组织



Name	Created time	Favicon	Website URL	Password type	Password salt	Default avatar
casibase	2023-09-06 19:33		https://door.casdoor.com	plain		
built-in	2023-08-14 14:22:15		https://example.com	plain		

- 配置组织信息

casibase

Casibase

Save & Exit

- 创建新应用

Name	Created time	Display name
app-casibase	2023-09-06 19:38:54	Casibase
app-built-in	2023-08-14 14:22:15	Casdoor

Add

Applications

casibase

built-in

- 配置应用信息（请记住应用名称、ClientID 和 ClientSecret）

The screenshot shows the 'Edit Application' form in Casdoor. The 'Name' field is set to 'app-casibase' (marked with red box ①). The 'Display name' field is set to 'Casibase'. The 'Organization' field is set to 'casibase' (marked with red box ②). The 'Client ID' field is set to '548c8b9c7431d2621db1' (marked with red box ③). The 'Client secret' field is set to '2bc7640d487fc4dea6f4b77f07f1bf4433e4ad40' (marked with red box ④). The 'Save & Exit' button is highlighted with a red box.

- 在新创建的组织中添加成员

The screenshot shows the 'Organizations' table in Casdoor. It lists two organizations: 'casibase' (Created time: 2023-09-06 19:34:53) and 'built-in' (Created time: 2023-08-14 14:22:15). For each organization, there are 'Groups' and 'Users' buttons in the 'Action' column. The 'Users' button for the 'casibase' organization is highlighted with a red box.

The screenshot shows the 'Users' table in Casdoor. It displays a single user entry for the 'casibase' organization. The user details are: Name: 'app-casibase', Display name: 'New User - e6y4db', Avatar: owl icon, Email: 'e6y4db@example.com', Phone: '83359893102', and Affiliation: 'Example Inc.'. The 'Add' button is highlighted with a red box.

- 配置成员信息（请记住用户名和密码）

Casdoor

Home User Management Identity Authorization Logging & Auditing Business & Payments Admin All

Edit User Save Save & Exit ④

Organization ③: casibase

ID ③: 97a6ce88-be20-4840-b8d4-b2ebb255d0ee

Name ③: user_e6y4db ①

Display name ③: New User - e6y4db

Avatar ③: Preview:

Avatar preview: A blue cartoon bear holding a green shield with a white checkmark.

Upload a photo...

User type ③: normal-user

Password ③: Modify password... ②

Email ③: e6y4db@example.com

Phone ③: +1 83359893102

Homepage ③:

Bio ③:

Tag ③: staff

Language ③:

Gender ③:

Birthday ③:

Education ③:

Score ③: 0

Karma ③: 0

Ranking ③: 1

Signup application ③: app-casibase ③

Groups ③:



>

Deployment

Deployment



部署 Casdoor 和 Casibase

了解如何部署 Casdoor 和 Casibase。

部署 Casdoor 和 Casibase

简介



什么是 Casdoor?

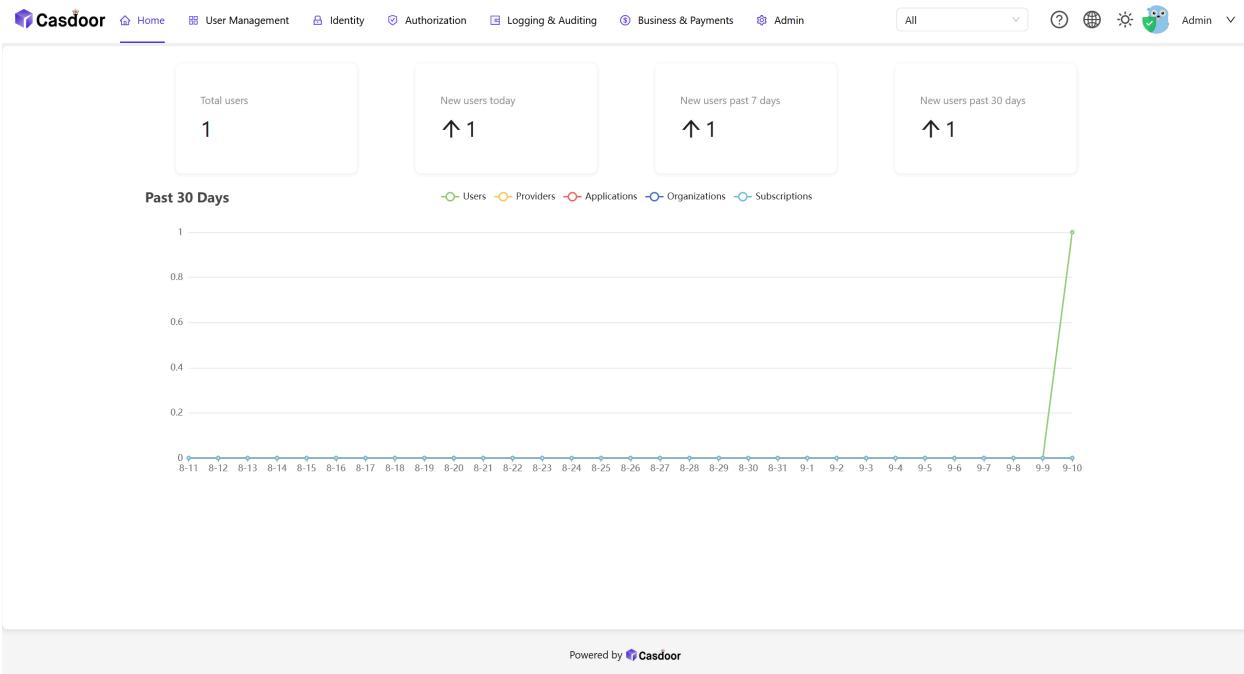
Casdoor 是一个强大的身份认证系统，提供安全可靠的登录体验。它是 Casibase 的前置要求，所以请确保先部署它。 It's a prerequisite for Casibase, so be sure to deploy it first.

访问 [Casdoor](#) 网站了解更多信息。

步骤 1：部署 Casdoor

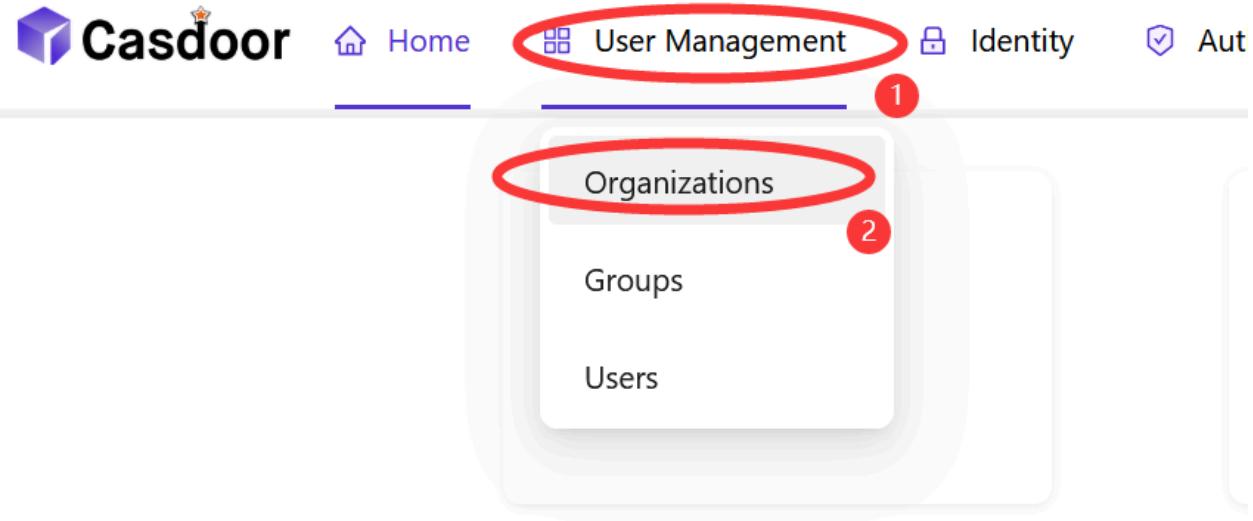
在 [Casdoor 部署指南](#) 中，你可以找到部署 Casdoor 的详细步骤。

Once you've deployed Casdoor, you'll look like this:



步骤 2：在 Casdoor 中创建组织

在 Casdoor 中，你可以创建一个组织来管理你的用户和应用。你可以通过点击主页上的 **用户管理 - 组织** 按钮来创建组织。 You can create an organization by clicking the **User Management - Organizations** button on the home page.



Past 30 Days

步骤 2.1: 添加组织

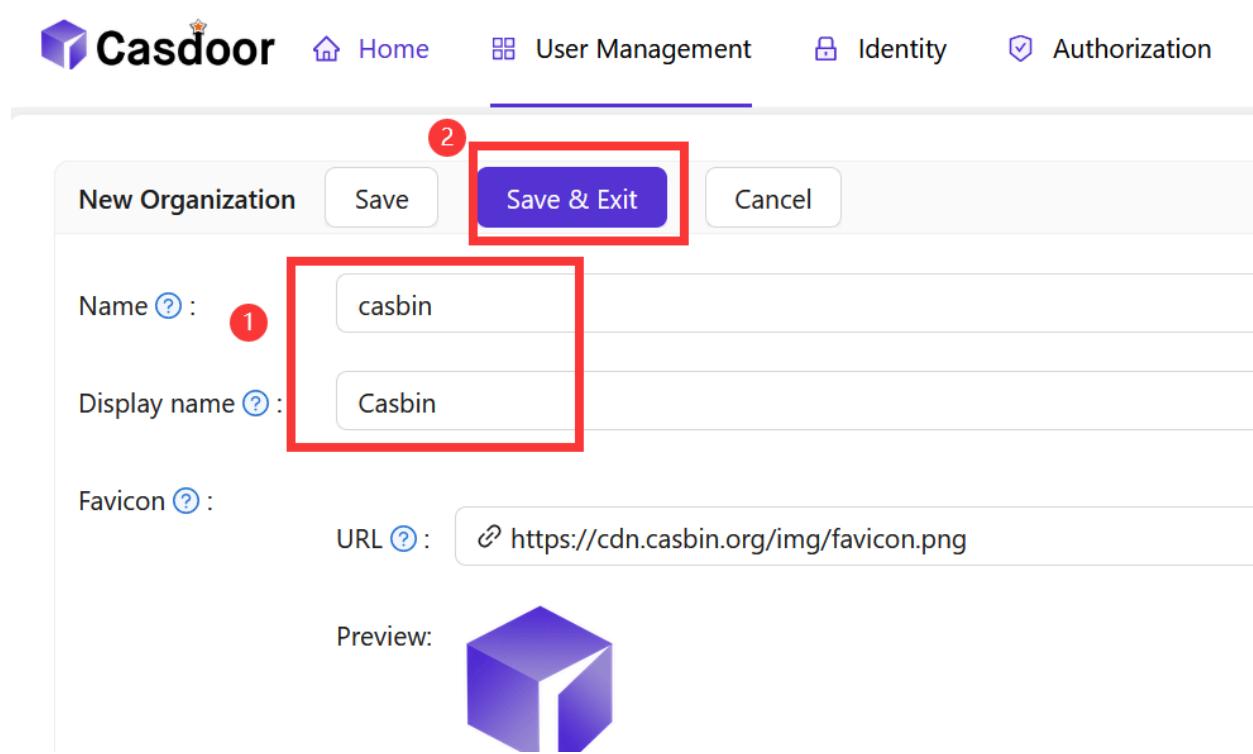
点击 **添加** 按钮来添加一个组织。

The screenshot shows the 'Organizations' management page. At the top, there is a search bar labeled 'Organizations' and a blue 'Add' button, both of which are circled in red. Below the search bar is a table with three columns: 'Name', 'Created time', and 'Display name'. A single row is visible, showing 'built-in' in the Name column, '2023-09-10 19:31:50' in the Created time column, and 'Built-in Organization' in the Display name column.

