



# Overview

Casibase is an open-source [Domain Knowledge](#) Database & IM & Forum Software powered by [ChatGPT](#).

You need to enable JavaScript to run this app.

## Casibase features

1. With a separate front-end and back-end architecture developed in Golang,

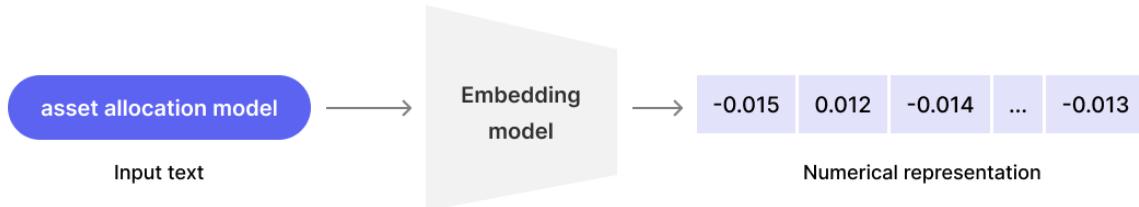
Casibase supports high concurrency, provides web-based management UI and supports multiple languages (Chinese, English).

2. Casibase supports third-party application login, such as GitHub, Google, QQ, WeChat, etc., and supports the extension of third-party login with plugins.
3. Based on embedding and prompt engineering for knowledge management, Casibase supports customized embedding methods and language models.
4. Casibase supports integration with existing systems by db sync, so users can transition to Casibase smoothly.
5. Casibase supports mainstream databases: MySQL, PostgreSQL, SQL Server, etc., and supports the extension of new databases with plugins.
6. Casibase is a powerful tool for asset management, enabling easy connection to assets via RDP, VNC, and SSH protocols and efficient handling of remote connections to machines.
7. Casibase's Security Log Auditing feature allows you to effortlessly track and monitor remote connections with detailed audit logging, recording connection start time, duration, and other relevant details, and also enables you to capture and analyze API logs for Casdoor operations, enhancing security and operational transparency.
8. Casibase supports database management. Casibase's Database Management feature allows you to easily connect, manage, and organize databases while controlling access and simplifying user management and authorization for database resources.

# How it works

## Step 0 (Pre-knowledge)

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.



## Step 1 (Importing Knowledge)

To get started with Casibase, users need to follow these steps to import knowledge and create a domain-specific knowledge database:

- 1. Configure Storage:** In the Casibase dashboard, users should first configure the storage settings. 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.
- 2. Upload Files to Storage:** Once the storage is set up, users can proceed to upload files containing domain-specific knowledge into the configured storage system. These files can be in various formats, such as text

documents, images, or structured data files like CSV or JSON.

3. **Select Embedding Method for Knowledge Generation:** After the files are uploaded, users have the option to choose the embedding method for generating knowledge and corresponding vectors. Embeddings are numerical representations of textual or visual content, which facilitate efficient similarity search and data analysis.



提示

How knowledge is embedded?

- For textual data: Users can choose from various embedding methods, such as Word2Vec, GloVe, or BERT, to convert the textual knowledge into meaningful vectors.
- For visual data: If the uploaded files contain images or visual content, users can select image embedding techniques like CNN-based feature extraction to create representative vectors.
- More methods coming soon...

By following these steps, users can populate their domain knowledge database with relevant information and corresponding embeddings, which will be used for effective searching, clustering, and retrieval of knowledge within Casibase. 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.

## Step 2 (Retrieving Knowledge)

After importing your domain knowledge, Casibase transforms it into vectors and stores these vectors in a vector database. 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.

## Step 3 (Building the Prompt)

Casibase performs a similarity search on the stored knowledge vectors to find the closest match to the user's query. 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.

## Step 4 (Achieving the Goal)

At this stage, using Casibase, you have successfully acquired the knowledge you sought. Through the innovative combination of domain knowledge transformed into vectors and powerful language models like ChatGPT, Casibase provides you with accurate and relevant responses to your inquiries. This enables you to efficiently access and utilize the domain-specific information stored in Casibase, meeting your knowledge requirements with ease.

## Step 5 (Optional Fine-tuning)

If you find that the results are not entirely satisfactory, you can try to get better results by doing the following:

- Tweaking Language Model Parameters
- Asking multiple questions
- Optimizing the original files

By utilizing these fine-tuning options, you can improve the efficiency of your knowledge management in Casibase, ensure that the system is better aligned with your goals, and provide more accurate and insightful information.

#### HINTS

Other ways to optimize results (may require source code changes):

- Updating **Embedding** Results: Refine the knowledge representation by adjusting the embedding results of your domain knowledge.
- Modifying **Prompt** Templates: By customizing the prompts, you can elicit more precise responses from the language model.
- Exploring Different **Language Models**: Experiment with different models to find the one that best suits your requirements for generating responses.

## Online demo

### Read-only site (any modification operation will fail)

- Chat bot (<https://ai.casibase.com>)
- Admin UI (<https://ai-admin.casibase.com>)

## Writable site (original data will be restored for every 5 minutes)

- Chat bot (<https://demo.casibase.com>)
- Admin UI (<https://demo-admin.casibase.com>)

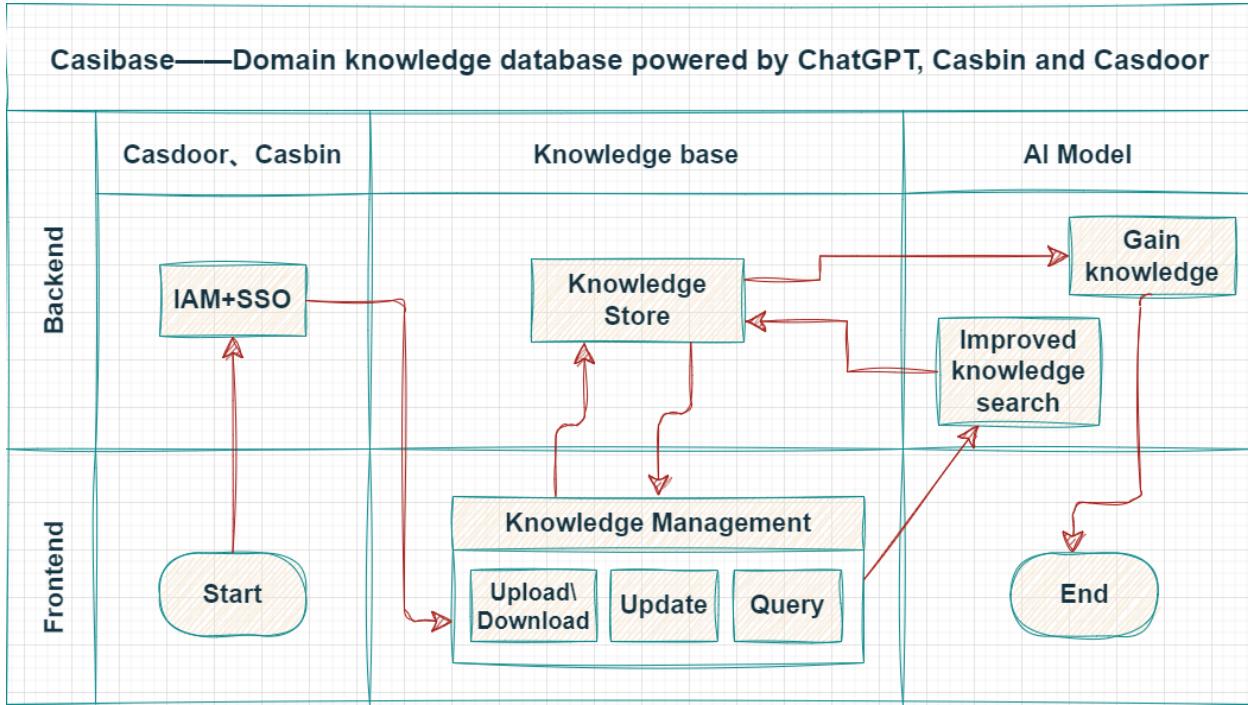
Global admin login:

- Username: `admin`
- Password: `123`

## Architecture

Casibase contains 2 parts:

| Name     | Description                                 | Language               | Source code   |
|----------|---|------------------------|---|
| Frontend | User interface for the casibase application | JavaScript + React     | <a href="https://github.com/casibase/casibase/tree/master/web">https://github.com/casibase/casibase/tree/master/web</a> |
| Backend  | Server-side logic and API for casibase      | Golang + Beego + MySQL | <a href="https://github.com/casibase/casibase">https://github.com/casibase/casibase</a>                                 |



# Supported Models

## Language Model

| Model  | Sub Type  | Link                   |
|--------|---|------------------------|
| OpenAI | gpt-4-32k-0613, gpt-4-32k-0314,<br>gpt-4-32k, gpt-4-0613, gpt-4-0314, gpt-4,<br>gpt-3.5-turbo-0613, gpt-3.5-turbo-0301,<br>gpt-3.5-turbo-16k, gpt-3.5-turbo-16k-0613,<br>gpt-3.5-turbo, text-davinci-003, text-<br>davinci-002, text-curie-001, text-<br>babbage-001, text-ada-001, text-<br>davinci-001, davinci-instruct-beta, davinci,<br>curie-instruct-beta, curie, ada, babbage | <a href="#">OpenAI</a> |

| Model        | Sub Type   | Link                         |
|--------------|--|------------------------------|
| Hugging Face | meta-llama/Llama-2-7b, tiuae/falcon-180B, bigscience/bloom, gpt2, baichuan-inc/Baichuan2-13B-Chat, THUDM/chatglm2-6b   | <a href="#">Hugging Face</a> |
| 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  | <a href="#">Claude</a>       |
| 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, gpt-4-32k, claude-2, claude-instant-v1, llama-2-13b-chat, llama-2-70b-chat | <a href="#">OpenRouter</a>   |
| Ernie        | ERNIE-Bot, ERNIE-Bot-turbo, BLOOMZ-7B, Llama-2   | <a href="#">Ernie</a>        |
| iFlytek      | spark-v1.5, spark-v2.0   | <a href="#">iFlytek</a>      |
| ChatGLM      | chatglm2-6b  | <a href="#">ChatGLM</a>      |
| MiniMax      | abab5-chat   | <a href="#">MiniMax</a>      |

| Model | Sub Type     | Link           |
|-------|--------------|----------------|
| Local | custom-model | Local Computer |

## Embedding Model

| Model        | Sub Type   | Link           |
|--------------|--|----------------|
| 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, embed-multilingual-v2.0  | Cohere         |
| Ernie        | default  | Ernie          |
| Local        | custom-embedding   | Local Computer |

# Core Concepts

As Casibase's user, you should get familiar with at least 4 core concepts:  
`Provider`, `Storage`, `Chat` and `Vector`.

## Providers

Providers are the backbone of Casibase, offering essential services and integration with external systems. 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"`
}
```



提示

There are two primary types of providers in Casibase:

- **Storage Providers.** The Storage Providers facilitates the storage and retrieval of data within Casibase. It supports various storage options, including:
  - AWS
  - Azure
  - Local File System
- **AI Providers.** The AI Providers are responsible for handling AI-related tasks and services in Casibase. It supports multiple AI models and technologies, including:
  - OpenAI
  - ChatGLM
  - InternLM

## Vectors

Vectors in Casibase represent numerical representations of different types of data. These vectors enable efficient processing and analysis of information. Some of the vector types available are:

- Text Vector
- Image Vector
- ... (other vector types)

The Vector class definition is shown as follows:

```
type Vector struct {
```

# Chats

Chats are at the core of interactive communication between users and the AI models in Casibase. They consist of three essential components:

- Question: The user's input or query, seeking information or assistance.
- Query Prompt: A formatted version of the user's question, prepared for processing by the AI models.
- Answer: The AI-generated response to the user's question, providing relevant information or solutions.

The Chat class definition is shown as follows:

```
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"`
}
```

# 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.



提示

- By embedding, the questions in chat and the knowledge files in storage will be turned into vectors and used in the next step of knowledge search.
- Casibase's default embedding method is provided by OpenAI at a rate of up to three calls per minute. We recommend minimizing coupling between knowledge files to facilitate embedding and further processing.

# Server Installation

## Requirements

### OS

All major operating systems including Windows, Linux and macOS are supported.

### Environment

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

#### 信息

The use of Casibase is divided into two steps:

- step1: [Deploy and run Casdoor](#)
- step2: Deploy and run Casibase (this docs)

We strongly suggest you use [Yarn 1.x](#) to run & build Casdoor&Casibase frontend, using NPM might cause UI styling issues, see more details at: [casdoor#294](#)

#### 警告

For Chinese users, in order to download the Go dependency packages

successfully, you need to use a Go proxy by Configuring the GOPROXY environment variable. We strongly recommend: <https://goproxy.cn/>

## Database

Casibase uses [XORM](#) to talk to the database. Based on [Xorm Drivers Support](#), Casibase currently provides support for the following databases:

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

## guacd

Casibase uses guacamole-server to provide remote desktop access. 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](#).

You can also run guacd in docker with the following command:

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

# Download

The source code of Casibase is hosted at GitHub: <https://github.com/casibase/casibase>. Both the Go backend code and React frontend code are inside the single repository.

| Name     | Description                      | Language              | Source code   |
|----------|----------------------------------|-----------------------|---|
| Frontend | Web frontend UI for Casibase     | JavaScript + React    | <a href="https://github.com/casibase/casibase/tree/master/web">https://github.com/casibase/casibase/tree/master/web</a> |
| Backend  | RESTful API backend for Casibase | Golang + Beego + XORM | <a href="https://github.com/casibase/casibase">https://github.com/casibase/casibase</a>                                 |

Casibase supports [Go Modules](#). To download the code, you can just simply clone the code via git:

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

# Configuration

## Configure Casdoor

Please refer to [Casdoor-SSO](#) section to configure Casdoor.

Remember your `clientId`, `clientSecret`, `organization`, `application` and so on in Casdoor configuration, we will use them later.

## Configure Database

Casibase supports mysql, mssql, sqlite3, postgres. Casibase uses mysql by default.

### MySQL

Casibase will store its users, nodes and topics information in a MySQL database named: `casibase`. 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

Since we must choose a database when opening Postgres with xorm, you should prepare a database manually before running Casibase.

Let's assume that you have already prepared a database called `casibase`, then you should specify `app.conf` like this:

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

### ① 信息

For PostgreSQL, make sure `dataSourceName` has non-empty `dbName` and leave the standalone `dbName` field empty like the above example.

## CockroachDB

You can also use Cockroachdb with postgres driver. 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 =
```

### ① 信息

For CockroachDB, don't forget to add

`serial_normalization=virtual_sequence` to the `dataSourceName` like the above example. otherwise you will get error regarding existed database, whenever the service starts or restarts. Notice, this must be added before the database created.

## Sqlite3

You should specify `app.conf` like this:

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

## Custom configuration

Casibase supports custom configuration, you can modify the configuration file `conf/app.conf` to change the configuration.

- Backend (`conf/app.conf`)

```
casdoorEndpoint = <Your Casdoor endpoint>
clientId = <Your Casdoor application's client ID>
clientSecret = <Your Casdoor application's client secret>
casdoorOrganization = <Your Casdoor organization name>
casdoorApplication = <Your Casdoor application name>
```

- Frontend (`web/src/Conf.js`)

```
serverUrl: "<Your Casdoor endpoint>"
clientId: "<Your Casdoor application's client ID>"
appName: "<Your Casdoor application name>"
organizationName: "<Your Casdoor organization name>"
```

## Run

There are currently two methods to start, you can choose one according to your own situation.



警告

Casibase requires Casdoor to provide access control and some back-end services, so you must make sure Casdoor is running properly before

running Casibase.

How to install and run Casdoor:

- [Casdoor Installation](#)

## Development mode

### Backend

Casibase's Go backend runs at port 14000 by default. You can start the Go backend with the following command:

```
go run main.go
```

After the server is successfully running, we can start the frontend part.

### Frontend

Casibase's frontend is a very classic [Create-React-App \(CRA\)](#) project. It runs at port `13001` by default. Use the following commands to run the frontend:

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

## Production mode

### Backend

Build Casibase Go backend code into executable and start it.

For Linux:

```
go build  
./casibase
```

For Windows:

```
go build  
casibase.exe
```

## Frontend

Build Casibase frontend code into static resources (.html, .js, .css files):

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

## Nginx



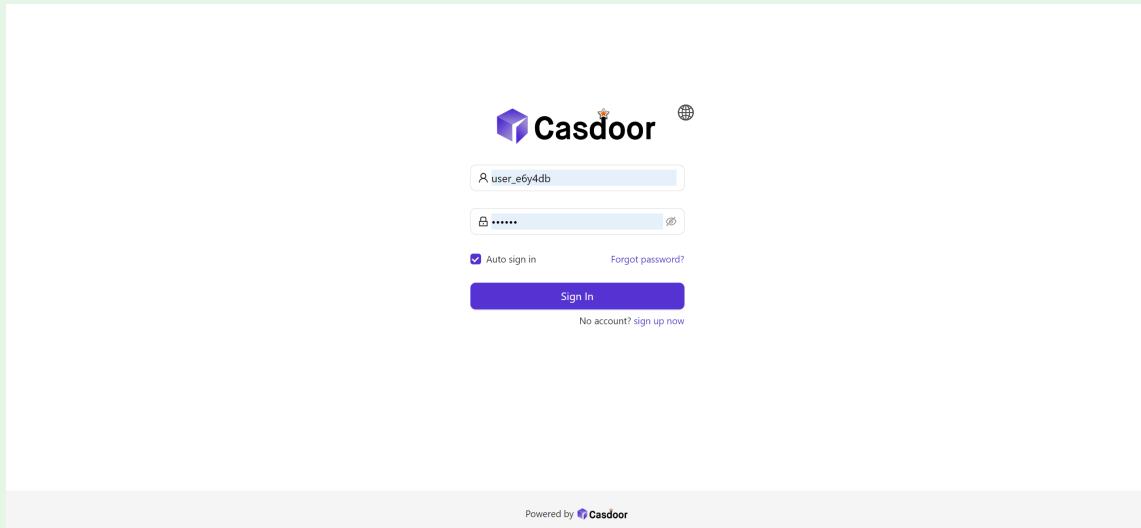
If you use nginx as a reverse proxy, you need to add the following configuration to the nginx configuration file:

```
location / {  
    *** your configuration ***  
    proxy_set_header Upgrade $http_upgrade;  
    proxy_set_header Connection "upgrade";  
}
```

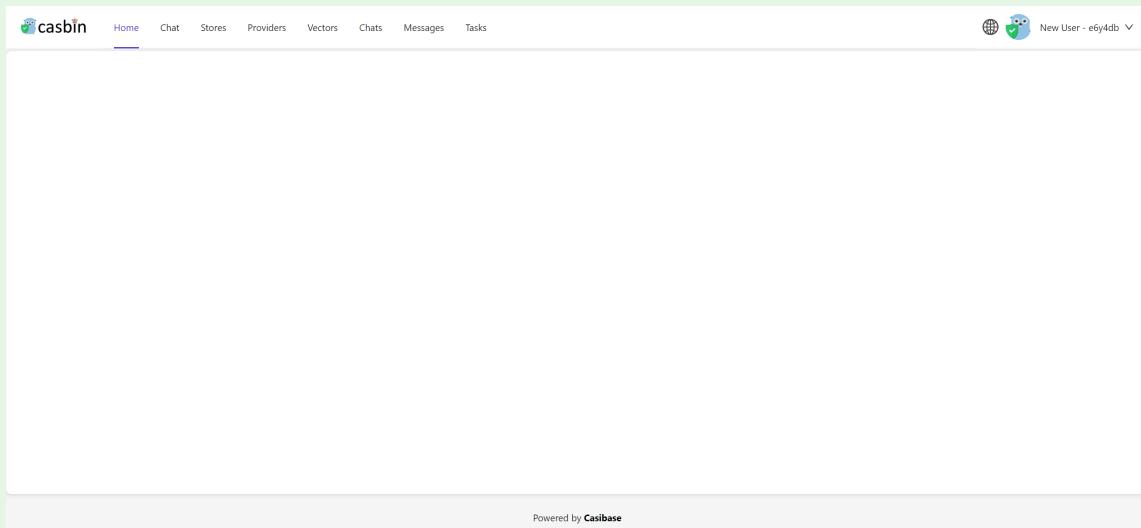
Because Casibase uses websocket to communicate with guacd.

## Preview

Visit: <http://localhost:13001> in your browser. Login into Casibase dashboard with the user account you have just registered in Casdoor:



Then you will go to the home page of Casibase:



To use another port, please edit `conf/app.conf` and modify `httpport`, then restart the Go backend.

:::

# (Optional) Try with Docker

## Requirements

### Hardware

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.

If you only need to run the pre-built image, please ensure that your machine has at least 100MB of memory.

### OS

All operating systems (Linux, Windows, and macOS) are supported.

### Docker

You can use Docker (docker-engine version  $\geq$  17.05) in Linux or Docker Desktop in Windows and macOS.

- [Docker](#)

Regardless of the operating system, users must ensure that they have docker-engine version  $\geq$  17.05. This is because we utilize the multi-stage build feature in the docker-compose.yml, which is supported in versions 17.05 and above. For more information, see <https://docs.docker.com/develop/develop-images/>

[multistage-build/](#).

If you use docker-compose, please ensure you have docker-compose version >= 2.2. For Linux users, note that docker-compose needs to be installed separately from docker-engine.

## Get the image

We have provided two DockerHub images:

| Name                                | Description  | Suggestion  |
|-------------------------------------|--|---|
| <a href="#">casibase-all-in-one</a> | Both Casibase and a MySQL database are included in the image | This image already includes a toy database and is only for testing purposes |
| <a href="#">casibase</a>            | Only Casibase is included in the image                       | This image can be connected to your own database and used in production     |

1. [casbin/casibase-all-in-one](#): This image includes the casibase binary, a MySQL database, and all the necessary configurations. 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.

### Option-1: Use the toy database

Run the container with port [14000](#) exposed to the host. 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. Log into the Casibase dashboard with the default global admin account: `built-in/admin`

```
admin  
123
```

## Option-2: Try with docker-compose

Create a `conf/app.conf` directory in the same directory level as the `docker-compose.yml` file. Then, copy `app.conf` from Casibase. For more details about `app.conf`, you can see [Via Ini file](#).

Create a separate database using docker-compose:

```
docker-compose up
```

That's it! ✈

Visit <http://localhost:14000> in your browser. Log into the Casibase dashboard with the default global admin account: `built-in/admin`

```
admin  
123
```

*Note: If you dig deeper into the docker-compose.yml file, you may be puzzled by the environment variable we created called "RUNNING\_IN\_DOCKER". 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.*

## Option-3: Try directly with the standard image



提示

If it is not convenient to mount the configuration file to a container, using environment variables is also a possible solution.

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

Then run

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

Anyway, just mount the app.conf to /conf/app.conf and start the container.

Visit <http://localhost:14000> in your browser. Log into the Casibase dashboard with the default global admin account: `built-in/admin`

admin

123

# Beginner Guide

## Add a Storage Provider

Discover how to integrate a storage provider with Casibase.

## Add an AI Model Provider

Learn how to add a model provider to enhance Casibase functionality.

## Add an Embedding Provider

Explore how to integrate an embedding provider with Casibase.

## Add a Store

Learn how to add a store to your Casibase knowledge base system.



## Chats with AI

Implement AI chat functionality in your Casibase knowledge base system.

# Add a Storage Provider

This document is a step-by-step tutorial designed for beginners. It will guide you through the process of integrating a storage provider with Casibase, our powerful knowledge base system.

## Introduction

Adding a storage provider to Casibase enables you to efficiently manage and store data, making it an essential component for your knowledge base system.

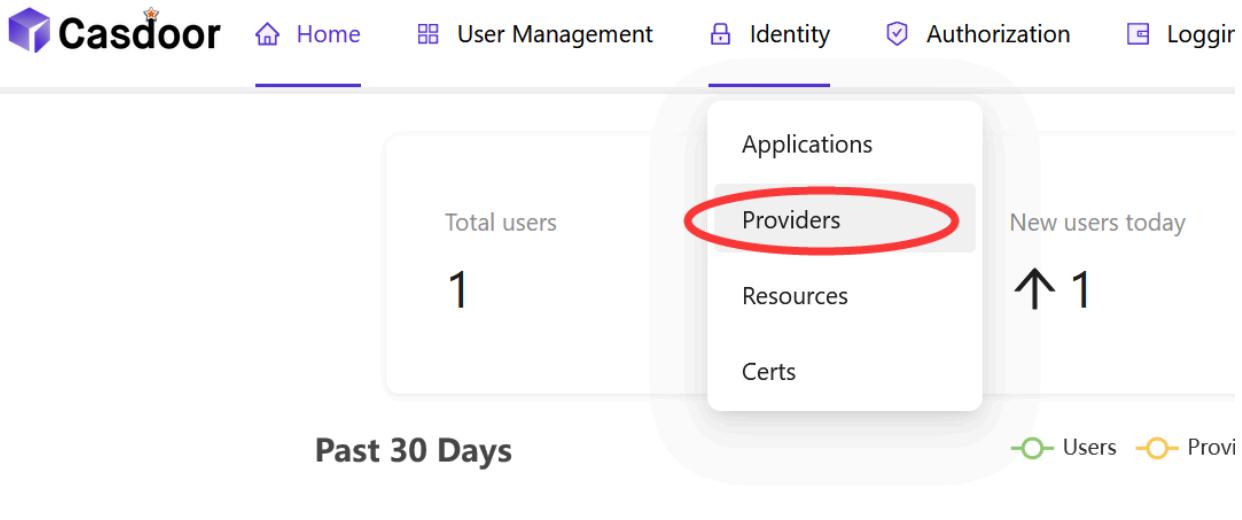
If you're new to integrating storage providers, don't worry. We've broken down the process into simple steps that anyone can follow.

## Step 1: Deploy Casdoor and Casibase

If you haven't done, please refer to the [Deploy Casdoor and Casibase tutorial](#).

## Step 2: Add a New Storage Provider

Storage providers are used to store data. They can be added in Casdoor by clicking the [Identity - Providers](#) button on the home page.



## Step 2.1: Add a storage provider

Click the **Add** button to add a storage provider.

The screenshot shows the "Providers" list page. The "Identity" tab is selected. At the top left, there's a "Providers" header and a blue "Add" button, which is circled in red. The table below lists one provider entry:

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

## Step 2.2: Fill in the storage provider information

Fill in the storage provider information and click the **Save & Exit** button.