Name	Created time	Display name
built-in	2023-09-10 19:31:50	Built-in Organization

步骤 2.2：填写组织信息

填写组织信息并点击 **保存并退出** 按钮。



New Organization

Name ②: casbin

Display name ①: Casbin

Save Save & Exit Cancel

Favicon ②:

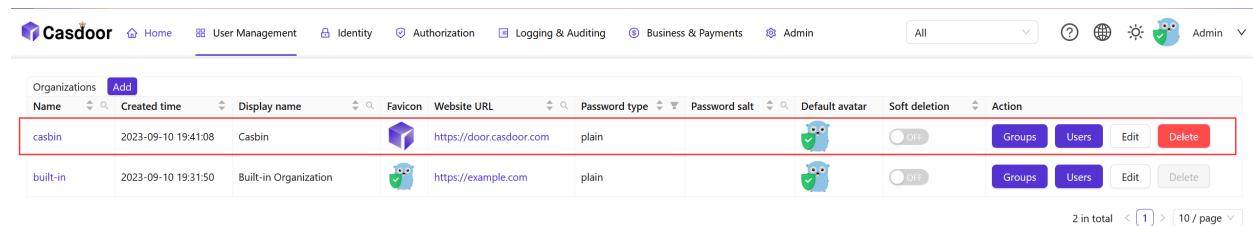
URL ①: <https://cdn.casbin.org/img/favicon.png>

Preview:



步骤 2.3：查看组织

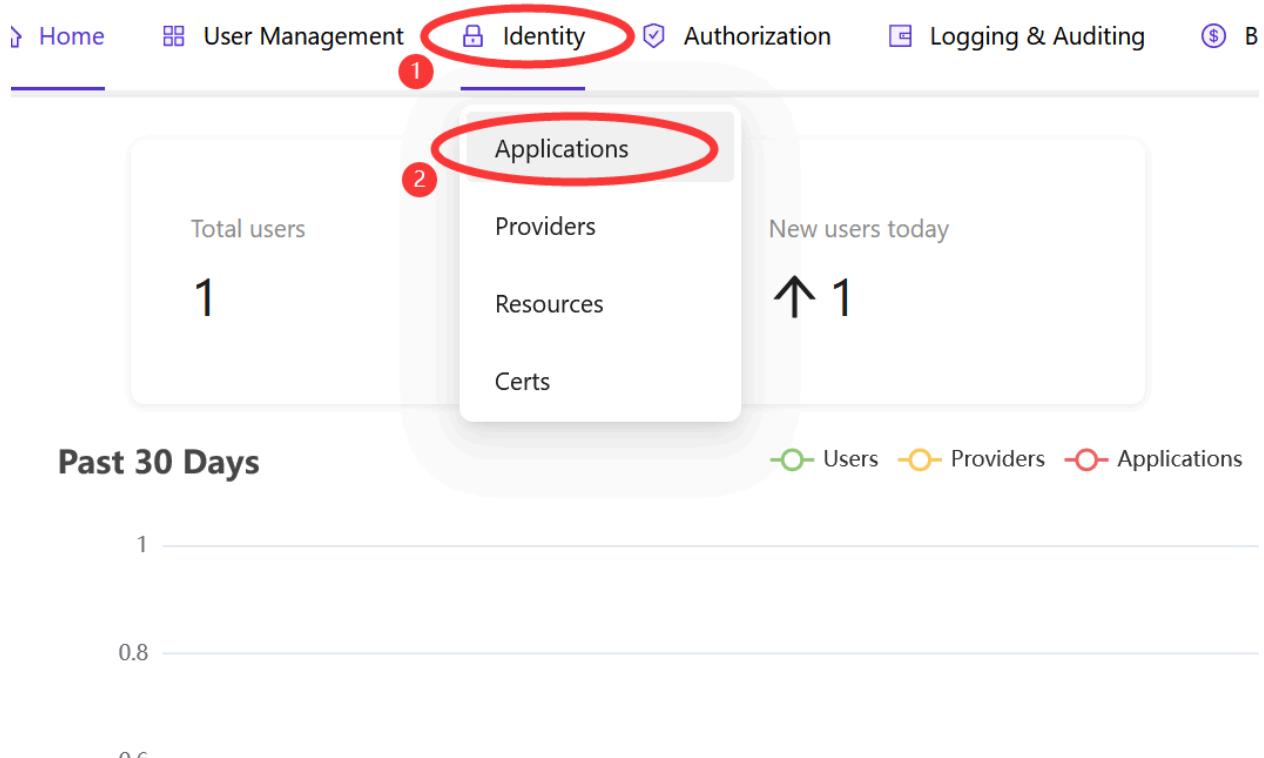
添加组织后，你可以查看组织信息。



Name	Created time	Display name	Favicon	Website URL	Password type	Password salt	Default avatar	Soft deletion	Action
casbin	2023-09-10 19:41:08	Casbin		https://door.casdoor.com	plain			<input checked="" type="radio"/> OFF	<button>Groups</button> <button>Users</button> <button>Edit</button> <button>Delete</button>
built-in	2023-09-10 19:31:50	Built-in Organization		https://example.com	plain			<input checked="" type="radio"/> OFF	<button>Groups</button> <button>Users</button> <button>Edit</button> <button>Delete</button>

步骤 3：在 Casdoor 中创建应用

In Casdoor, you can create an application to manage your users and organizations. You can create an application by clicking the `Identity - Applications` button on the home page.



步骤 3.1：添加应用

点击 `添加` 按钮来添加一个应用。



步骤 3.2：填写应用信息

填写应用信息并点击 **保存并退出** 按钮。

Casdoor Home User Management Identity Authorization Logging & Auditing Business & Payments Ad

New Application Save Save & Exit Cancel

Name ? : app-casibase 5

Display name ? : Casibase 1

Logo ? : URL ? : https://cdn.casbin.org/img/casdoor-logo_1185x256.png

Preview: 

Home ? :

Description ? :

Organization ? : casbin 2

Tags ? :

Client ID ? : 2786e0cbadfb56287a9a 3

Client secret ? : 4f9957d3e679efdb3391eb42b38d274d46fa1232

Cert ? : cert-built-in

Redirect URLs ? :

Redirect URLs Add

Redirect URI 4

<http://localhost:14000/callback>

步骤 3.3：查看应用

添加应用后，你可以查看应用信息。

Casdoor Home User Management Identity Authorization Logging & Auditing Business & Payments Admin

All

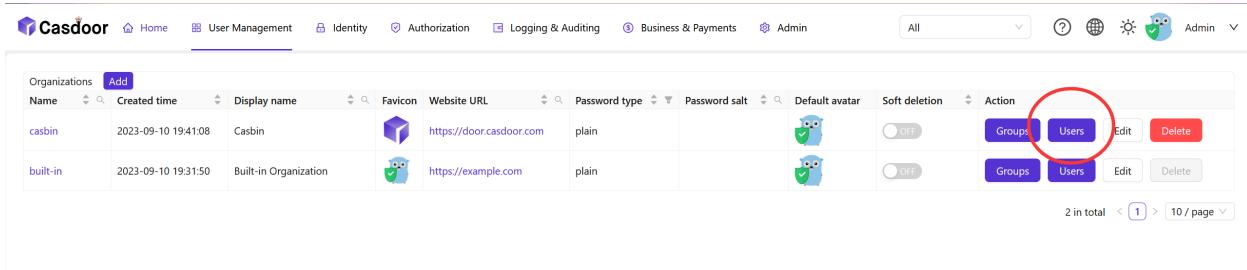
Applications Add

Name	Created time	Display name	Logo	Organization	Providers	Action
app-casibase	2023-09-10 19:44:08	Casibase		casbin	provider_captcha_default	<button>Edit</button> <button>Delete</button>
app-built-in	2023-09-10 19:31:50	Casdoor		built-in	provider_captcha_default	<button>Edit</button> <button>Delete</button>

2 in total < 1 > 10 / page

步骤 4：在 Casdoor 中为 Casibase 创建用户

在 Casdoor 中，你可以创建一个用户来登录 Casibase。你可以通过点击主页上的 **用户管理 - 组织 - 用户** 按钮来创建用户。 You can create a user by clicking the **User Management - Organizations - Users** button from the home page.



The screenshot shows the Casdoor web application's User Management section. At the top, there are several navigation tabs: Home, User Management (which is active and highlighted in blue), Identity, Authorization, Logging & Auditing, Business & Payments, Admin, and a search bar. Below the tabs is a table titled 'Organizations' with two entries: 'casbin' and 'built-in'. The 'casbin' entry has a 'Display name' of 'Casbin', a 'Website URL' of 'https://door.casdoor.com', and a 'Password type' of 'plain'. The 'built-in' entry has a 'Display name' of 'Built-in Organization', a 'Website URL' of 'https://example.com', and a 'Password type' of 'plain'. To the right of the table are buttons for 'Groups' and 'Users', with 'Users' being highlighted in a red circle. Below the table are pagination controls showing '2 in total' and '10 / page'.

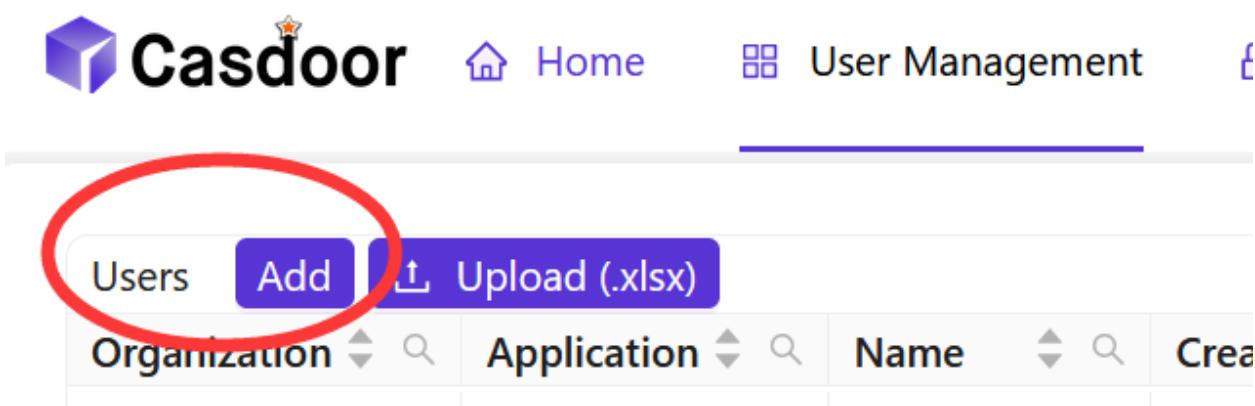


用户是组织中的成员，可以登录该组织中的应用。

访问 [Casdoor](#) 网站了解更多信息。

步骤 4.1：添加用户

点击 **添加** 按钮来添加一个用户。



The screenshot shows the Casdoor User Management interface. At the top, there are navigation links for Home and User Management. Below the navigation is a search bar with fields for 'Organization', 'Application', 'Name', and 'Create'. A prominent red circle highlights the 'Add' button, which is located in a purple header bar above the main table. The table below contains columns for 'Users', 'Add', and 'Upload (.xlsx)'. The 'Add' button is the central focus of the highlighted area.

步骤 4.2：填写用户信息

填写用户信息并点击 **保存并退出** 按钮。

New User Save Save & Exit Cancel

Organization ②: casbin 1

ID ②: d5bc730c-312c-406e-ae03-e6580d7590f4

Name ②: jimmy

Display name ②: Jimmy 2

Avatar ②: Preview:

User type ②: normal-user

Password ②: Modify password... 3

Email ②: t414w5@example.com

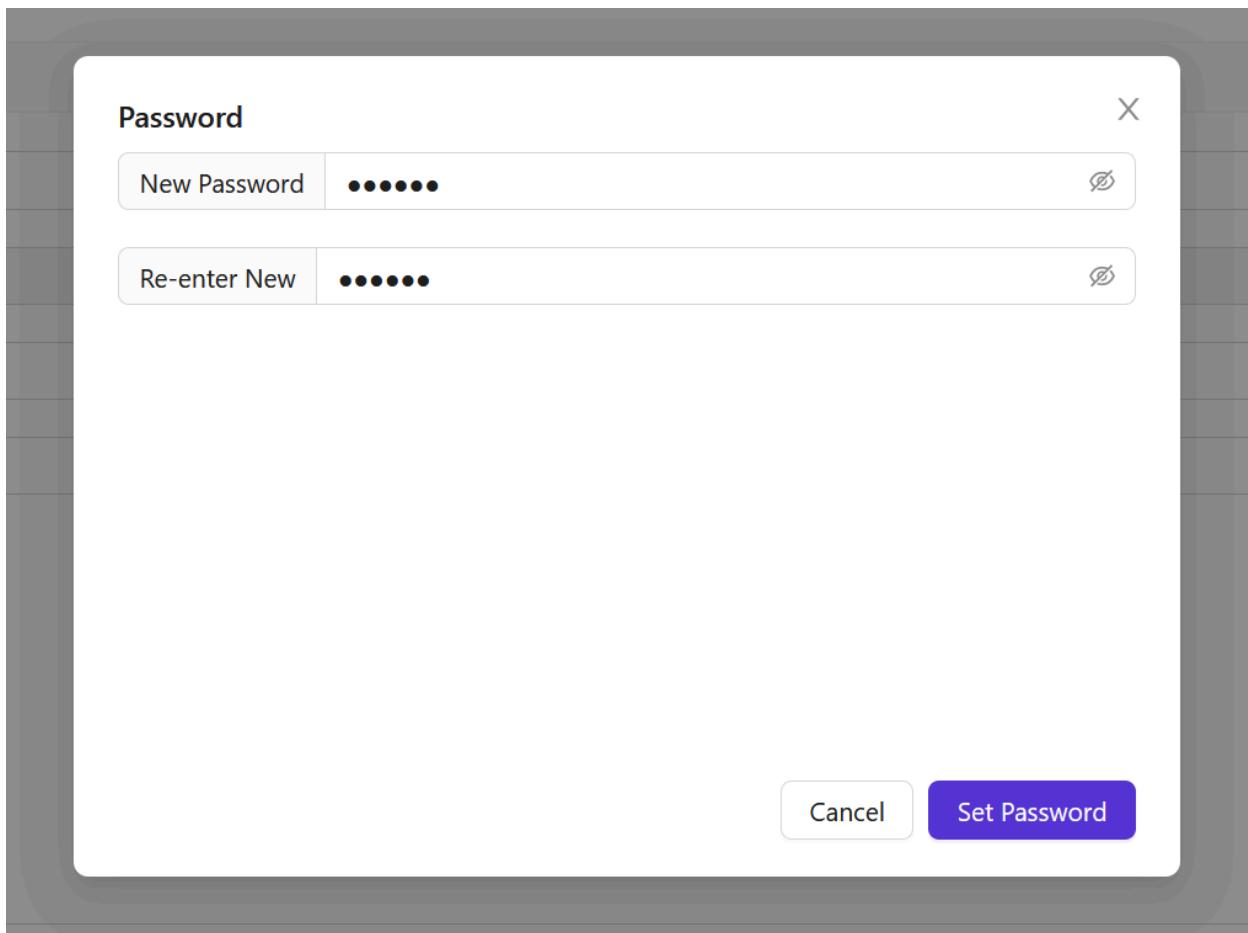
Phone ②: +1 71700415009

Country/Region ②: Please select country/region

Location ②:

- 密码

你可以通过点击 **修改密码** 按钮来设置用户密码。



- 管理员

你可以通过点击 是否为管理员 按钮来设置用户的管理员权限。

Permissions [?](#) :

Groups [?](#) :

3rd-party logins [?](#) :

Is admin [?](#) :



Is forbidden [?](#) :



Is deleted [?](#) :



Multi-factor authentication [?](#) :

Multi-factor methods

步骤 4.3：查看用户

添加用户后，你可以查看用户信息。

The screenshot shows the Casdoor User Management page. At the top, there are navigation links: Home, User Management, Identity, Authorization, Logging & Auditing, Business & Payments, Admin, and a search bar. Below the header, there is a table with a single row of data. The columns are: Organization, Application, Name, Created time, Display name, Avatar, Email, Phone, Affiliation, Country/Region, Tag, Is ac, and Action. The data row contains: casbin, app-built-in, jimmy, 2023-09-10 20:51:18, Jimmy, a blue owl icon, t414w5@example.com, 71700415009, Example Inc., and a series of icons for Edit and Delete. At the bottom right of the table, it says "1 in total".

Organization	Application	Name	Created time	Display name	Avatar	Email	Phone	Affiliation	Country/Region	Tag	Is ac	Action
casbin	app-built-in	jimmy	2023-09-10 20:51:18	Jimmy		t414w5@example.com	71700415009	Example Inc.				

步骤 5：部署 Casibase

与 Casdoor 类似，你可以按照 [Casibase 部署指南](#) 来部署 Casibase。

Once you've deployed Casibase, you'll look like this:



[Home](#) [Stores](#) [Providers](#) [Vectors](#) [Chats](#) [Messages](#) [Tasks](#) [Resources](#) [Permissions](#) [Logs](#)

Jimmy ▾

Powered by **Casibase**



>

Providers

Providers

概述

提供商概述

模型提供商

简介

嵌入提供商

简介

存储提供商

简介

概述

Casibase is an open source AI knowledge base system designed to provide efficient and flexible knowledge management and dialogue solutions for enterprises. One of its core features is Providers, which allow users to integrate multiple AI models and storage services to enhance the functionality and performance of the system: Providers are classified into three main categories: Model Providers, Embedding Providers, and Storage Providers, where Model Providers and Embedding Providers are collectively referred to as AI Providers, which, together with Storage Providers, are responsible for handling the AI models and data storage, respectively.

1. 模型提供商

模型提供商是 Casibase 中用于集成和管理 AI 模型的组件。它允许用户将各种预训练的 AI 模型集成到系统中，以实现更智能的知识处理和对话生成。通过模型提供商，用户可以轻松地在不同的 AI 模型之间切换，根据具体需求选择最合适的模型。It allows users to integrate various pre-trained AI models into the system for smarter knowledge processing and dialogue generation. With Model Provider, users can easily switch between different AI models, choosing the most appropriate model according to specific needs.

Casibase 支持多种流行的 AI 模型，包括但不限于：

模型提供商类型

- Hugging Face: 如 meta-llama/Llama-2-7b、THUDM/chatglm2-6b

- OpenAI: 如 gpt-3.5-turbo、gpt-4
- Claude: 如 claude-2、claude-instant-v1
- 文心一言: 如 ERNIE-Bot、ERNIE-Bot-turbo

2. 嵌入提供商

数据向量化

The main role of Embedding Providers is to transform various types of data (e.g., text, images, etc.) into dense vector representations. This transformation is a key step in data processing and analysis in Casibase, enabling data to be stored, retrieved and analysed in a more efficient manner.

知识检索

通过将知识库中的数据和用户的查询都转换为向量，嵌入提供商使系统能够基于向量相似度进行快速的知识检索。这大大提高了知识库检索的效率和准确性。This greatly improves the efficiency and accuracy of knowledge base retrieval.

灵活的模型支持

嵌入提供商支持多种嵌入模型，用户可以根据需求选择最适合的模型。

3. 存储提供商

We can configure the storage providers in Casdoor. and use it in Casibase, which is the component used to manage Casibase data storage and retrieval. It allows users to store data in different storage services and access the data through a unified interface. With Storage Providers, users can flexibly choose storage

services to ensure data security and efficient access. supports two types of storage: Local and Cloud.

本地

我们支持将文件上传到本地系统。

云端

我们支持 AWS S3、Azure Blob Storage、MinIO、阿里云 OSS、腾讯云 COS，并且我们正在不断添加更多的云存储服务。

模型提供商

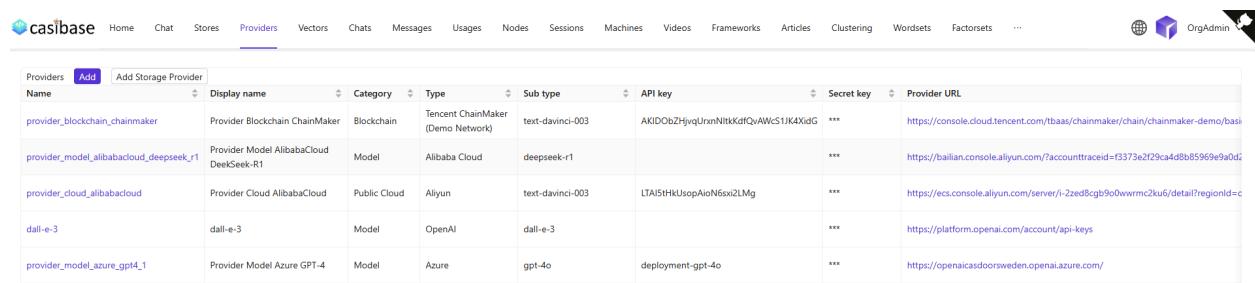
简介

向 Casibase 添加模型提供商可以通过整合机器学习模型和 AI 功能来增强其功能。模型提供商使您能够分析和处理知识库系统中的数据，使其更加智能和高效。 Model providers allow you to analyze and process data within your knowledge base system, making it more intelligent and efficient.