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

Name [?](#) :  provider\_storage\_1

Display name [?](#) :  Provider\_storage\_1

Organization [?](#) :

Category [?](#) :  Storage

Type [?](#) : aws AWS S3

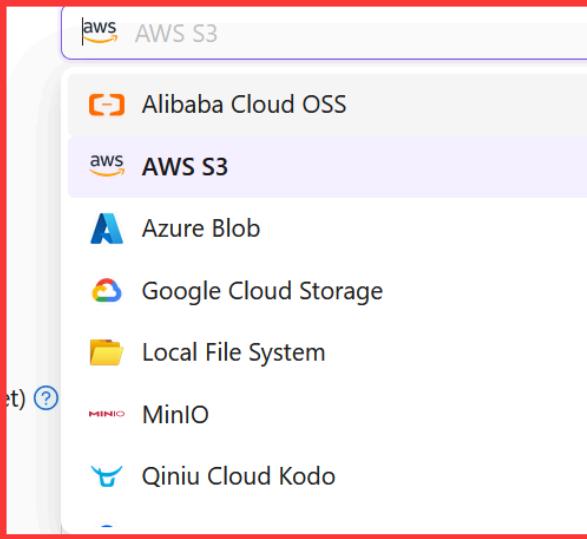
Client ID [?](#) :

Client secret [?](#) :

Endpoint [?](#) :

Endpoint (Intranet) [?](#) :

Bucket [?](#) :



- aws AWS S3
- Alibaba Cloud OSS
- aws AWS S3
- A Azure Blob
- Google Cloud Storage
- Local File System
- MINIO MinIO
- Qiniu Cloud Kodo

 提示

Casdoor supports many storage providers, including:

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

- [Qiniu Cloud Kodo](#)
- [Alibaba Cloud OSS ...](#)

## Example

Add an Aliyun OSS storage provider



- 警告**
- Client ID: The AccessKey ID of your Aliyun OSS account.
  - Client Secret: The AccessKey Secret of your Aliyun OSS account.

\*\*\*\*\* is the placeholder for your Aliyun OSS account information.

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](#)

### Step 2.3: View the storage provider

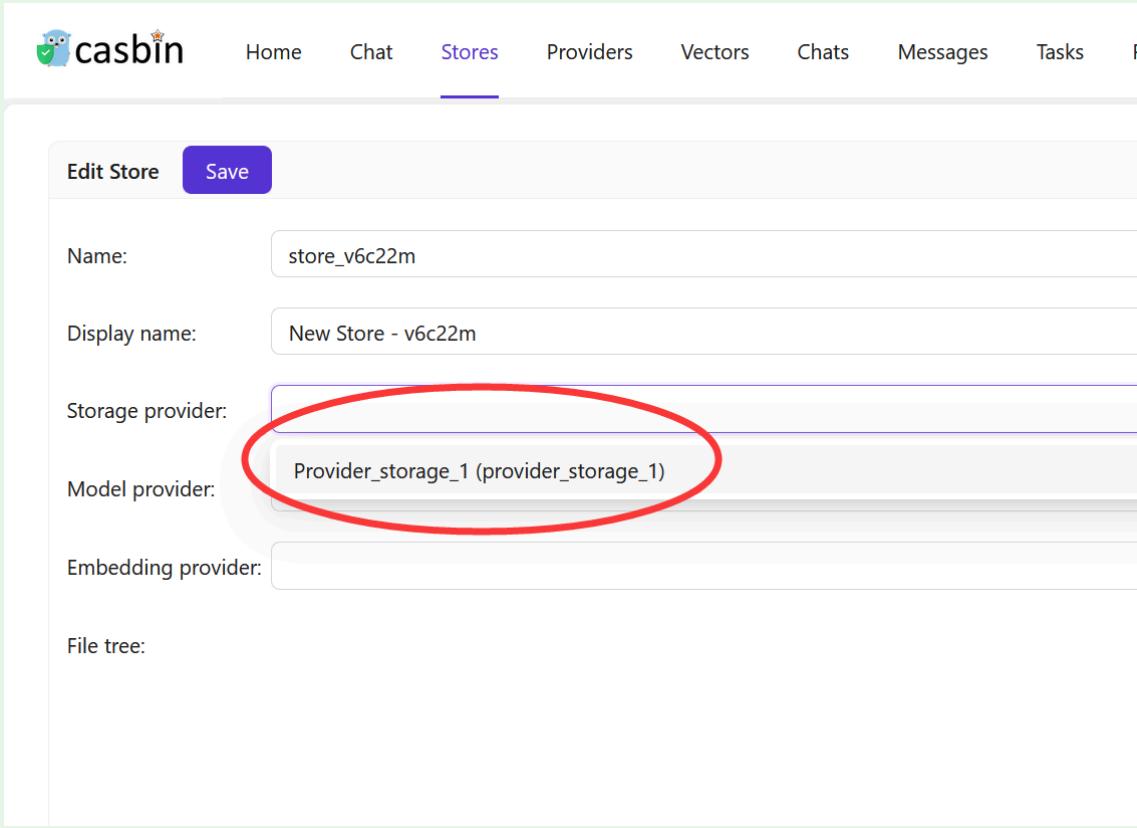
After adding the storage provider, you can view the storage provider information.

| 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... | <a href="#">Edit</a> <a href="#">Delete</a> |



Storage providers come from Casdoor. You can add a storage provider in Casdoor and then add it to Casibase.

Refer to [Step 2: Add a New Storage Provider](#) for more information.



The screenshot shows the Casbin web application interface. At the top, there is a navigation bar with links: Home, Chat, Stores (which is underlined), Providers, Vectors, Chats, Messages, Tasks, and a user icon. 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)" highlighted by a red oval.
- Model provider: (empty)
- Embedding provider: (empty)
- File tree: (empty)

At the top left of the form, there is a "Save" button.

## Store Example

[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:

Save the configuration, return to the home page, and you'll see the file-tree of the storage provider.

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

Now you can manage your data in Casibase.

In the next chapter, we'll learn how to add an AI model provider to Casibase.

# Add an AI Model Provider

This document is a step-by-step tutorial designed for beginners. It will guide you through the process of integrating a model provider with Casibase, our powerful knowledge base system.

## Introduction

Adding a model provider to Casibase enables you to enhance its functionality by incorporating machine learning models and AI capabilities. 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.

## Step 1: Deploy Casdoor and Casibase

Before you can add an AI model provider, make sure you have Casdoor and Casibase deployed. If you haven't done, please refer to the [Deploy Casdoor and Casibase tutorial](#).

## Step 2: Add a New Model Provider

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

Click the [Providers](#) button on the home page.

The screenshot shows the casibase interface with the 'Providers' tab selected. The page displays a table of providers with the following columns: Name, Display name, Category, Type, Sub type, API key, Secret key, and Provider URL. The data includes:

| 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 | AKIDObZHjqUrxNltkKdfQvAWcS1JK4XidG | ***        | <a href="https://console.cloud.tencent.com/tbaas/chainmaker/demo/basic">https://console.cloud.tencent.com/tbaas/chainmaker/demo/basic</a>                                   |
| provider_model_alibabacloud_deeplearning_r1 | Provider Model AlibabaCloud DeeSeek-R1 | Model        | Alibaba Cloud                     | deeplearning-r1  |                                    | ***        | <a href="https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2">https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2</a> |
| provider_cloud_alibabacloud                 | Provider Cloud AlibabaCloud            | Public Cloud | Aliyun                            | text-davinci-003 | LTAl5tHkUsopAioN6xx2LMg            | ***        | <a href="https://ecs.console.aliyun.com/server/i-2zed8cgb9o0wwmc2ku6/detail?regionId=c">https://ecs.console.aliyun.com/server/i-2zed8cgb9o0wwmc2ku6/detail?regionId=c</a>   |
| dall-e-3                                    | dall-e-3                               | Model        | OpenAI                            | dall-e-3         |                                    | ***        | <a href="https://platform.openai.com/account/api-keys">https://platform.openai.com/account/api-keys</a>   |
| provider_model_azure_gpt4_1                 | Provider Model Azure GPT-4             | Model        | Azure                             | gpt-4o           | deployment-gpt-4o                  | ***        | <a href="https://openaicasdoorsweden.openai.azure.com/">https://openaicasdoorsweden.openai.azure.com/</a>   |

## Step 2.1: Add a Model Provider

Click the **Add** button to add a model provider.

The screenshot shows the casbin interface with the 'Providers' tab selected. The page displays a table with the following columns: Name, Display name, Category, Type, Sub type, API key, Secret key, Provider URL, and Action. The 'Add' button in the top-left corner is highlighted with a red circle. The table shows 'No data'.

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

## Step 2.2: Fill in Model Provider Details

Fill in the model provider details and click the **Save & Exit** button.

[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](#)

Casibase supports many model providers, including:

- [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
  - .....

### ⚠ 警告

- Category: The first-level category of the model provider. For example, `Model` and `Embedding`.
- Type: The second-level category of the model provider. For example, `OpenAI` and `Hugging Face`.
- SecretKey: The secret key of your OpenAI account.

### Example

## Add an OpenAI model provider

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

- Name: provider\_openai\_model
- Display name: OpenAI model
- Category: Model
- Type: OpenAI (highlighted by a red circle)
- Sub type: OpenAI (selected in a dropdown menu)
- Secret key: (empty)
- Provider URL: <https://platform.openai.com/account/api-keys>

A red circle highlights the 'Type' field and the 'OpenAI' option in the dropdown menu.

### ⚠️ 警告

Some models don't support streaming-output. Known models that support streaming-output include:

- gpt-3.5-turbo-0613

After adding a model provider, you can use it to analyze and process data in Casibase using chatbots, question answering, and other AI capabilities.

Return to the model provider list page:



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

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

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

Now that you've added a model provider, you can use it to analyze and process data in Casibase using chatbots, question answering, and other AI capabilities.

In the next chapter, we'll learn how to add an embedding provider to Casibase.

# Add an Embedding Provider

This document is a step-by-step tutorial designed for beginners. It will guide you through the process of integrating an embedding provider with Casibase, our powerful knowledge base system.

## Introduction

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.

Refer to the [Core Concepts](#) section of our previous documentation for more information about embedding.

In Casibase, you can add an embedding provider by following these steps:

### Step 1: Deploy Casdoor and Casibase

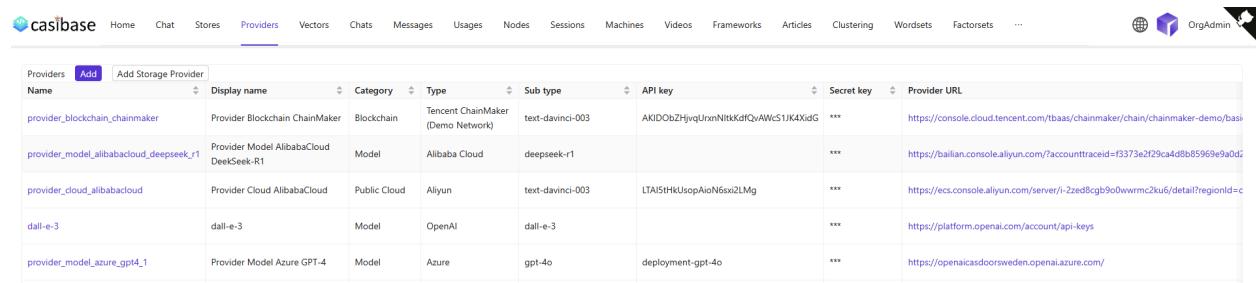
Before you can add an embedding model provider, make sure you have Casdoor and Casibase deployed. If you haven't done, please refer to the [Deploy Casdoor and Casibase](#) tutorial.

### Step 2: Add a New Embedding Provider

Embedding providers are used to integrate embedding into Casibase. You can add

them by following these steps:

Click the **Providers** button on the home page.