添加模型提供商

Model providers are used to integrate LLM into Casibase. You can add them by following these steps:

点击主页上的 提供商 按钮。



Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObzHjvqUrnxNlktKdfQvAWcS1K4XidG	***	https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAloN6xx2LMg	***	https://ecs.console.aliyun.com/server/i-2zed8cq9o0wwmc2ku5/detail?regionId=cn-hangzhou
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	https://platform.openai.com/account/api-keys
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	https://openai.azure.com/

点击 添加 按钮来添加模型提供商。

The screenshot shows the casbin web application interface. At the top, there is a navigation bar with links: Home, Stores, Providers (which is highlighted with a red circle), Vectors, Chats, Messages, Tasks, Resources (with a dropdown arrow), Permissions (with a dropdown arrow), and Logs (with a dropdown arrow). On the far right, there is a user profile icon for 'Jimmy' with a dropdown arrow. Below the navigation bar, there is a search bar with the placeholder 'Providers'. Underneath the search bar is a table header with columns: Name, Display name, Category, Type, Sub type, API key, Secret key, Provider URL, and Action. The 'Name' column has a dropdown arrow. The 'Action' column also has a dropdown arrow. The main content area below the table header shows a message 'No data' next to a small folder icon.

填写模型提供商详情

填写模型提供商详情并点击 **保存并退出** 按钮。

[Home](#)[Chat](#)[Stores](#)[Providers](#)[Vectors](#)[Chats](#)[Me](#)[Edit Provider](#)[Save](#)

Name:

provider_openai_model

Display name:

OpenAI model

Category:

Model

Type:

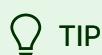
OpenAI

Sub type:

text-davinci-003

Secret key:

Provider URL:

<https://platform.openai.com/account/api-keys>[Save](#)

TIP

Casibase 支持多种模型提供商，包括：

- [Hugging Face](#)
 - meta-llama/Llama-2-7b

- THUDM/chatglm2-6b
- baichuan-inc/Baichuan2-13B-chat
- gpt2
-
- OpenRouter
 - anthropic/claude-2
 - palm-2-chat-bison
 - palm-2-codechat-bison
 - openai/gpt-4
 -
- OpenAI
 - text-davinci-003
 - gpt-3.5-turbo
 - gpt-4
 -

CAUTION

- 类别：模型提供商的一级类别。例如，模型和嵌入。For example, Model and Embedding.
- Type: The second-level category of the model provider. For example, OpenAI and Hugging Face.
- 密钥：您的 OpenAI 账户的密钥。

示例

添加 OpenAI 模型提供商

The screenshot shows the 'Edit Provider' form on the casbin platform. The 'Providers' tab is selected. The form fields are as follows:

- Name: provider_openai_model
- Display name: OpenAI model
- Category: Model
- Type: OpenAI (highlighted with a red circle)
- Sub type: OpenAI (selected option)
- Secret key: (empty)
- Provider URL: <https://platform.openai.com/account/api-keys>

A large red circle highlights the 'Type' field, which is currently set to 'OpenAI'. A purple button labeled 'Save' is located at the top right of the form.

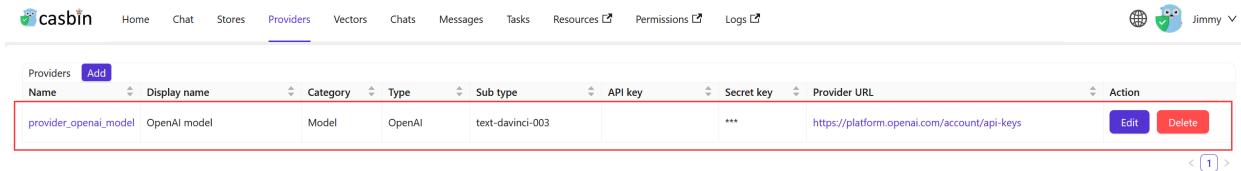
⚠ CAUTION

某些模型不支持流式输出。已知支持流式输出的模型包括： Known models that support streaming-output include:

- gpt-3.5-turbo-0613

添加模型提供商后，您可以使用它通过聊天机器人、问答等 AI 功能来分析和处理 Casibase 中的数据。

返回模型提供商列表页面：



The screenshot shows the Casibase interface with the 'Providers' tab selected. A single provider entry is listed:

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL	Action
provider_openai_model	OpenAI model	Model	OpenAI	text-davinci-003	***		https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>

A red box highlights the entire row for the provider entry.

现在您已经添加了模型提供商，您可以使用它通过聊天机器人、问答等 AI 功能来分析和处理 Casibase 中的数据。

嵌入提供商

简介

Embedding is a technique used to represent words and documents as vectors.

Embedding providers allow you to analyze and process data within your knowledge base system, making it more intelligent and efficient.

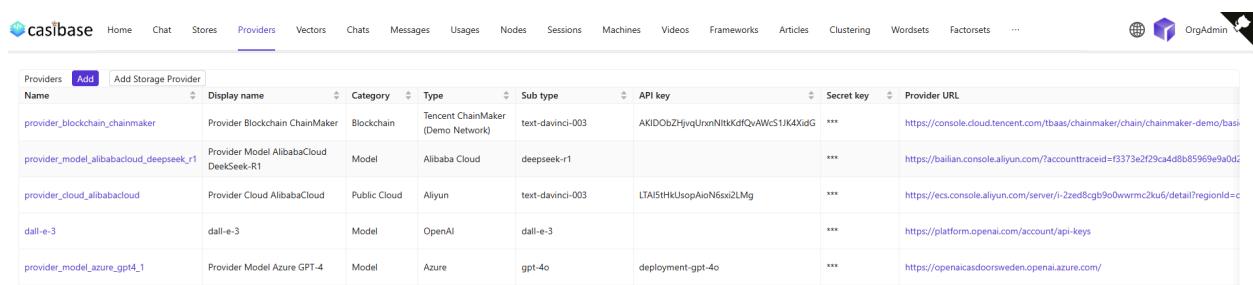
关于嵌入的更多信息，请参考我们之前文档中的[核心概念](#)部分。

在 Casibase 中，您可以按照以下步骤添加嵌入提供商：

添加新的嵌入提供商

嵌入提供商用于将嵌入功能集成到 Casibase 中。您可以按照以下步骤添加它们： You can add them by following these steps:

点击页面上的[提供商](#)按钮。



The screenshot shows the Casibase interface with the 'Providers' tab selected. A table lists several providers, each with details like name, category, type, sub-type, API key, secret key, and provider URL. The providers listed are:

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjvqUnxNtikKdfQvAWcS1JK4XidG	***	https://console.cloud.tencent.com/tbaas/chain/chainmaker-demo/basic
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	https://baikan.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAioN6xx2LMg	***	https://ecs.console.aliyun.com/server/i-2zed8cg9o0wvrmc2ku6/detail?regionId=c
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	https://platform.openai.com/account/api-keys
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	https://openaicasdoorsweden.openai.azure.com/

添加嵌入提供商

点击[添加](#)按钮来添加嵌入提供商。

The screenshot shows the casbin web application interface. At the top, there is a navigation bar with links: Home, Stores, Providers (which is highlighted with a red circle), Vectors, Chats, Messages, Tasks, Resources (with a dropdown arrow), Permissions (with a dropdown arrow), and Logs (with a dropdown arrow). On the far right, there is a user profile icon for 'Jimmy' with a dropdown arrow. Below the navigation bar, there is a search bar with the placeholder 'Providers'. Underneath the search bar is a table header with columns: Name, Display name, Category, Type, Sub type, API key, Secret key, Provider URL, and Action. The 'Add' button is located at the top left of the table area, also highlighted with a red circle. The main content area below the table shows a message 'No data' next to a folder icon.

填写嵌入提供商详情

填写嵌入提供商详情并点击 **保存并退出** 按钮。

[Home](#)[Chat](#)[Stores](#)[Providers](#)[Vectors](#)[CI](#)[Edit Provider](#)[Save](#)

Name:

embedding_openai_adasimilarity

Display name:

Embedding_OpenAI_AdaSimilarity

Category:

Embedding

Type:

OpenAI

Sub type:

AdaSimilarity

Secret key:

Provider URL:

<https://platform.openai.com/account/api-keys>[Save](#)

Casibase 支持多种嵌入提供商，包括：

- [OpenAI](#)

- AdaSimilarity
- DavinciSimilarity
- AdaEmbedding2
 -
- Hugging Face
 - sentence-transformers/paraphrase-MiniLM-L6-v2
 -

返回提供商列表页面：

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL	Action
embedding_openai_adasimilarity	Embedding_OpenAI_AdaSimilarity	Embedding	OpenAI	1	***	***	https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>
model_openai_text_davinci_003	Model OpenAI text-davinci-003	Model	OpenAI	text-davinci-003	***	***	https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>

现在，您可以使用嵌入提供商将文本转换为向量。

添加嵌入提供商后，您可以使用它在 Casibase 中检索相似文档。更多信息请参考我们之前文档中的[核心概念](#)部分。 For more information, please refer to the [Core Concepts](#) section of our previous documentation.

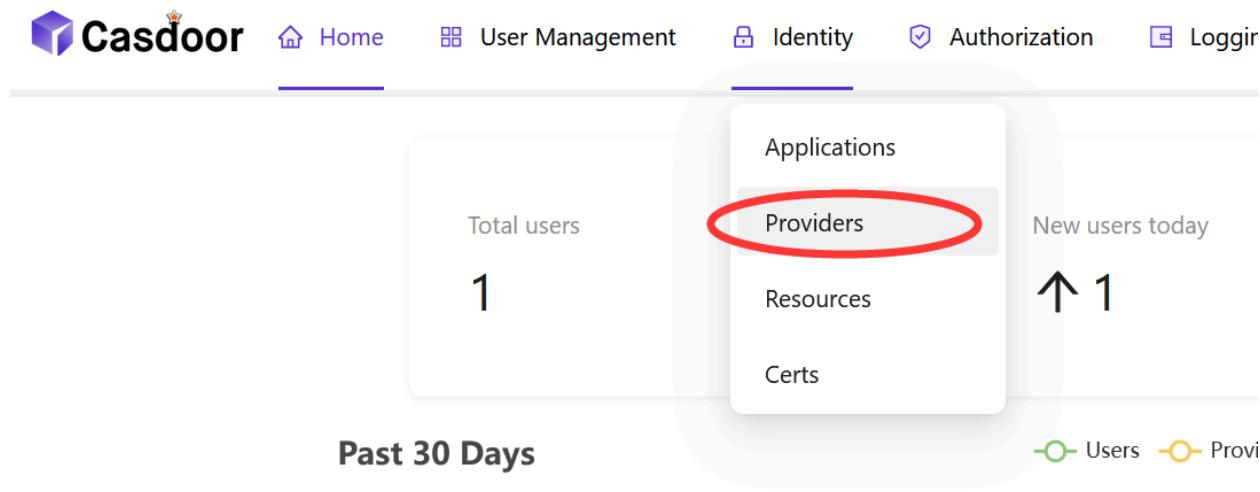
存储提供商

简介

向 Casibase 添加存储提供商可以让您高效地管理和存储数据，这是知识库系统的一个重要组件。

添加新的存储提供商

Storage providers are used to store data. 存储提供用于存储数据。您可以通过点击主页上的 **身份 - 提供商** 按钮在 Casdoor 中添加它们。



点击 **添加** 按钮来添加存储提供商。



Providers

Add

Name

Organization

Created time

Di

provider_captcha_default

admin (Shared)

2023-09-10 19:31:50

Ca

填写存储提供商信息

填写存储提供商信息并点击 **保存并退出** 按钮。

New Provider [Save](#) [Save & Exit](#) [Cancel](#)

Name [?](#) : provider_storage_1

Display name [?](#) : Provider_storage_1

Organization [?](#) :

Category [?](#) : Storage

Type [?](#) : aws AWS S3

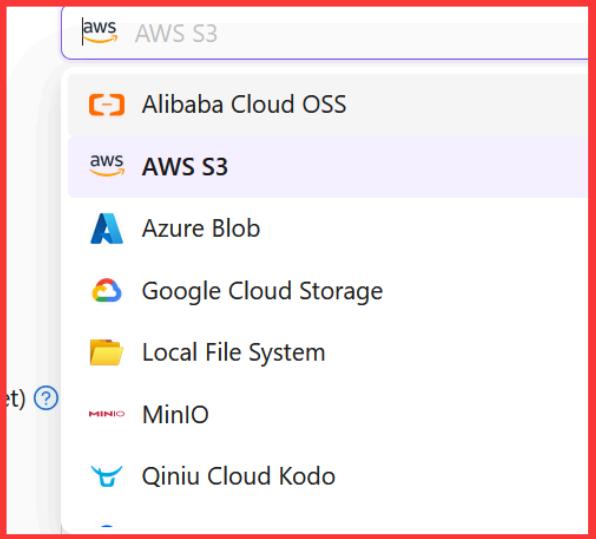
Client ID [?](#) :

Client secret [?](#) :

Endpoint [?](#) :

Endpoint (Intranet) [?](#) :

Bucket [?](#) :



The dropdown menu is styled with a light purple background and white text. Each item has a small icon to its left. The first item, "aws AWS S3", is highlighted with a blue border.



Casdoor 支持多种存储提供商，包括：

- [AWS S3](#)
- [Azure Blob](#)
- [Google Cloud Storage](#)
- [MinIO](#)

- [七牛云 Kodo](#)
- [阿里云 OSS ...](#)

示例

添加阿里云 OSS 存储提供商

CAUTION

- 客户端 ID: 您的阿里云 OSS 账户的 AccessKey ID。
- 客户端密钥: 您的阿里云 OSS 账户的 AccessKey Secret。

 是您的阿里云 OSS 账户信息的占位符。

Category [?](#) : Storage

Type [?](#) : Alibaba Cloud OSS

Client ID [?](#) : LTA***NLf

Client secret [?](#) : Vo6***pi8

Endpoint [?](#) : oss-cn-beijing.aliyuncs.com

Endpoint (Intranet) [?](#) :

Bucket [?](#) : xx-bucket-0

Path prefix [?](#) :

Domain [?](#) : https://xx-bucket-0.oss-cn-beijing.aliyuncs.com

Provider URL [?](#) : https://github.com/organizations/xxx/settings/applications/1234567

[Save](#) [Save & Exit](#) [Cancel](#)

查看存储提供商

添加存储提供商后，您可以查看存储提供商信息。

Name	Organization	Created time	Display name	Category	Type	Client ID	Provider URL	Action
provider_storage_1	admin (Shared)	2023-09-10 21:23:02	Provider_storage_1	Storage	Alibaba Cloud OSS	[REDACTED]	https://github.com/organizations/xx...	Edit Delete



>

Stores

Stores

概述

存储概述

存储配置

在添加存储提供商、模型提供商和嵌入提供商后，我们可以配置存储

概述

1. 存储功能概述

在 Casibase 中，存储功能是其核心模块之一，它允许用户集成存储、建模和嵌入服务提供商，用于知识库数据存储、文本向量转换以及与聊天机器人的交互。通过存储功能，用户可以构建一个高效、灵活且强大的 AI 知识管理系统。With the Stores feature, users can build an efficient, flexible and powerful AI knowledge management system.

2. 存储的优势

2.1 多模型集成

Casibase 的存储功能支持多个主流 AI 语言模型，包括 OpenAI（如 GPT-3.5、GPT-4）、Azure OpenAI、HuggingFace、Google Gemini 等。这种多模型支持允许用户根据具体需求选择最合适的 AI 模型，在性能、成本和功能之间找到平衡。This multi-model support allows users to choose the most suitable AI model for their specific needs and find a balance between performance, cost and features.

2.2 多种存储和嵌入选项

Users are free to choose storage and embedding service providers to meet different data storage and processing needs. 用户可以自由选择存储和嵌入服务提供商，以满足不同的数据存储和处理需求。这种灵活性使用户能够根据其技术栈和业务需求配置最合适的存储和嵌入解决方案。

2.3 多存储模式

Casibase 支持多存储模式，允许用户在不同的存储中使用不同的模型、存储和嵌入服务，为不同场景和用户提供定制化服务。这个功能使用户能够根据不同的业务需求灵活配置和切换存储。 This feature enables users to flexibly configure and switch Stores according to different business requirements.

3. 总结

Casibase 的存储功能为用户提供了一个强大的知识管理工具，通过集成多个 AI 模型、存储和嵌入服务，使他们能够灵活地构建和管理知识库。其多存储模式和企业级功能进一步增强了系统的灵活性和安全性，适用于各种应用场景。 Its multi-Store model and enterprise-level features further enhance the flexibility and security of the system, which is suitable for a variety of application scenarios.

Casibase is an open source AI knowledge base system designed to provide efficient and flexible knowledge management and dialogue solutions for enterprises. One of its core features is Providers, which allows users to integrate multiple AI models and storage services to enhance the functionality and performance of the system. Providers are divided into three main categories: Model Providers, Embedding Provides and Storage Providers, which are responsible for handling AI models and data storage, respectively.

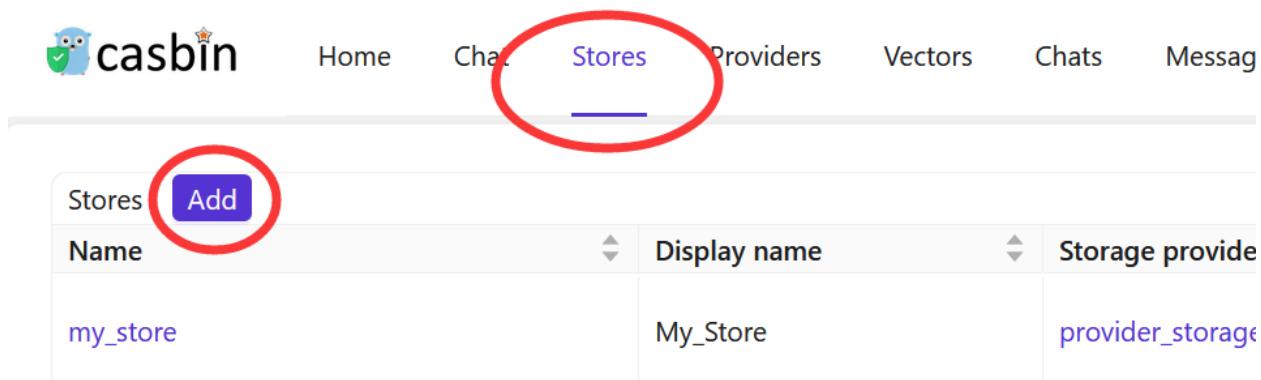
存储配置

在添加存储提供商、模型提供商和嵌入提供商后，我们可以配置存储

1. 添加新存储

存储用于将存储、模型和嵌入提供商集成到 Casibase 中。你可以按照以下步骤添加它们： You can add them by following these steps:

点击主页上的 存储 按钮，然后点击 添加 按钮来添加存储。



Name	Display name	Storage provider
my_store	My_Store	provider_storage

填写存储详情

填写存储详情并点击 保存并退出 按钮。

casbin Home Chat Stores Providers Vectors Chats Messages Tasks Resources Permissions Logs Jimmy

Edit Store Save

Name: store_v6c22m

Display name: New Store - v6c22m

Storage provider:

Model provider:

Embedding provider:

File tree:



storage provider is empty

Go to Store

Save

Powered by Casibase

选择你之前添加的存储提供商、模型提供商和嵌入提供商。

Edit Store Save

Name:	<input type="text" value="my_store"/>
Display name:	<input type="text" value="My_Store"/>
Storage provider:	<input type="text" value="Provider_storage_1 (provider_storage_1)"/>
Model provider:	<input type="text" value="Model OpenAI text-davinci-003 (model_openai_text_davinci_003)"/>
Embedding provider:	<input type="text" value="Embedding_OpenAI_Adasimilarity (embedding_openai_adasimilarity)"/>
File tree:	<div style="border: 1px solid #ccc; padding: 5px;"> □ □ □ My_Store <ul style="list-style-type: none"> □ □ □ alibaba_oss <ul style="list-style-type: none"> □ □ □ audio <ul style="list-style-type: none"> □ AC / DC - Highway To Hell.mp3 (8.34 MB) □ □ □ document <ul style="list-style-type: none"> □ casdoor-knowledge.doc (18.0 KB) □ casdoor-knowledge.docx (10.9 KB) □ casdoor-knowledge.html (23.5 KB) □ casdoor-knowledge.md (2.12 KB) □ casdoor-knowledge.pdf (107 KB) □ □ □ image <ul style="list-style-type: none"> □ lena.jpg (105 KB) □ lena.tiff (768 KB) □ □ □ video <ul style="list-style-type: none"> □ my_video.mkv (456 KB) </div>

点击 保存并退出 按钮并返回存储列表页面：

Stores Add

Name	Display name	Storage provider	Model provider	Embedding provider	Action
my_store	My_Store	provider_storage_1	model_openai_text_davinci_003	embedding_openai_adasimilarity	View Refresh Vectors Edit Delete