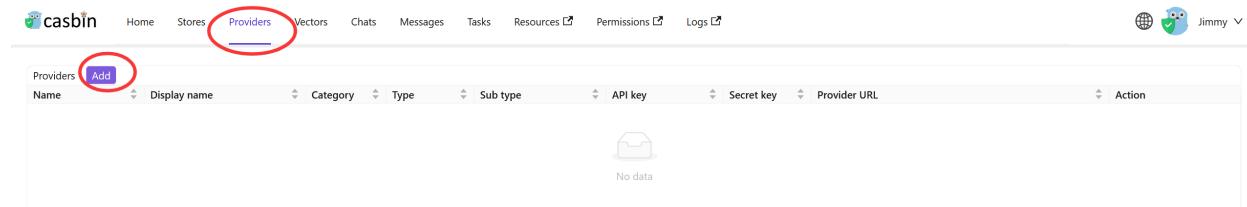


The screenshot shows the casibase home page with the 'Providers' tab selected. The table lists various embedding providers with columns for Name, Display name, Category, Type, Sub type, API key, Secret key, and Provider URL. The first few rows include 'provider\_blockchain\_chainmaker', 'provider\_model\_alibabacloud\_deepseek\_r1', 'provider\_cloud\_alibabacloud', 'dall-e-3', and 'provider\_model\_azure\_gpt4\_1'. The 'Add' button is visible at the top left of the table.

| 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 |          | AKIDOb2HjvqUrnxNltkKdfQvAWcS1JK4XidG | ***        | <a href="https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic">https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic</a>                 |
| provider_model_alibabacloud_deepseek_r1 |     |                      | Provider Model AlibabaCloud DeepSeek-R1 | Model        | Alibaba Cloud                     | deepseek-r1      |          |                                      | ***        | <a href="https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2">https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2</a>                 |
| provider_cloud_alibabacloud             |     |                      | Provider Cloud AlibabaCloud             | Public Cloud | Aliyun                            | text-davinci-003 |          | LTAI5THkUsepAioN6xxi2LMg             | ***        | <a href="https://ecs.console.aliyun.com/server/i-2zed8gb9o0wwmc2ku5/detail?regionId=cn-hangzhou">https://ecs.console.aliyun.com/server/i-2zed8gb9o0wwmc2ku5/detail?regionId=cn-hangzhou</a> |
| dall-e-3                                |     |                      | dall-e-3                                | Model        | OpenAI                            | dall-e-3         |          |                                      | ***        | <a href="https://platform.openai.com/account/api-keys">https://platform.openai.com/account/api-keys</a>   |
| provider_model_azure_gpt4_1             |     |                      | Provider Model Azure GPT-4              | Model        | Azure                             | gpt-4o           |          | deployment-gpt-4o                    | ***        | <a href="https://openaicasdoorsweden.openai.azure.com/">https://openaicasdoorsweden.openai.azure.com/</a>   |

## Step 2.1: Add an Embedding Provider

Click the **Add** button to add an embedding provider.



The screenshot shows the casibase home page with the 'Providers' tab selected. The 'Add' button is highlighted with a red circle. The table below is empty, showing a 'No data' message with a folder icon.

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

## Step 2.2: Fill in Embedding Provider Details

Fill in the embedding provider details and click the **Save & Exit** button.

[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](#)

提示

Same as the [Model Provider](#) section, Casibase supports many embedding providers, including:

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

Return providers list page:

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

Now, you can use the embedding provider to convert text to vectors.

After adding an embedding provider, you can use it to retrieve similar documents in Casibase. For more information, please refer to the [Core Concepts](#) section of our previous documentation.

In the next chapter, we will learn how to integrate storage providers, model providers, and embedding providers with Casibase.

# Add a Store

We have added a storage provider, a model provider, and an embedding provider. Now we need to configure a store to use these providers.



This guide assumes that you have already deployed a Casibase knowledge base system. If you haven't done, please refer to the [Deploy Casdoor and Casibase tutorial](#).

Besides, this guide assumes that you have already added a storage provider, a model provider, and an embedding provider. If you have not, please follow the [Add a Storage Provider](#), [Add a AI Model Provider](#), and [Add an Embedding Provider](#) guides.

## Step 1: Add a New Store

Stores are used to integrate storage, model, and embedding providers into Casibase. You can add them by following these steps:

Click the [Stores](#) button on the home page and then click the [Add](#) button to add a store.



Home Chat Stores Providers Vectors Chats Message

| Stores   | Add          |                  |
|----------|--------------|------------------|
| Name     | Display name | Storage provider |
| my_store | My_Store     | provider_storage |

## Step 2: Fill in Store Details

Select the storage provider, model provider, and embedding provider you added before.

Fill in the store details and click the `Save & Exit` button.

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:

```

    └─ 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)
  
```

Click the **Save & Exit** button and return to the stores list page:

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 | <a href="#">View</a> <a href="#">Refresh Vectors</a> <a href="#">Edit</a> <a href="#">Delete</a> |        |

< 1 >

Now, you can use the store to store knowledge base data, convert text to vectors, and chat with the chatbot.

In the next section, we will learn how to chat with the chatbot in Casibase.

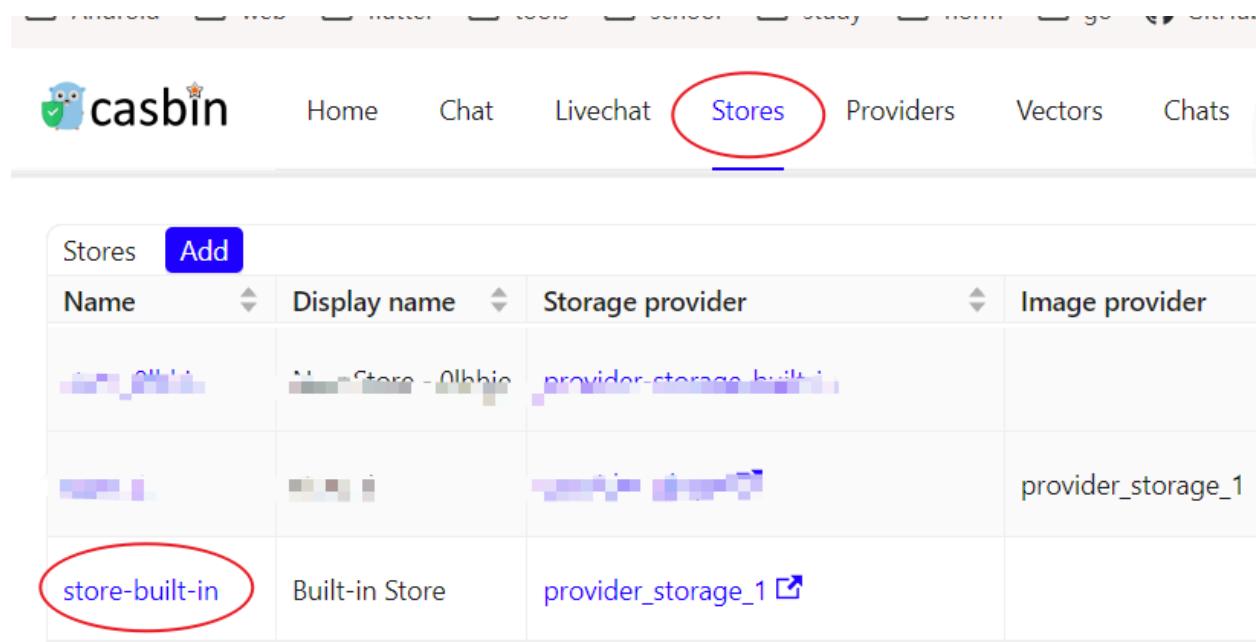
## Support Multi-store

The multi-store mode provides users with different models, suggestions, and more within each distinct store.

### Step 1: Enable Multi-store

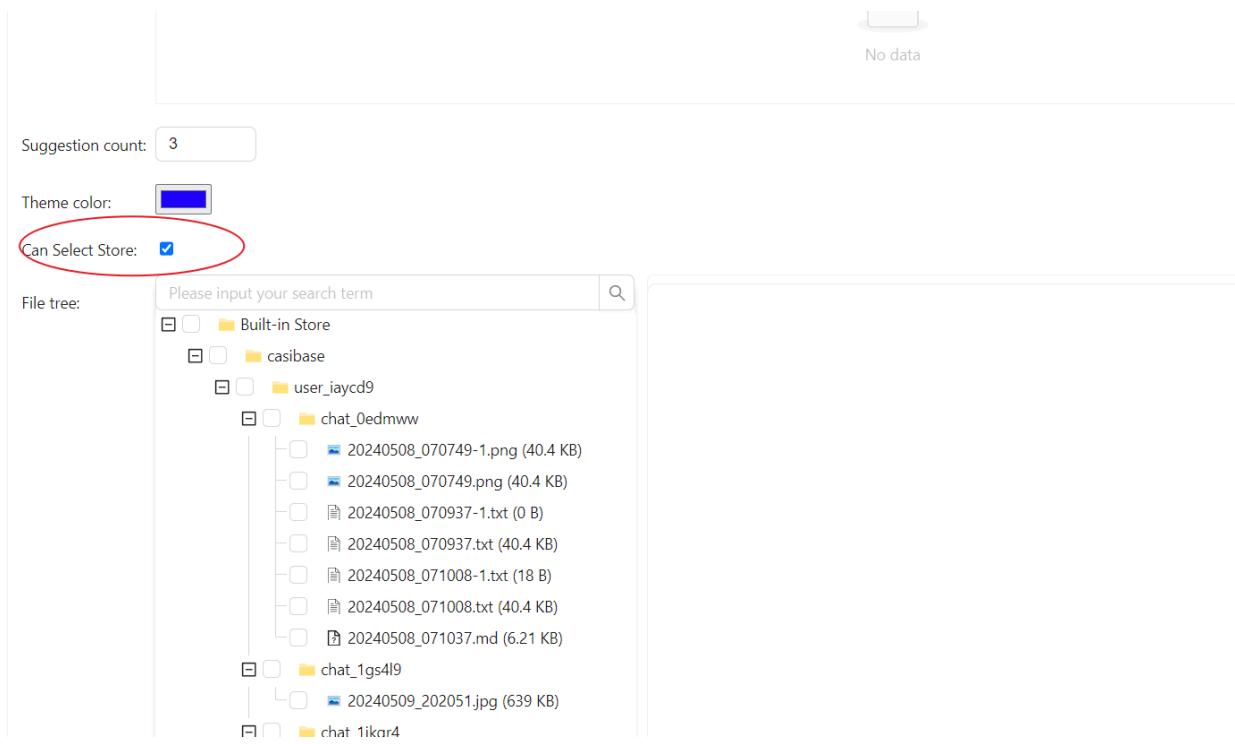
First, you should enable multi-store mode in the built-in store.

Click the `Stores` button on the home page and then click the `store-built-in` button to enter the store-built-in store.



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

Scroll down and find the `Can Select Store` field, tick it.



## Step 2: Add Usable Stores

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.

## Step 3: Select For Conversation

Casibase provides a very convenient method for selecting a store.



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.

Just hover your mouse over "New Chat" and then you can select the Store you wish to use from the list that appears below.

If you click the "New Chat" button, the system will assign you a default Store.

# Chats with AI

This document is a step-by-step tutorial designed for beginners. It will guide you through the process of implementing AI chat functionality in your Casibase knowledge base system.

## Introduction

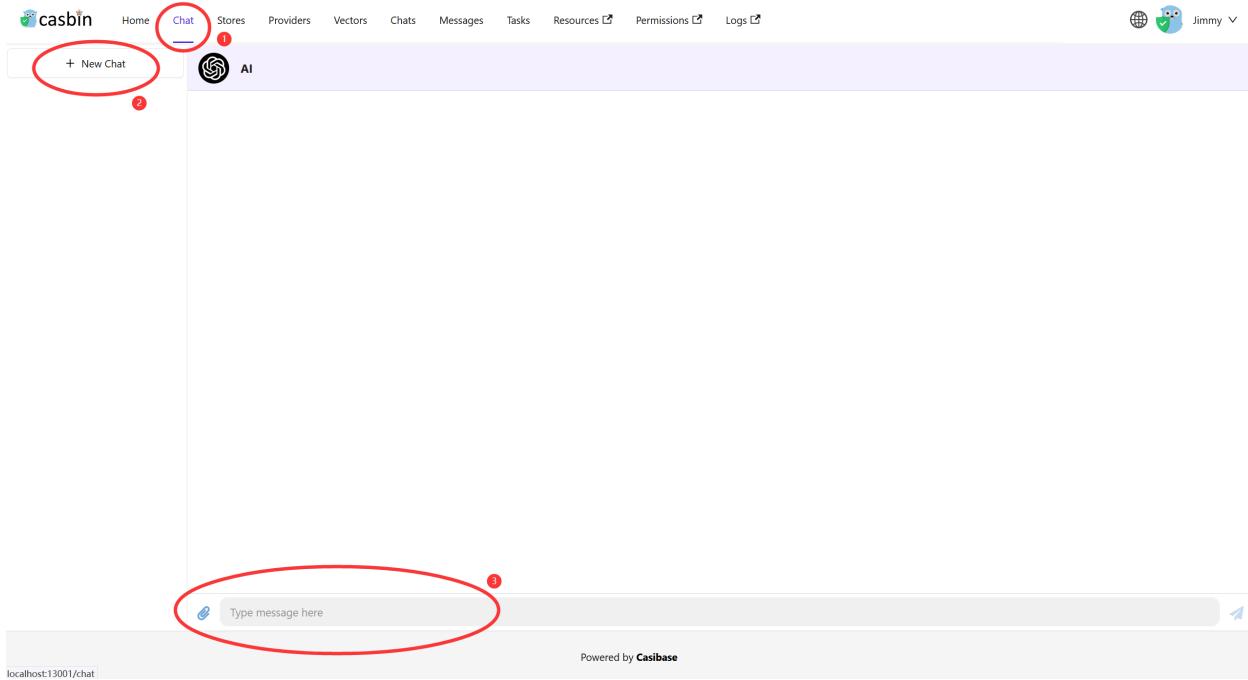
In previous sections, we have deployed Casdoor and Casibase, integrated a storage provider, a model provider, and a embedding provider with Casibase, and added a store to use these providers.

Refer to the [Add a Store](#) section of our previous documentation for more information about stores.

Now, let's implement AI chat functionality in Casibase.

### Step 1: Add a New Chat

Click the `Chats` button on the home page and then click the `New Chat` button to add a chat.



## Step 2: Send a Message

Write a message and click the **Send** button to send it.



## Step 3: Knowledge Base Chat

Additionally, you can chat with the chatbot in the knowledge base.

There are some requirements for the knowledge base chat:

- The knowledge base must have a store.
- The store must have a model provider.
- The store must have an embedding provider.

- The store must have a storage provider.
- The storage provider must have a readable document (e.g. a markdown file, docx file and pdf file).

Once you have met these requirements, you can return to the **Stores** page and click the **Refresh Vectors** button to embedding the knowledge base data.

| 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 | <a href="#">View</a> <a href="#">Refresh Vectors</a> <a href="#">Edit</a> <a href="#">Delete</a> |

The button will be disabled when the embedding is in progress.

After the embedding is complete, you can click the **Vectors** button in the navigation bar to view the vectors.

**Result:**

| 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...] | <a href="#">Edit</a> <a href="#">Delete</a> |
| 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...] | <a href="#">Edit</a> <a href="#">Delete</a> |
| 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...] | <a href="#">Edit</a> <a href="#">Delete</a> |
| vector_3tet51 | Casdoor Knowledge Points             | my_store | alibaba_oss/document/casdoor-knowledge.pdf | Casdoor Knowledge Points Casdoor is... | [-0.007692282,0.024387684,0.0001651...] | <a href="#">Edit</a> <a href="#">Delete</a> |

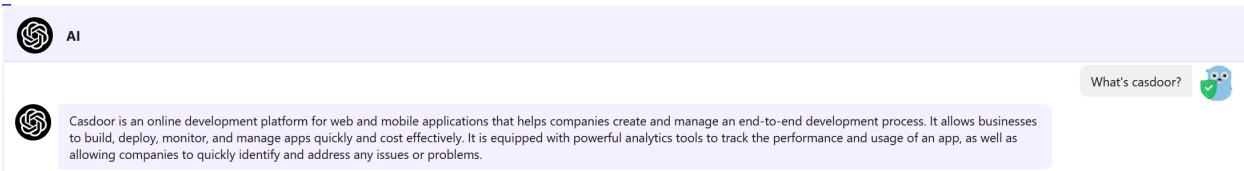
Let's chat with the chatbot in the knowledge base.

AI

What's casdoor?

Answer: Casdoor is an OAuth2 and OIDC based authentication portal designed to help developers easily add user authentication and authorization features to their applications.

Compare the results with non-knowledge base chat:



The screenshot shows a top navigation bar with 'AI' and a 'What's casdoor?' button. Below is a purple banner with the Casdoor logo and text: '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.' A green checkmark icon is visible in the top right corner.

### ⚠️ 警告

The embedding rate is related to two factors:

- The documents in the knowledge base:
  - Number of documents: The more documents, the longer the embedding time.
  - Size of documents: The larger the document size, the longer the embedding time.
- The embedding provider:
  - API rate limit: The more API rate limit, the faster the embedding speed.
  - API concurrency: The more API concurrency, the faster the embedding speed.

For example, if you use the [OpenAI API](#) as the embedding provider, the embedding rate is related to the [OpenAI API](#) rate limit and concurrency.

## Conclusion

In this guide, we have learned how to implement AI chat functionality in Casibase.

Now, you can chat with the chatbot in Casibase. Enjoy it!

More information about Casibase can be found in the [Core Concepts](#) section of our documentation.



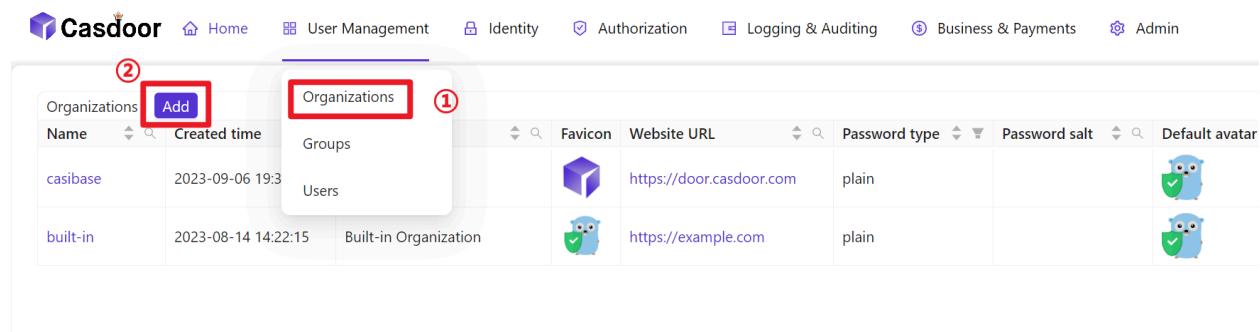
# Casdoor-SSO

Casibase uses Casdoor as its identity and single-sign-on (SSO) provider. Make sure to deploy it in advance.

Please refer to [Casdoor Server Installation](#) to install and configure Casdoor.

Follow these steps to setup Casdoor for casibase:

- Create an Organization



| Name     | Created time        | Groups                | Favicon | Website URL   | Password type | Password salt | Default avatar |
|----------|---------------------|-----------------------|---------|---|---------------|---------------|----------------|
| casibase | 2023-09-06 19:33    | Users                 |         | <a href="https://door.casdoor.com">https://door.casdoor.com</a> | plain         |               |                |
| built-in | 2023-08-14 14:22:15 | Built-in Organization |         | <a href="https://example.com">https://example.com</a>           | plain         |               |                |

- Configure information about the Organization

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

**Edit Organization**

|   |  |
|---|--|
| Name <small>②</small> :   | casibase   |
| Display name <small>①</small> :   | Casibase   |
| Favicon <small>②</small> :  | URL <small>②</small> : <a href="https://cdn.casbin.org/img/favicon.png">https://cdn.casbin.org/img/favicon.png</a> |
| Preview:  |  |
|  |  |
| Website URL <small>②</small> :  | <a href="https://door.casdoor.com">https://door.casdoor.com</a>  |
| Password type <small>②</small> :  | plain  |

**Save** **Save & Exit** ②

- Create a new Application

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

**Applications**

| 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** ②

**Applications** ①

| Logo   | Organization | Providers                                |
|--|--------------|--|
|  | casibase     | <a href="#">provider_captcha_default</a> |
|  | built-in     | <a href="#">provider_captcha_default</a> |

- Configuring Application Information (Remember Name, ClientID and ClientSecret)

Ed Application Save **Save & Exit** ④

Name ①: app-casibase ①

Display name ②: Casibase

Logo ③: URL ④: https://cdn.casbin.org/img/casdoor-logo\_1185x256.png

Preview: 

Home ⑤: ⑤

Description ⑥:

Organization ⑦: casibase ②

Tags ⑧:

Client ID ⑨: 548c8b9c7431d2621db1 ③

Client secret ⑩: 2bc7640d487fc4dea6f4b77f07f1bf4433e4ad40 ③

Cert ⑪: cert-built-in

- Add a member to the newly created organization

Organizations **Add**

| Name     | Created time        | Display name          | Favicon   | Website URL              | Password type | Password salt | Default avatar  | Soft deletion                        | Action   |
|----------|---------------------|-----------------------|---|--------------------------|---------------|---------------|---|--------------------------------------|--|
| casibase | 2023-09-06 19:34:53 | Casibase              |  | https://door.casdoor.com | plain         |               |  | <input checked="" type="radio"/> OFF | <b>Groups</b> <b>Users</b> <b>Edit</b> <b>Delete</b> |
| built-in | 2023-08-14 14:22:15 | Built-in Organization |  | https://example.com      | plain         |               |  | <input checked="" type="radio"/> OFF | <b>Groups</b> <b>Users</b> <b>Edit</b> <b>Delete</b> |

2 in total < [ 1 ] > 10 / pag

Users **Add** **Upload (xlsx)**

| Organization | Application  | Name        | Created time        | Display name      | Avatar  | Email              | Phone       | Affiliation  |
|--------------|--------------|-------------|---------------------|-------------------|---|--------------------|-------------|--------------|
| casibase     | app-casibase | user_e6y4db | 2023-09-06 19:37:26 | New User - e6y4db |  | e6y4db@example.com | 83359893102 | Example Inc. |

- Configure member information (remember its Name as well as Password)

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:



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Deployment



## Deploy Casdoor and Casibase

Discover how to deploy Casdoor and Casibase.

# Deploy Casdoor and Casibase

## Introduction



提示

### What is Casdoor?

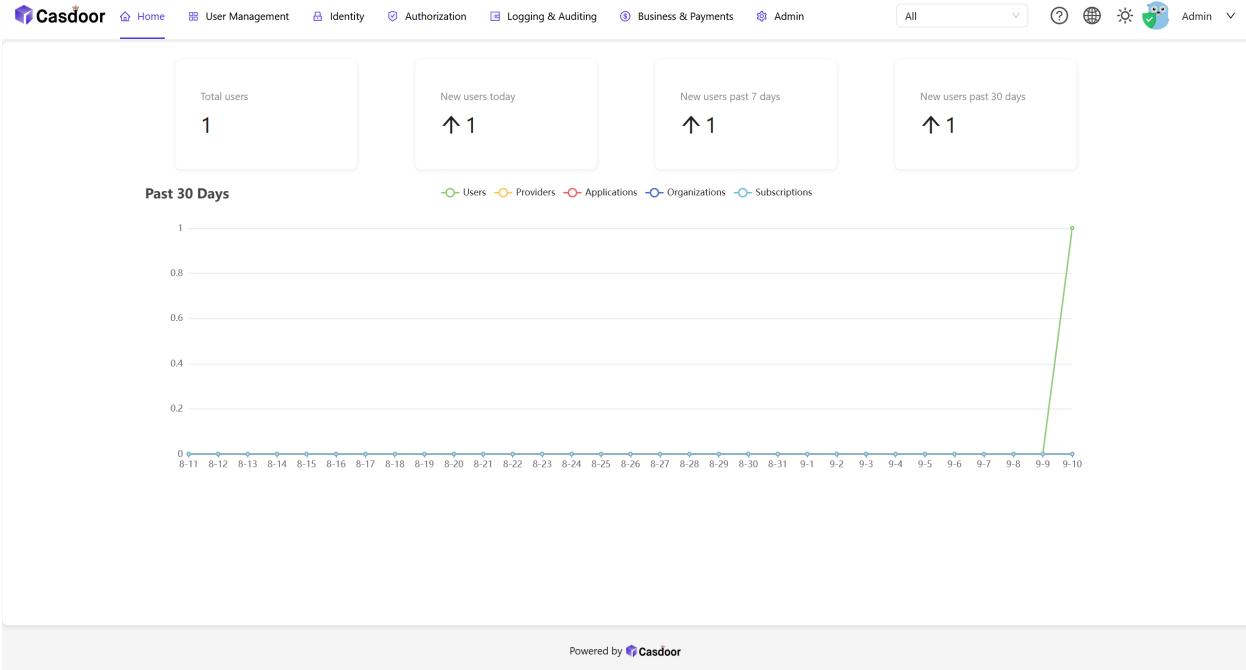
Casdoor is a powerful authentication system that provides a secure and reliable login experience. It's a prerequisite for Casibase, so be sure to deploy it first.

Refer to the [Casdoor](#) website for more information.

## Step 1: Deploy Casdoor

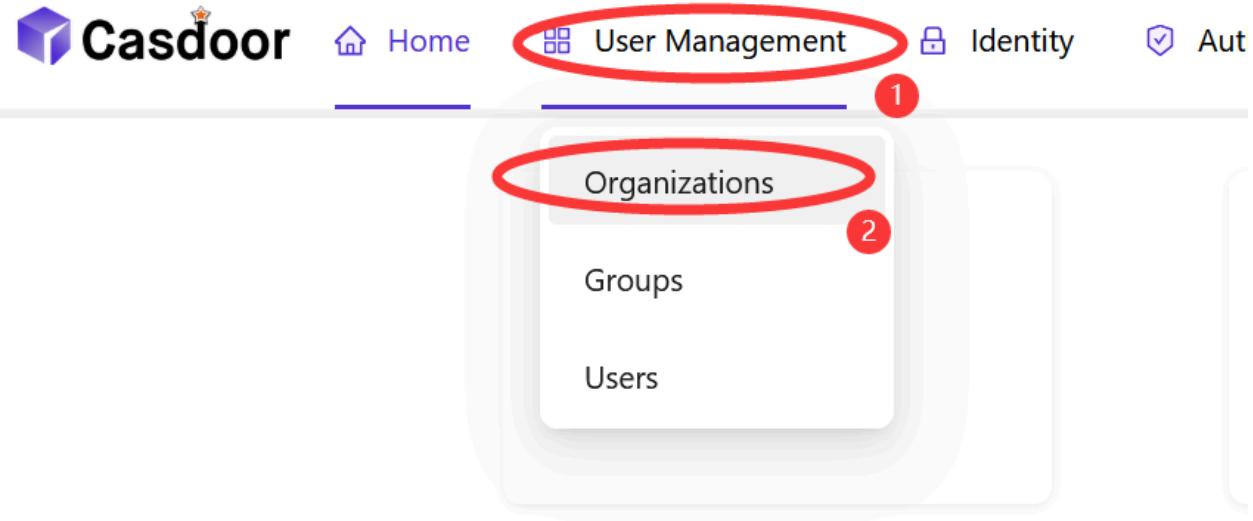
In [Casdoor Deployment Guide](#), you can find the detailed steps to deploy Casdoor.