现在，你可以使用该存储来存储知识库数据、转换文本为向量，并与聊天机器人对话。

在下一节中，我们将学习如何在 Casibase 中与聊天机器人对话。

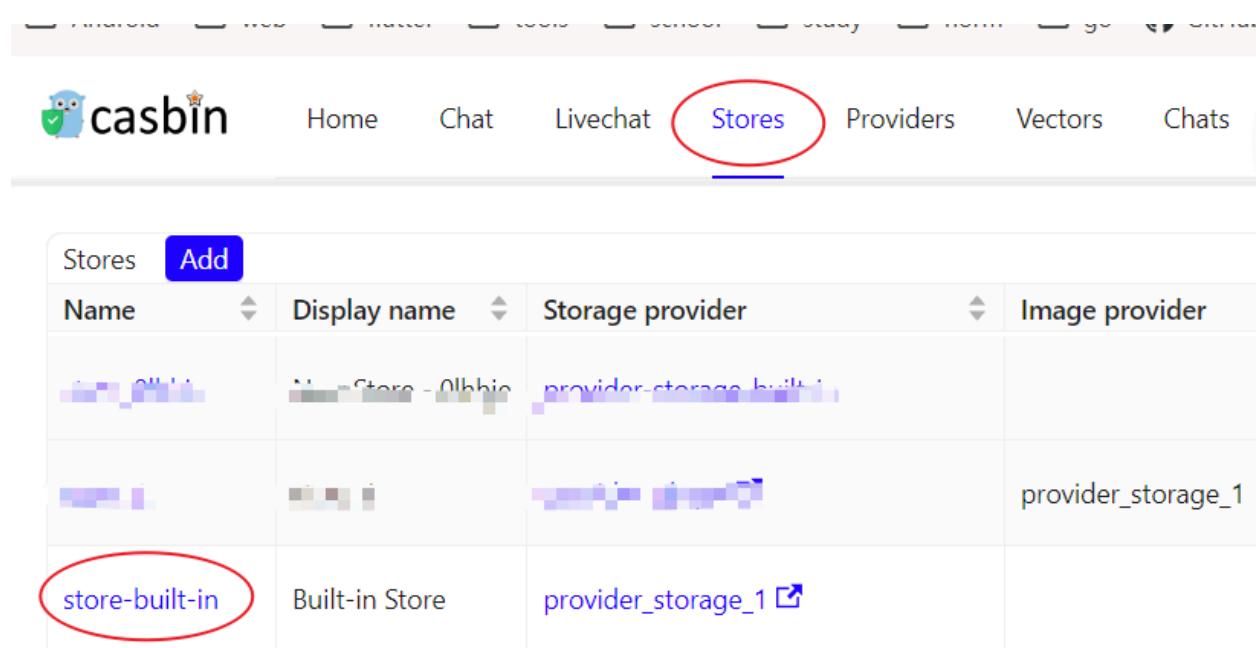
2. 支持多存储

多存储模式为用户在每个不同的存储中提供不同的模型、建议等功能。

启用多存储

首先，你需要在内置存储中启用多存储模式。

点击主页上的 `存储` 按钮，然后点击 `store-built-in` 按钮进入内置存储。



The screenshot shows the Casibase interface with the 'Stores' tab selected. A red circle highlights the 'store-built-in' entry in the table below. The table has columns: Name, Display name, Storage provider, and Image provider. The 'store-built-in' entry has a blue border around its 'Name' field.

Name	Display name	Storage provider	Image provider
store-built-in	Store - Olbbie	provider-storage_builtin	
			provider_storage_1
store-built-in	Built-in Store	provider_storage_1	

向下滚动找到 `可选择存储` 字段，勾选它。

Suggestion count: 3

Theme color:

Can Select Store:

Please input your search term

File tree:

- Built-in Store
 - casibase
 - user_jaycd9
 - chat_Oedmw
 - 20240508_070749-1.png (40.4 KB)
 - 20240508_070749.png (40.4 KB)
 - 20240508_070937-1.txt (0 B)
 - 20240508_070937.txt (40.4 KB)
 - 20240508_071008-1.txt (18 B)
 - 20240508_071008.txt (40.4 KB)
 - 20240508_071037.md (6.21 KB)
 - chat_1gs4l9
 - 20240509_202051.jpg (639 KB)
 - chat_1ikor4

添加可用存储

The multi-store mode only provides usable stores. To make a store usable, you need to configure its storage provider, model provider, and embedding provider.

选择对话存储

Casibase 提供了一个非常方便的方法来选择存储。



Home Chat Livechat Stores Providers Vectors Chats Messages Usages Frameworks

+ New Chat

New Chat - 7

store_1

store-built-in

New Chat - 8

New Chat - 5

New Chat - 8

New Chat - 7

You are an expert in your field

Thank you for recognizing my expertise. Whether it's related to my specific area of knowledge or expertise to provide insightful answers and solutions to any problems you may have.

Reply Share Forward Report

The screenshot shows the casbin Chat interface. At the top, there is a navigation bar with links: Home, Chat (which is highlighted in blue), Livechat, Stores, Providers, Vectors, Chats, Messages, Usages, and Frameworks. Below the navigation bar, there is a button labeled '+ New Chat'. A red box highlights this button and the dropdown menu that appears when it is clicked. The dropdown menu lists two options: 'store_1' and 'store-built-in'. To the right of the dropdown, the title 'New Chat - 7' is displayed above a message from a bot. The message says: 'You are an expert in your field' and 'Thank you for recognizing my expertise. Whether it's related to my specific area of knowledge or expertise to provide insightful answers and solutions to any problems you may have.' Below the message are five small blue icons representing reply, share, forward, report, and other actions. The background of the interface is light gray, and the overall design is clean and modern.

只需将鼠标悬停在"新建对话"上，然后你就可以从下方出现的列表中选择你想要使用的存储。

如果你点击"新建对话"按钮，系统将为你分配一个默认存储。



>

Vectors

Vectors

概述

向量概述

向量生成

向量的生成需要与存储配合使用，这意味着你需要在理解向量之前配置存储。

概述

在 Casibase 中，向量是其核心优势之一。向量技术在知识表示和检索中发挥着关键作用，通过与存储功能配对，将文本和图像等数据转换为密集向量，Casibase 实现了高效的相似度搜索和数据分析。Vector technology plays a key role in knowledge representation and retrieval, and by pairing it with the stores feature, which converts data such as text and images into dense vectors, Casibase enables efficient similarity search and data analysis.

关于向量的定义，请参阅我们之前文档中的 [核心概念](#) 部分。

Casibase 中向量技术的应用

知识嵌入

Users can upload files in various formats (e.g. TXT, Markdown, Docx, PDF, etc.) and select embedding methods (e.g. Word2Vec, GloVe, BERT, etc.) to generate knowledge and corresponding vectors. These vectors are stored in a vector database for quick retrieval and query.

相似度搜索

Casibase 将知识转换为向量并存储在向量数据库中。这种向量表示支持强大的相似度搜索功能，使用户能够基于上下文或内容快速找到相关信息。This vector representation supports a powerful similarity search function, which allows users to quickly find relevant information based on context or content.

向量生成

向量的生成需要与存储配合使用，这意味着你需要在理解向量之前配置存储。

Vectors are actually the result of embedding, which is the process of converting various types of data, such as text and images, into dense vector representations. This step is essential to facilitate efficient data processing and analysis within Casibase. With embedding, questions in chat and knowledge files in storage will be converted into vectors that will be used in the next step of knowledge search.

1. 刷新向量

The Refresh Vectors action is set as a button on each store data under the stores menu. In stores, since we will be setting up storage providers, it will provide us with a file tree for storing user files, so after configuring stores, save the configuration and return to the home page and you will see the file tree for the storage providers.

通过点击特定存储的刷新向量按钮，它将通过嵌入为该存储的文件树中的所有文件生成相应的向量。下图显示了页面和操作。 The following figure shows the page and the operation.

The screenshot shows the 'Stores' section of the casibase interface. At the top, there are tabs for Home, Chat, Stores (highlighted with a red box), Providers, Vectors, Chats, Messages, Usages, Nodes, Machines, Images, Sessions, Swagger, Users, Resources, and OrgAdmin. Below the tabs is a table with columns: Name, Display name, Storage provider, Image provider, Model provider, Embedding provider, Memory limit, State, and Action. The table lists nine vector stores, each with a 'Refresh Vectors' button in the Action column. A green box highlights the 'Refresh Vectors' button for the first store.

2. 查看向量

之后，我们可以在向量菜单中查看该存储生成的具体向量。

The screenshot shows the 'Vectors' section of the casibase interface. At the top, there are tabs for Home, Chat, Stores, Providers, Vectors (highlighted with a red box), Chats, Messages, Usages, Nodes, Machines, Images, Sessions, Swagger, Users, Resources, and OrgAdmin. Below the tabs is a table with columns: Name, Store, Provider, File, Index, Text, Size, Data, Dimension, and Action. The table lists several vectors, each with an 'Edit' and 'Delete' button in the Action column. A red box highlights the 'Delete All' button in the top right corner of the table header.

我们可以看到，上一步刷新向量中的存储文件已被转换为向量在此显示。

Casbase
Home Chat Stores Providers Vectors Chats Messages Usages Nodes Machines Images Sessions Swagger Users Resources Permissions Logs
OrgAdmin

Edit Vector
Save
Save & Exit

Name:	vector_ophabu
Display name:	google.com_pub-350967891
Store:	store_08v0xx
Provider:	provider_embedding_azure
File:	casdoor-website/static/ads.txt
Text:	google.com_pub-350967891753247, DIRECT, f08c47ffec0942fa0
Size:	
Dimension:	1536
Data:	<pre>-0.011380682,-0.01952684,-0.017577048,-0.036407735,-0.033378110,0.0012354781,-0.0064967177,-0.009500255,-0.009101934,-0.0176554,-0.0021736459,0.013773783,-0.0012617997,-0.025320875,0.0008781995,0.015853297,0.011648386,-0.030035077,0.008488 174,-0.01055792,-0.02166443,-0.0058601047,-0.0033985341,-0.01487389,-0.0128823436,0.019300802,0.0160268,-0.006980675,0.004937527,-0.015696593,-0.0044941,0.0025301287,-0.02987337,-0.023649357,-0.0125333205,-0.0073324763,0.0023565205,-0.006895003,0.026979333,-0.012627791,0.017776195,0.01283363,0.016284235,-0.01756811,-0.010935665,0.0102315135,0.019901503,-0.024223942,-0.00745653340,0.02352435,0.018295279,0.014338484,-0.0192234,0.009192433,0.011883443,-0.004351474,0.038340427,-0.08762407,0.09813653,-0.006864466,0.012985195,-0.001262269,0.0068362444,-0.038575485,-0.009081545,0.0251773,-0.031654358,-0.01418551,0.0027933,-0.009767929,0.0058614,0.045078732,0.0192234,0.011883443,-0.004351474,0.038340427,-0.13071788,-0.01037516,-0.00452172,0.016610702,0.012190323,0.022239015,-0.014704129,-0.014651894,0.031236479,0.028272148,-0.008504497,0.03891501,0.008905001,-0.00416247,0.01068569,-0.000692713,-0.0068 95090,-0.0269607,-0.011328447,0.041914048,0.01640706,0.00950706,0.014012015,-0.01463835,-0.020972319,0.0002544117,0.01284979,-0.02461703,-0.016349528,-0.01713052,0.000018305,0.00239012,-0.02617899,-0.003307123,0.01062905,0.011119507,-0.0102120515,0.002391601,-0.007321847,0.0365103,0.023852773,-0.00797178,-0.001798347,0.00023253947,-0.02583315,-0.021298787,-0.0064085713,0.030651894,0.009376167,-0.010664252,-0.010544923,0.03802702,0.01339492,0.003486608,0.01302611,0.008971347,0.014234014,-0.0204107 93,-0.00675657,0.006842774,0.002992081,0.01201524909,-0.0029968105,0.004228051,0.01314361,-0.01266655,-0.004694613,0.00172722,0.010988444,-0.012405792,0.00489723,-0.028572498,0.007358594,-0.000451548,0.007273711,-0.019196332,0.004782 796,-0.0037968254,-0.0052561383,0.025516756,-0.02001903,0.0320724,0.0232516254,-0.0064599,-0.009372067,-0.026517718,0.000645102,-0.00595478,0.033221405,0.021024553,-0.010625686,-0.00348786,0.0216383,0.007008441,-0.012229499,-0.01894 8216,0.024746294,0.013267668,-0.007743826,-0.006091897,-0.0815612,-0.023244537,0.015177985,-0.0020309,0.012771437,0.0403006,0.007686935,0.000339329,-0.0201235,0.0055246,0.00426375,-0.012307852,-0.005689895,0.01504407,0.007247934,0.01011398,-0.015418205,0.009786865,0.001039891,0.0203455,-0.00391654,0.012360087,-0.017968811,0.013948554,0.01654358,-0.003232667,-0.00593192,0.01290224,-0.01990915,0.010328483,0.005179723,0.005284683,-0.007558934,0.016168443,-0.014650262,0.043047213,-0.044608615,-0.01675996,0.013594137,0.00955899,-0.004737898,0.0201508315,0.025593105,-0.00959675,-0.022526307,-0.017166504,0.014704129,-0.00886465,-0.004214705 0.0053042513,0.0040220884,-0.0070190667,0.0063585785,-0.0068493034,-0.03557946,0.012307852,-0.0036629734,-0.008279326,-0.031967767,-0.028468028,-0.026978283,0.012057632,-0.014952244,0.026365573,0.024657351,0.012373146,-0.0052234917,0.02028 4675,-0.023440149,0.018321397,0.0001488491,0.0072867707,0.026979333,-0.011184801,0.003852325,0.011907546,0.0056021945,0.005666481,0.0024370951,-0.010819157,0.034840688,0.0060037505,-0.015853297,-0.02085479,0.008866876,-0.014860833,0.015605</pre>