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



## Step 2: Create an organization in Casdoor

In Casdoor, you can create an organization to manage your users and applications. You can create an organization by clicking the [User Management - Organizations](#) button on the home page.



## Past 30 Days

### Step 2.1: Add an organization

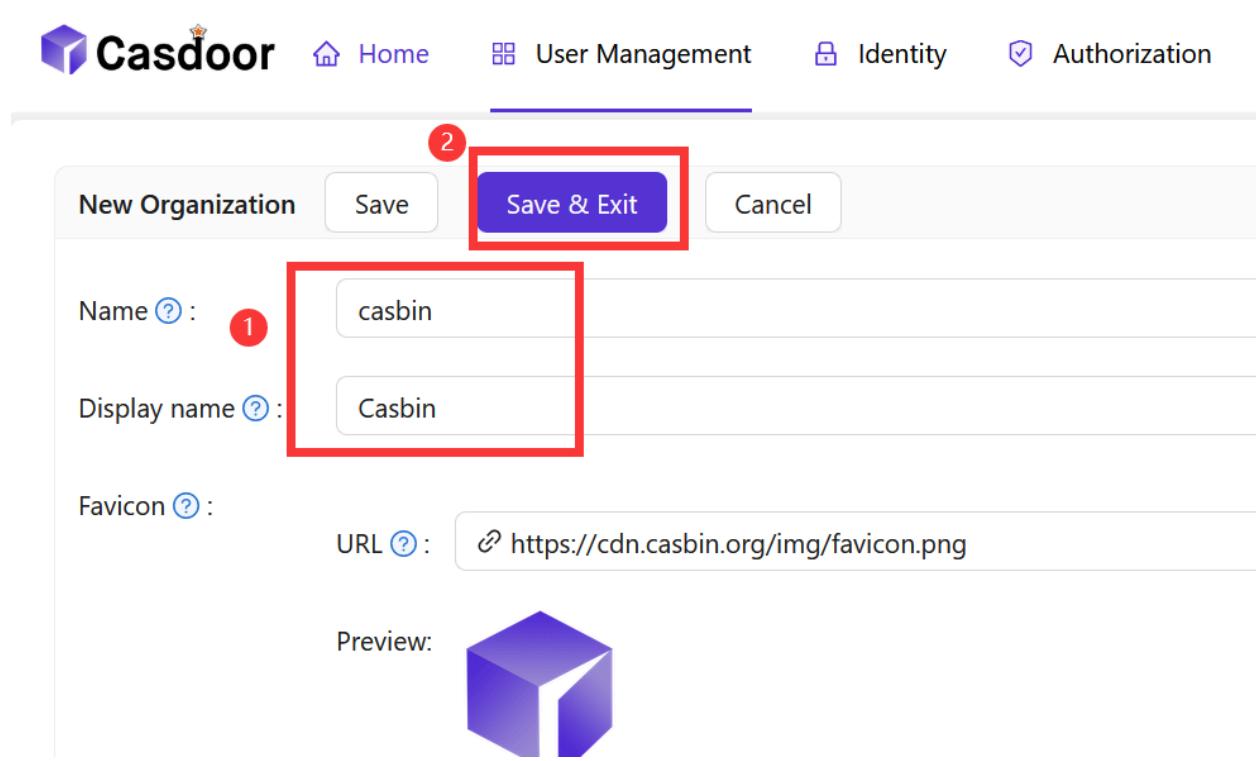
Click the **Add** button to add an organization.

The screenshot shows the 'Organizations' management page. At the top, there is a header with the Casdoor logo, Home, User Management, and Identity. Below the header, the title 'Organizations' is followed by a blue 'Add' button, which is circled in red. The main area is a table with columns: Name, Created time, and Display name. There is one entry in the table:

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

## Step 2.2: Fill in the organization information

Fill in the organization information and click the **Save & Exit** button.



New Organization

Name ? : casbin

Display name ? : Casbin

Favicon ? :

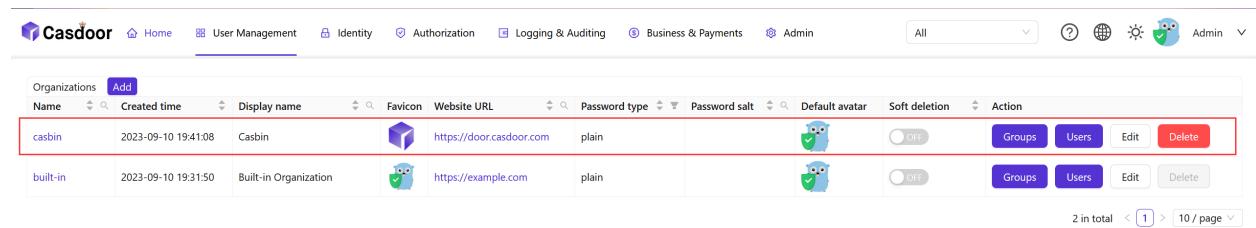
URL ? : <https://cdn.casbin.org/img/favicon.png>

Preview:



## Step 2.3: View the organization

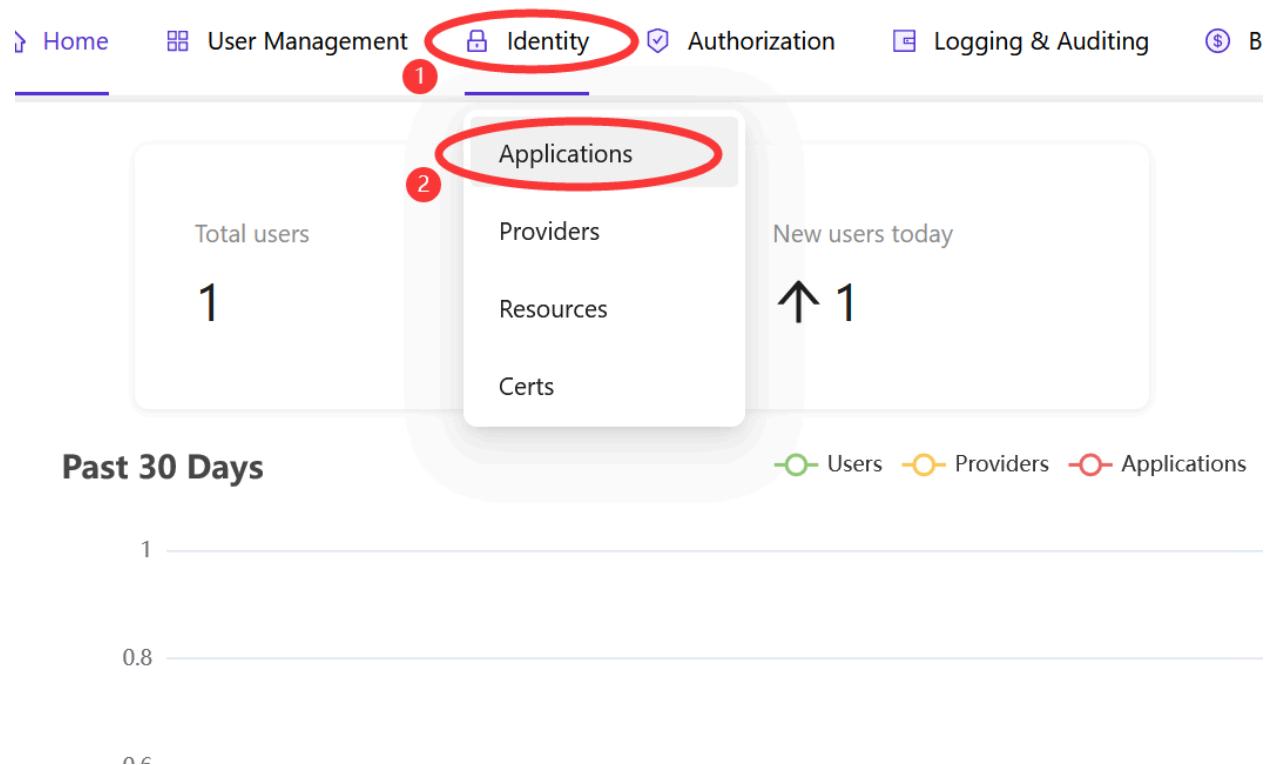
After adding the organization, you can view the organization information.



| 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                |   | <a href="https://door.casdoor.com">https://door.casdoor.com</a> | 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 |  | <a href="https://example.com">https://example.com</a>           | plain         |               |  | <input checked="" type="radio"/> OFF | <button>Groups</button> <button>Users</button> <button>Edit</button> <button>Delete</button> |

## Step 3: Create an application in Casdoor

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.



### Step 3.1: Add an application

Click the `Add` button to add an application.



### Step 3.2: Fill in the application information

Fill in the application information and click the **Save & Exit** button.

**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](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>

### Step 3.3: View the application

After adding the application, you can view the application information.

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

All

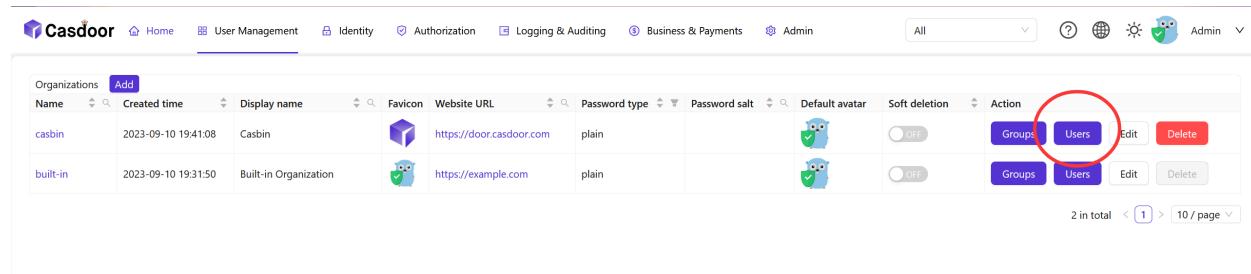
Applications Add

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

2 in total < 1 > 10 / page

## Step 4: Create a user in Casdoor for Casibase

In Casdoor, you can create a user to login Casibase. You can create a user by clicking the `User Management - Organizations - Users` button from the home page.



The screenshot shows the Casdoor User Management interface. In the top navigation bar, the 'User Management' tab is selected. Below it, the 'Organizations' section displays two entries: 'casbin' and 'built-in'. For each entry, there are columns for Name, Created time, Display name, Favicon, Website URL, Password type, Password salt, Default avatar, Soft deletion, and Action. The 'Action' column contains three buttons: 'Groups', 'Users' (which is highlighted with a red circle), and 'Edit'. At the bottom of the table, there is a message '2 in total' and a page navigation area with a page number '1'.

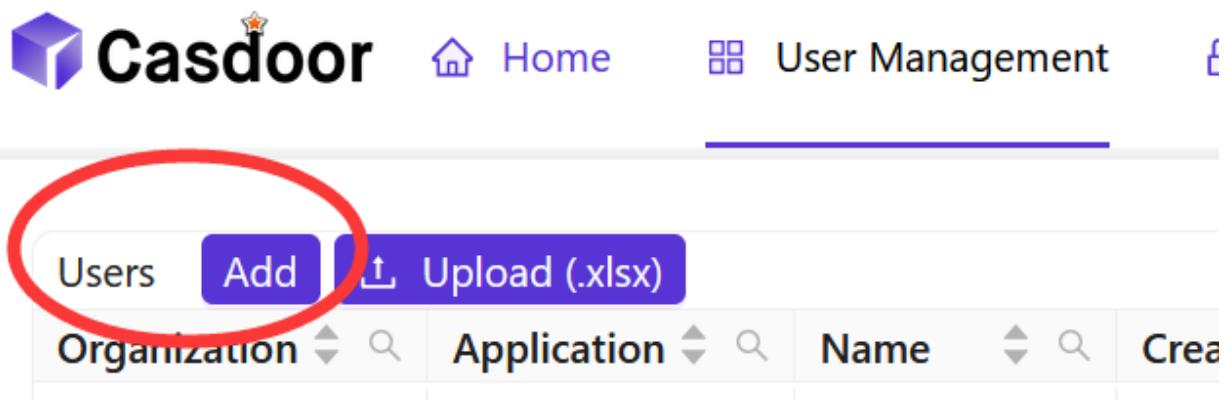


A user is a member of an organization who can login to applications in the organization.

Refer to the [Casdoor](#) website for more information.

### Step 4.1: Add a user

Click the `Add` button to add a user.



#### Step 4.2: Fill in the user information

Fill in the user information and click the **Save & Exit** button.