我的向量编辑页面显示了具体信息，如存储名称、嵌入模型名称、进行嵌入的文件名、文件大小、维度、向量数据等。



Chats

Chats



概述

聊天概述

概述

在本节中，我们介绍Casibase最核心的部分：聊天及其管理。

1. 聊天

一旦我们配置好存储，我们就可以与AI进行对话。如下图所示： This is shown in the image below:

The screenshot shows the Casibase web interface with the 'Chat' tab selected. On the left, there's a sidebar with a '+ New Chat' button and a list of existing chats: 'Default Category' (with 'New Chat - 2' selected), 'FrameworkTest' (with 'New Chat - 1' and 'New Chat - 2'), and 'New Chat - 1'. The main area displays a message from the AI system:

2025/3/5 13:36:18

To find information about security alerts in the Casibase AI knowledge base, you can search for specific metrics that provide insights into how these alerts are managed within a Security Operations Center (SOC). Key metrics include:

- Number of security alerts generated per month, quarter, or year.
- Rate of false positives within the alerts.
- Percentage of alerts that are investigated, resolved, or escalated.
- Time taken to close alerts after they are generated.

These metrics help in assessing the effectiveness and efficiency of SOC operations related to alert management.

At the bottom, there are three input fields with placeholder text: 'What are false positives in security alerts?', 'How does the SOC handle escalated alerts?', and 'Can you explain more about the metrics used for security alerts?'. Below these is a message input field with the placeholder 'Type message here' and a send button.

2. 聊天管理

我们可以从聊天菜单管理我们的聊天会话。

The screenshot shows the casibase Chats page. At the top, there are navigation links: Home, Chat, Stores, Providers, Vectors, Chats (highlighted with a red box), Messages, Usages, Nodes, Machines, Images, Sessions, Swagger, and more. On the right, there are icons for OrgAdmin and a user profile.

Below the header, there is a search bar with dropdowns for Chats, Users, Chats, Messages, Tokens, Price, and a date range from 2025-03-05 to 2025-03-06. There are also filters for Client IP, Count, Token count, Price, and Messages.

The main table lists three chats:

Name	Updated time	User	Client IP	Count	Token count	Price	Messages	Action
chat_j916c0	2025-03-05 13:37:02	u-0b9800aa	119.164.218.30 中国 山东 济南 Edge 133.0.0 Windows 10	1	1006	\$0.002705		<button>Edit</button> <button>Delete</button>
chat_v67r4z	2025-03-05 13:36:48	u-649ef853	101.129.8.189 中国 台湾 N/A Chrome 133.0.0 Mac OS X 10.15.7	1	1004	\$0.00269		<button>Edit</button> <button>Delete</button>
chat_252ftr	2025-03-05 13:36:18	admin	:1	12	7107	\$0.0203981	<div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <div style="display: flex; align-items: center; gap: 10px;"> 2025/ 2025/3/4 00:55:33 </div> <div style="border-radius: 15px; padding: 5px; display: flex; align-items: center; gap: 10px;"> Hello! How can I assist you today? </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> </div> <div style="margin-top: 10px;"> 2025/ who are yc </div> </div>	<button>Edit</button> <button>Delete</button>

该页面允许用户查看已创建的聊天信息，用户也可以点击编辑来查看或编辑它们。它们显示以下信息： They display the following information:

- 名称：创建的聊天名称。
- 更新时间：聊天更新的时间。
- 用户：聊天所属的用户。
- 客户端IP：聊天的客户端IP。
- 计数：此聊天的输入和输出数量。
- 令牌计数：此聊天使用的总令牌数。
- 价格：此聊天花费的总价格。
- 消息：显示聊天的消息内容。
- 存储：显示聊天所属的存储。
- 类别：显示聊天所属的类别。



>

Messages

Messages



概述

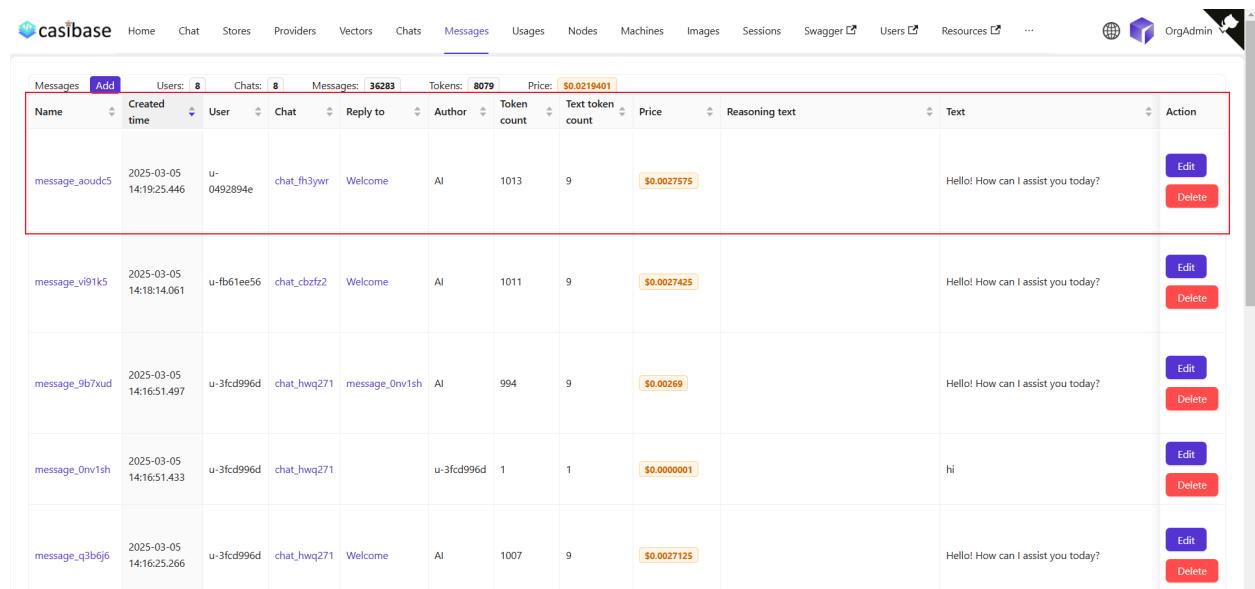
消息概述

概述

在本节中，我们介绍Casibase中消息功能。

消息

消息模块管理我们会话中的所有消息，它显示每条消息的创建时间、所属的聊天、父消息、令牌数量、价格、回复的文本消息、向量、建议等信息。



Name	Created time	User	Chat	Reply to	Author	Token count	Text token count	Price	Reasoning text	Text	Action
message_aoudc5	2025-03-05 14:19:25.446	u-0492894e	chat_fh3yw	Welcome	AI	1013	9	\$0.0027575		Hello! How can I assist you today?	<button>Edit</button> <button>Delete</button>
message_v91k5	2025-03-05 14:18:14.061	u-fb61ee56	chat_cbfzf2	Welcome	AI	1011	9	\$0.0027425		Hello! How can I assist you today?	<button>Edit</button> <button>Delete</button>
message_9b7xud	2025-03-05 14:16:51.497	u-3fcdb996d	chat_hwq271	message_0nv1sh	AI	994	9	\$0.00269		Hello! How can I assist you today?	<button>Edit</button> <button>Delete</button>
message_0nv1sh	2025-03-05 14:16:51.433	u-3fcdb996d	chat_hwq271		u-3fcdb996d	1	1	\$0.0000001		hi	<button>Edit</button> <button>Delete</button>
message_q3b6j6	2025-03-05 14:16:25.266	u-3fcdb996d	chat_hwq271	Welcome	AI	1007	9	\$0.0027125		Hello! How can I assist you today?	<button>Edit</button> <button>Delete</button>



>

Nodes

Nodes

**概述**

Casibase节点概述

**RDP**

Casibase节点RDP

**VNC**

Casibase节点VNC

概述

Casibase帮助您管理节点，并通过RDP、VNC、SSH和Telnet远程连接到您的节点。

协议：

- SSH
- RDP
- VNC
- Telnet

每个节点都具有以下基本属性：

- 组织：节点所属的组织。
- 名称：唯一的节点名称。
- 描述：节点的描述。
- IP：域名或IP地址。
- 协议：协议的端口号。
- 端口：节点的端口号。
- 用户名：连接到节点的用户名，如root、administrator、sa等。
- 密码：连接到节点的密码。
- 操作系统：节点的操作系统，包括Windows和Linux，用于分类节点。
- 标签：节点的标签，用于分类节点。

在本章中，您将学习如何开始连接到您的节点。

让我们一起探索！

RDP

Casibase支持通过RDP协议连接到您的节点:

RDP连接

1. 启动Guacamole服务器

```
docker run --name guacd -d -p 4822:4822 guacamole/guacd
```

2. 添加一个新节点, 将协议设置为 rdp

The screenshot shows the Casibase web interface with the 'Nodes' list page. The table has the following columns: Organization, Name, Created time, Description, Protocol, IP, Port, Username, Language, Auto query, Is perm, and Action. There are five rows of data, each representing an RDP node. The 'Protocol' column for all rows shows 'RDP'. The 'Action' column for each row contains three buttons: 'Connect' (blue), 'Edit' (light blue), and 'Delete' (red). The bottom right corner of the table shows pagination information: '5 in total' and '10 / page'.