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

Organization [?](#): casbin 1

ID [?](#): d5bc730c-312c-406e-ae03-e6580d7590f4

Name [?](#): jimmy 2

Display name [?](#): Jimmy

Avatar [?](#): Preview:  [Upload a photo...](#)

User type [?](#): normal-user

Password [?](#): [Modify password...](#) 3

Email [?](#): t414w5@example.com

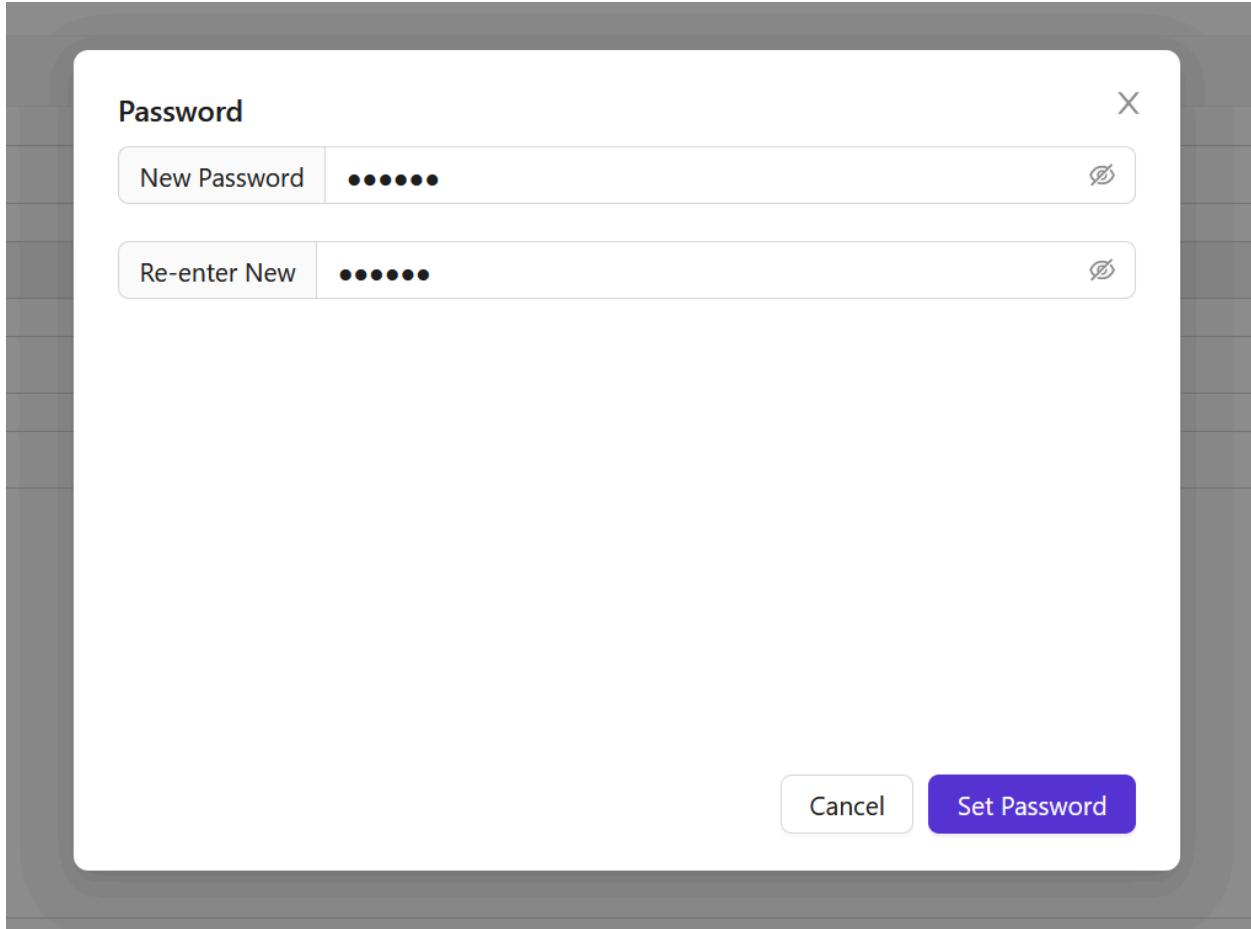
Phone [?](#): +1 71700415009

Country/Region [?](#): Please select country/region

Location [?](#):

- Password

You can set the user's password by clicking the [Modify password...](#) button.



- Admin

You can set the user's admin permission by clicking the `Is admin` button.

Permissions [?](#) :

Groups [?](#) :

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

Is admin [?](#) :



Is forbidden [?](#) :



Is deleted [?](#) :



Multi-factor authentication [?](#) :

Multi-factor methods

#### Step 4.3: View the user

After adding the user, you can view the user information.

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's a table with columns: Organization, Application, Name, Created time, Display name, Avatar, Email, Phone, Affiliation, Country/Region, Tag, Is ac, and Action. A single row is visible for a user named 'jimmy'. The 'Is ac' column has a dropdown menu with 'On' selected. The 'Action' column contains buttons for 'Edit' and 'Delete'. At the bottom of the table, it says '1 in total' and shows page navigation controls.

| 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. |                |     | On    | <button>Edit</button> <button>Delete</button> |

#### Step 5: Deploy Casibase

Like Casdoor, you can deploy Casibase by following the [Casibase Deployment Guide](#).

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



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

Jimmy ▾

Powered by **Casibase**



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Providers

# Providers



## Overview

Providers Overview



## Model Providers

Introduction



## Embedding Providers

Introduction



## Storage Providers

Introduction

# Overview

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. Model Providers

Model Providers is a component in Casibase for integrating and managing AI models. 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 supports a variety of popular AI models, including but not limited to:

## Model Provider Types

- Hugging Face: e.g. meta-llama/Llama-2-7b, THUDM/chatglm2-6b
- OpenAI: e.g. gpt-3.5-turbo, gpt-4
- Claude: e.g. claude-2, claude-instant-v1

- Ernie: e.g. ERNIE-Bot, ERNIE-Bot-turbo

## 2. Embedding Providers

### Data vectorisation

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.

### Knowledge Retrieval

By converting both the data in the knowledge base and the user's query into vectors, Embedding Providers enables the system to perform fast knowledge retrieval based on vector similarity. This greatly improves the efficiency and accuracy of knowledge base retrieval.

### Flexible model support

Embedding Providers support a variety of embedding models, users can choose the most suitable model according to their needs.

## 3. Storage Providers

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.

## **Local**

We support uploading files to the local system.

## **Cloud**

We support AWS S3, Azure Blob Storage, MinIO, Alibaba Cloud OSS, Tencent Cloud COS, and we are constantly adding more Cloud storage services.

# Model Providers

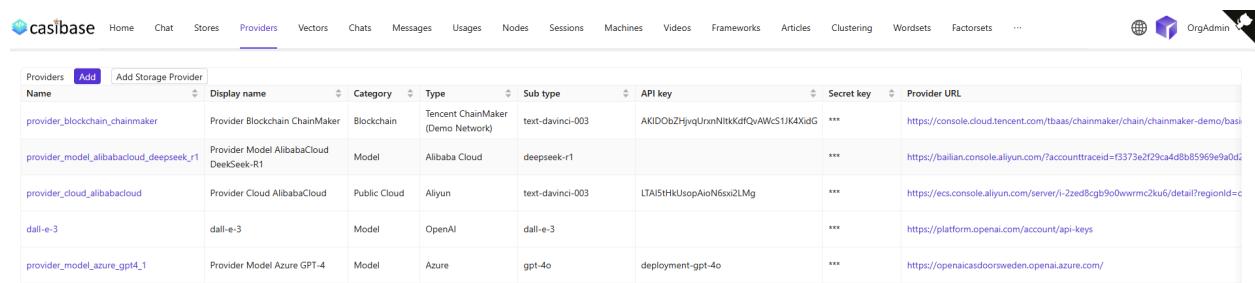
## Introduction

Adding a model provider to Casibase enables you to enhance its functionality by incorporating machine learning models and AI capabilities. Model providers allow you to analyze and process data within your knowledge base system, making it more intelligent and efficient.

## Add a Model Provider

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

Click the **Providers** button on the home page.



The screenshot shows the Casibase interface with the 'Providers' tab selected. The table lists five existing providers:

| 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 | ***        | <a href="https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic">https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic</a>                 |
| provider_model_alibabacloud_deeplearning_r1 | Provider Model AlibabaCloud DeeSeek-R1 | Model        | Alibaba Cloud                     | deeplearning-r1  |                                     | ***        | <a href="https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2">https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2</a>                 |
| provider_cloud_alibabacloud                 | Provider Cloud AlibabaCloud            | Public Cloud | Aliyun                            | text-davinci-003 | LTA15THkUsopAioN6xx2LMg             | ***        | <a href="https://ecs.console.aliyun.com/server/i-2zed8cq9o0wwmc2ku5/detail?regionId=cn-hangzhou">https://ecs.console.aliyun.com/server/i-2zed8cq9o0wwmc2ku5/detail?regionId=cn-hangzhou</a> |
| dall-e-3                                    | dall-e-3                               | Model        | OpenAI                            | dall-e-3         |                                     | ***        | <a href="https://platform.openai.com/account/api-keys">https://platform.openai.com/account/api-keys</a>   |
| provider_model_azure_gpt4_1                 | Provider Model Azure GPT-4             | Model        | Azure                             | gpt-4o           | deployment-gpt-4o                   | ***        | <a href="https://openai.azure.com/">https://openai.azure.com/</a>   |

Click the **Add** button to add a model provider.

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' and an 'Add' button, also highlighted with a red circle. The main content area has a table header with columns: Name, Display name, Category, Type, Sub type, API key, Secret key, Provider URL, and Action. The table body contains one row with a folder icon and the text 'No data'.

## Fill in Model Provider Details

Fill in the model provider details and click the **Save & Exit** button.

[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](#)

Casibase supports many model providers, including:

- [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
  - .....

### ⚠ 警告

- Category: The first-level category of the model provider. For example, `Model` and `Embedding`.
- Type: The second-level category of the model provider. For example, `OpenAI` and `Hugging Face`.
- SecretKey: The secret key of your OpenAI account.

### Example

## Add an OpenAI model provider

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

- Name: provider\_openai\_model
- Display name: OpenAI model
- Category: Model
- Type: OpenAI (highlighted by a red circle)
- Sub type: OpenAI (selected in a dropdown menu)
- Secret key: (empty)
- Provider URL: <https://platform.openai.com/account/api-keys>

A red circle highlights the 'Type' field and the 'OpenAI' option in the dropdown menu.

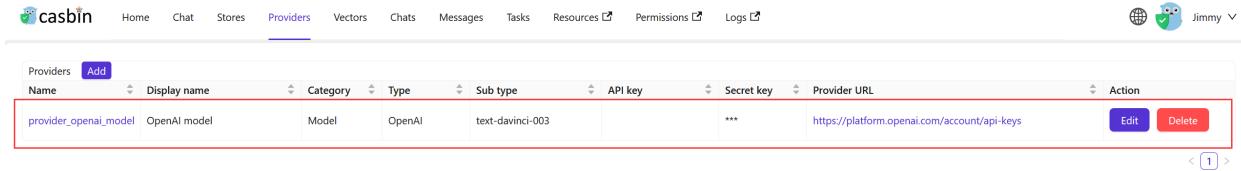
### ⚠️ 警告

Some models don't support streaming-output. Known models that support streaming-output include:

- gpt-3.5-turbo-0613

After adding a model provider, you can use it to analyze and process data in Casibase using chatbots, question answering, and other AI capabilities.

Return to the model provider list page:



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

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

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

Now that you've added a model provider, you can use it to analyze and process data in Casibase using chatbots, question answering, and other AI capabilities.

# Embedding Providers

## Introduction

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.

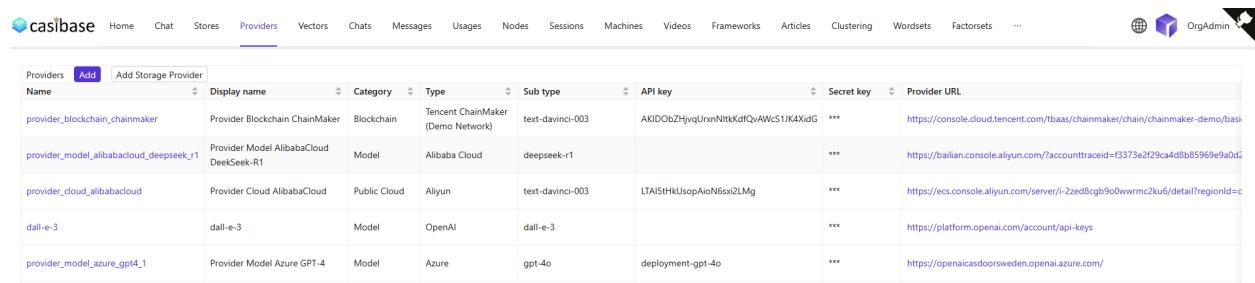
Refer to the [Core Concepts](#) section of our previous documentation for more information about embedding.

In Casibase, you can add an embedding provider by following these steps:

## Add a New Embedding Provider

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

Click the [Providers](#) button on the page.



The screenshot shows the Casibase interface with the 'Providers' tab selected. A table lists five existing providers:

| 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 | AKIDOb2HjqqlJrxnNlkKdfQvAWcS1k4XidG | ***        | <a href="https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic">https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic</a> |
| provider_model_alibabacloud_deepseek_r1 | Provider Model AlibabaCloud DeepSeek-R1 | Model        | Alibaba Cloud                     | deepseek-r1      |                                     | ***        | <a href="https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2">https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2</a> |
| provider_cloud_alibabacloud             | Provider Cloud AlibabaCloud             | Public Cloud | Aliyun                            | text-davinci-003 | LTAI5tHkUsopAioN6xi2LMg             | ***        | <a href="https://ecs.console.aliyun.com/server/i-2zed8gb9o0wwrmc2ku6/detail?regionId=c">https://ecs.console.aliyun.com/server/i-2zed8gb9o0wwrmc2ku6/detail?regionId=c</a>   |
| dall-e-3                                | dall-e-3                                | Model        | OpenAI                            | dall-e-3         |                                     | ***        | <a href="https://platform.openai.com/account/api-keys">https://platform.openai.com/account/api-keys</a>   |
| provider_model_azure_gpt4_1             | Provider Model Azure GPT-4              | Model        | Azure                             | gpt-4o           | deployment-gpt-4o                   | ***        | <a href="https://openicasdoorsweden.openai.azure.com/">https://openicasdoorsweden.openai.azure.com/</a>   |

## Add an Embedding Provider

Click the [Add](#) button to add an embedding provider.