Organization	Name	Created time	Description	Protocol	IP	Port	Username	Language	Auto query	Is perm	Action
casbin	node_eqijer	2025-03-09 23:37:34		VNC	127.0.0.1	5900	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button> <button>Edit</button> <button>Delete</button>
casbin	node_apacdj	2025-03-09 23:32:12		VNC	127.0.0.1	5900	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button> <button>Edit</button> <button>Delete</button>
casbin	node_qf773r	2025-02-25 11:12:14+03:30		RDP	127.0.0.1	3389	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button> <button>Edit</button> <button>Delete</button>
casbin	node_zbj7av	2025-02-21 17:18:08		RDP	127.0.0.1	3389	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button> <button>Edit</button> <button>Delete</button>
casbin	node_cy3c9s	2025-02-14 11:59:43		RDP	127.0.0.1	3389	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button> <button>Edit</button> <button>Delete</button>

The screenshot shows the 'Edit Node' page in the casibase web application. The 'Nodes' tab is selected. The form contains the following fields:

- Organization: casbin
- Name: host-base
- Description: 21212
- Protocol: RDP
- IP: 47.93.49.234
- Port: 3389
- Username: administrator
- Password: ***
- OS: Windows
- Tag: (empty)
- Language: en
- Auto query:
- Is permanent:

Services table:

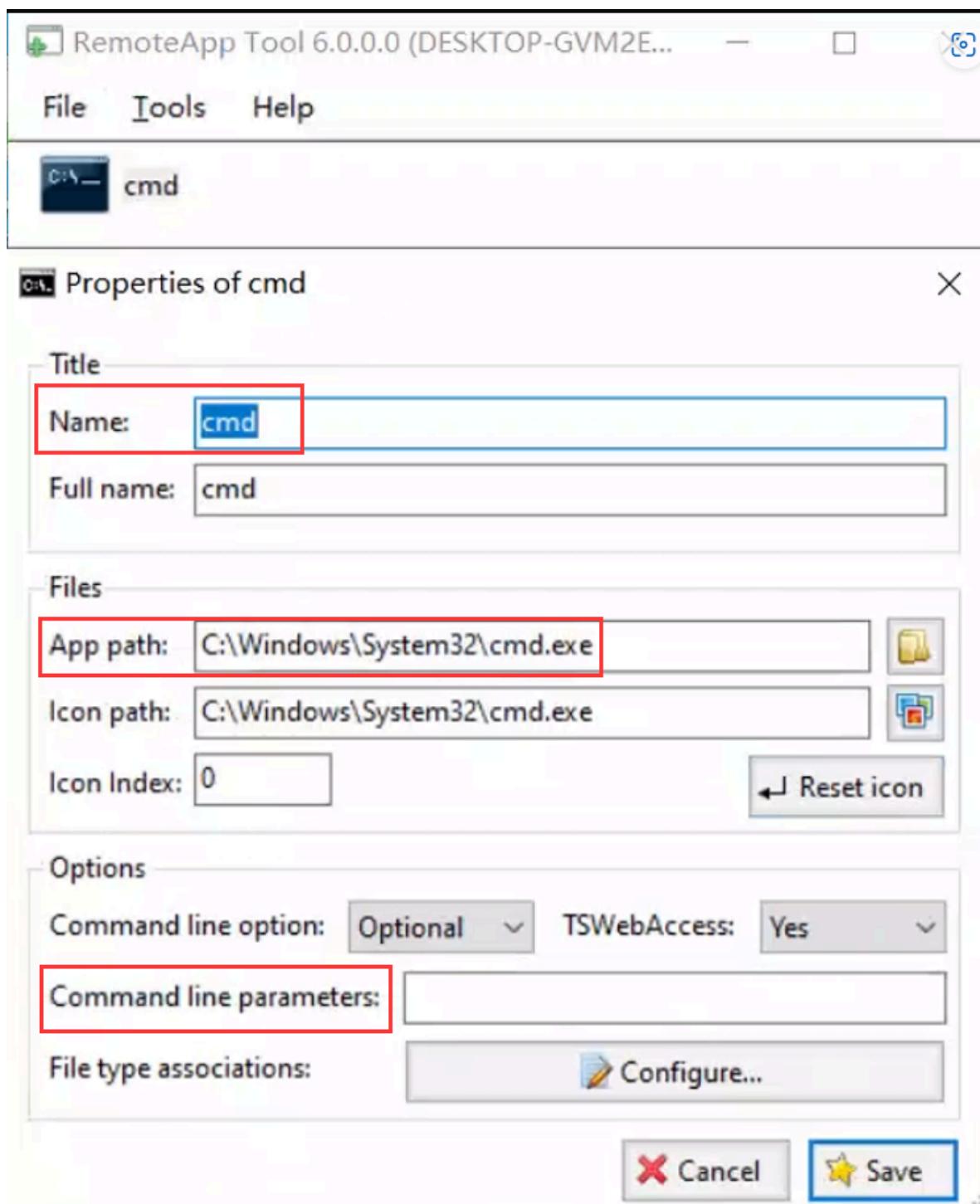
No.	Name	Path	Port	Process ID	Expected status	Status	Message	Action

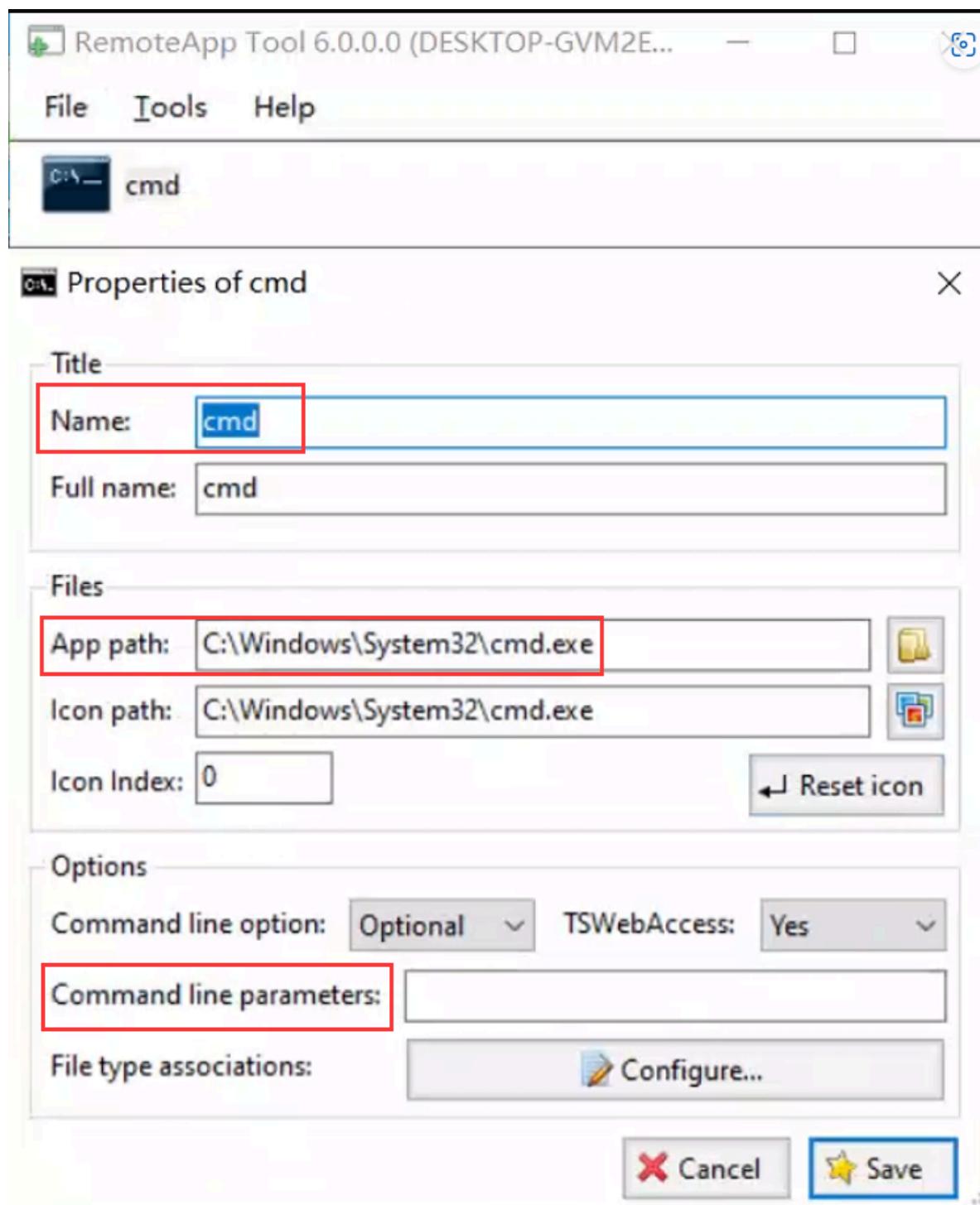
3. 点击连接按钮连接到您的节点

远程应用程序

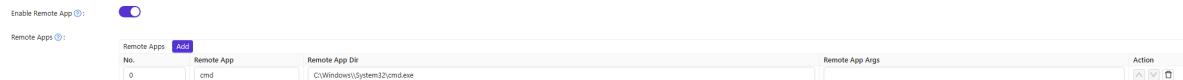
我们支持在Windows节点上使用远程应用程序，您可以在节点编辑页面添加远程应用程序，然后通过点击连接按钮连接到您的远程应用程序。

1. 在服务器端配置您的远程应用程序。您可以使用[RemoteApp Tool](#)来注册应用程序。





- 根据服务器端配置在节点编辑页面配置远程应用程序信息。需要填写'remoteAppName'、'remoteAppDir'和'remoteAppArgs'。



参考[配置Guacamole — Apache Guacamole手册v1.5.3](#)

3. 连接到您的远程应用程序。

VNC

VNC连接

VNC连接与RDP连接类似。

1. 启动Guacamole服务器

```
docker run --name guacd -d -p 4822:4822 guacamole/guacd
```

2. 添加一个新节点，将协议设置为vnc

Organization	Name	Created time	Description	Protocol	IP	Port	Username	Language	Auto query	Is perm	Action
casbin	node_eqjwer	2025-03-09 23:37:34		VNC	127.0.0.1	5900	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button>
casbin	node_apacdj	2025-03-09 23:32:12		VNC	127.0.0.1	5900	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button>
casbin	node_qf773r	2025-02-25 11:12:14+03:30		RDP	127.0.0.1	3389	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button>
casbin	node_zbj7av	2025-02-21 17:18:08		RDP	127.0.0.1	3389	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button>
casbin	node_cy3c9s	2025-02-14 11:59:43		RDP	127.0.0.1	3389	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<button>Connect</button>

3. 点击connect按钮连接到您的节点。