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, the main content area has a header 'Providers' with a sub-header 'Add'. The table has columns: Name, Display name, Category, Type, Sub type, API key, Secret key, Provider URL, and Action. There is one row with a folder icon and the text 'No data'. The 'Add' button is highlighted with a red circle.

## Fill in Embedding Provider Details

Fill in the embedding provider details and click the **Save & Exit** button.

[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 supports many embedding providers, including:

- [OpenAI](#)

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

Return providers list page:

The screenshot shows the Casibin provider list page. The top navigation bar includes Home, Chat, Stores, Providers (which is selected and highlighted in blue), Vectors, Chats, Messages, Tasks, Resources, Permissions, and Logs. On the right, there is a user profile icon for 'Jimmy'.

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

Now, you can use the embedding provider to convert text to vectors.

After adding an embedding provider, you can use it to retrieve similar documents in Casibase. For more information, please refer to the [Core Concepts](#) section of our previous documentation.

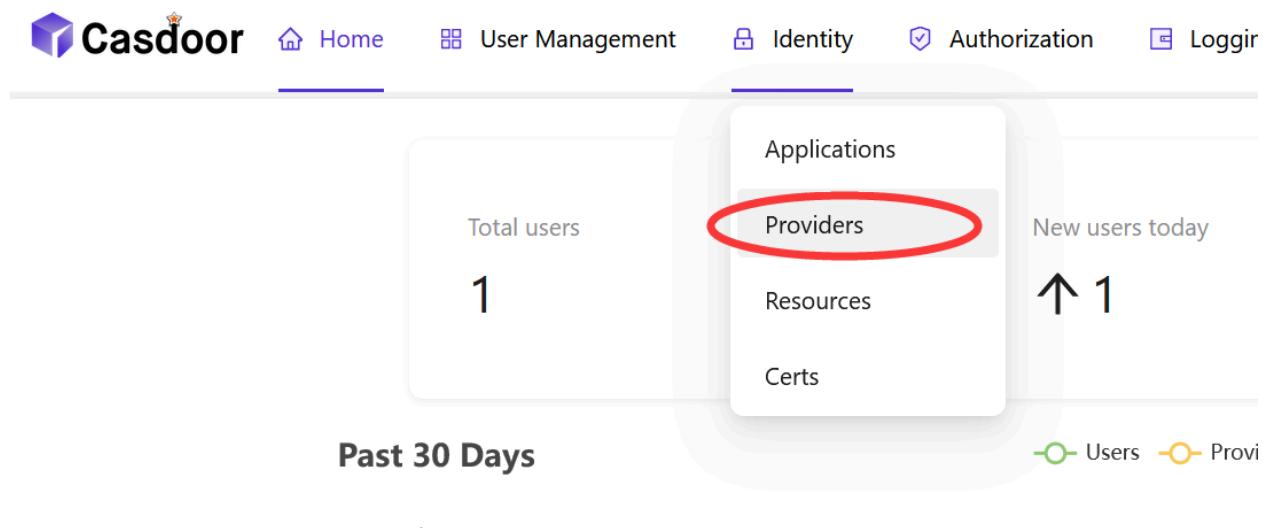
# Storage Providers

## Introduction

Adding a storage provider to Casibase enables you to efficiently manage and store data, making it an essential component for your knowledge base system.

## Add a New Storage Provider

Storage providers are used to store data. They can be added in Casdoor by clicking the [Identity - Providers](#) button on the home page.



Click the [Add](#) button to add a storage provider.



Providers

Add

Name

Organization

Created time

Di

provider\_captcha\_default

admin (Shared)

2023-09-10 19:31:50

Ca

Fill in the storage provider information

Fill in the storage provider information and click the **Save & Exit** button.

New Provider

Save

Save &amp; Exit

Cancel

Name ②:

provider\_storage\_1

Display name ②:

Provider\_storage\_1

Organization ②:

admin (Shared)

Category ②:

Storage

Type ②:

aws AWS S3

Client ID ②:

Alibaba Cloud OSS

aws AWS S3

Client secret ②:

Azure Blob

Endpoint ②:

Google Cloud Storage

Local File System

Endpoint (Intranet) ②:

MinIO

Bucket ②:

Qiniu Cloud Kodo

 提示

Casdoor supports many storage providers, including:

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

- [Qiniu Cloud Kodo](#)
- [Alibaba Cloud OSS ...](#)

## Example

Add an Aliyun OSS storage provider



- 警告**
- Client ID: The AccessKey ID of your Aliyun OSS account.
  - Client Secret: The AccessKey Secret of your Aliyun OSS account.

\*\*\*\*\* is the placeholder for your Aliyun OSS account information.

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](#)

## View the storage provider

After adding the storage provider, you can view the storage provider information.

| 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... | <a href="#">Edit</a> <a href="#">Delete</a> |



&gt;

Stores

# Stores



## Overview

Stores Overview



## Store Configuration

After adding storage providers, model providers and embedding providers, we can configure the stores

# Overview

## 1. Overview of the Stores Function

In Casibase, the Stores function is one of its core modules, which allows users to integrate storage, modelling, and embedding service providers for knowledge base data storage, text vector conversion, and interaction with chatbots. With the Stores feature, users can build an efficient, flexible and powerful AI knowledge management system.

## 2. Advantages of Stores

### 2.1 Multi-model integration

Casibase's Stores feature supports multiple mainstream AI language models, including OpenAI (e.g., GPT-3.5, GPT-4), Azure OpenAI, HuggingFace, Google Gemini, and so on. 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 Multiple storage and embedding options

Users are free to choose storage and embedding service providers to meet different data storage and processing needs. This flexibility enables users to configure the most appropriate storage and embedding solution based on their technology stack and business requirements.

## 2.3 Multi-Store Mode

Casibase supports a multi-Store model that allows users to use different models, storage and embedding services in different Stores to provide customised services for different scenarios and users. This feature enables users to flexibly configure and switch Stores according to different business requirements.

## 3. Summary

Casibase's Stores feature provides users with a powerful knowledge management tool that enables them to flexibly build and manage knowledge bases by integrating multiple AI models, stores and embedded services. 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.

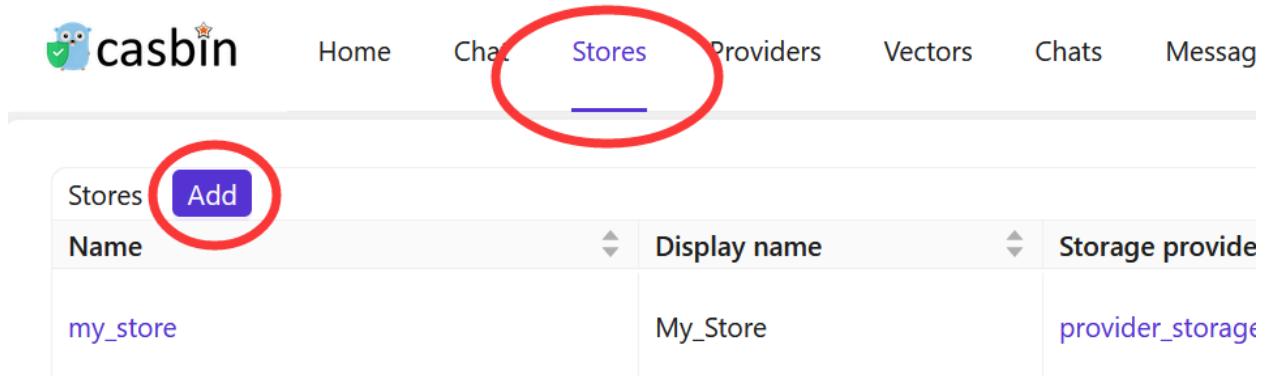
# Store Configuration

After adding storage providers, model providers and embedding providers, we can configure the stores

## 1. Add a New Store

Stores are used to integrate storage, model, and embedding providers into Casibase. You can add them by following these steps:

Click the **Stores** button on the home page and then click the **Add** button to add a store.



| Name     | Display name | Storage provider |
|----------|--------------|------------------|
| my_store | My_Store     | provider_storage |

## Fill in Store Details

Fill in the store details and click the **Save & Exit** button.

Screenshot of the casbin web interface showing the 'Edit Store' form for a new store named 'store\_v6c22m'. The 'Storage provider' field is empty, indicated by a red 'X' icon and the message 'storage provider is empty'. A 'Go to Store' button is visible below the message.

Name: store\_v6c22m

Display name: New Store - v6c22m

Storage provider:

Model provider:

Embedding provider:

File tree:

X

storage provider is empty

Go to Store

Select the storage provider, model provider, and embedding provider you added before.

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:

```

    └── 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)
    
```

Click the **Save & Exit** button and return to the stores list page:

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 |                    | <a href="#">View</a> <a href="#">Refresh Vectors</a> <a href="#">Edit</a> <a href="#">Delete</a> |

Now, you can use the store to store knowledge base data, convert text to vectors, and chat with the chatbot.

In the next section, we will learn how to chat with the chatbot in Casibase.

## 2. Support Multi-store

The multi-store mode provides users with different models, suggestions, and more within each distinct store.

### Enable Multi-store

First, you should enable multi-store mode in the built-in store.

Click the `Stores` button on the home page and then click the `store-built-in` button to enter the store-built-in store.

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

Scroll down and find the `Can Select Store` field, tick it.

Suggestion count:

Theme color: 

Can Select Store:

File tree:

Please input your search term

 Built-in Store

 casibase

 user\_iaycd9

 chat\_0edmw

 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

## Add Usable Stores

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.

## Select For Conversation

Casibase provides a very convenient method for selecting a store.



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.

Just hover your mouse over "New Chat" and then you can select the Store you wish to use from the list that appears below.

If you click the "New Chat" button, the system will assign you a default Store.

# Vectors

## Overview

Vectors Overview

## Vectors Generation

The generation of vectors needs to be used in conjunction with stores, which means that you need to configure stores before you can understand vectors.

# Overview

In Casibase, vectors are one of its core strengths. 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.

For information on the definition of vectors, see the [core-concepts](#) section in our previous documentation.

## Application of vector technology in Casibase

### Knowledge Embedding

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.

### Similarity Search

Casibase converts the knowledge into vectors and stores them in a vector database. This vector representation supports a powerful similarity search function, which allows users to quickly find relevant information based on context or content.

# Vectors Generation

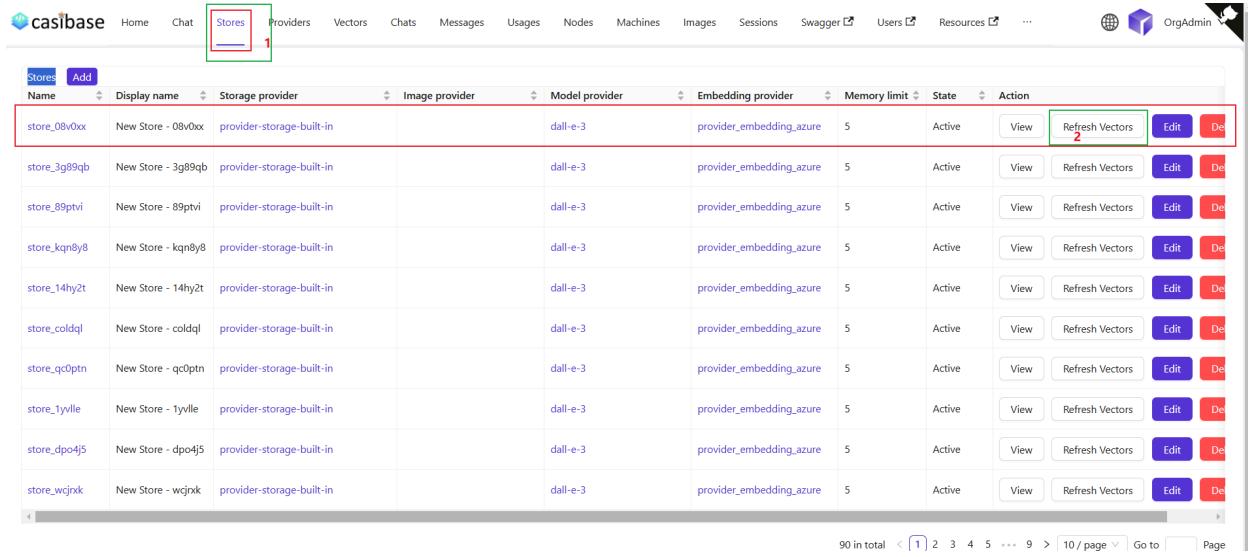
The generation of vectors needs to be used in conjunction with stores, which means that you need to configure stores before you can understand vectors.

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. Refresh Vectors

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.

By clicking on the Refresh Vectors button for a particular stores, it will generate the corresponding vectors for all the files in the file tree for that stores by embedding them. The following figure shows the page and the operation.

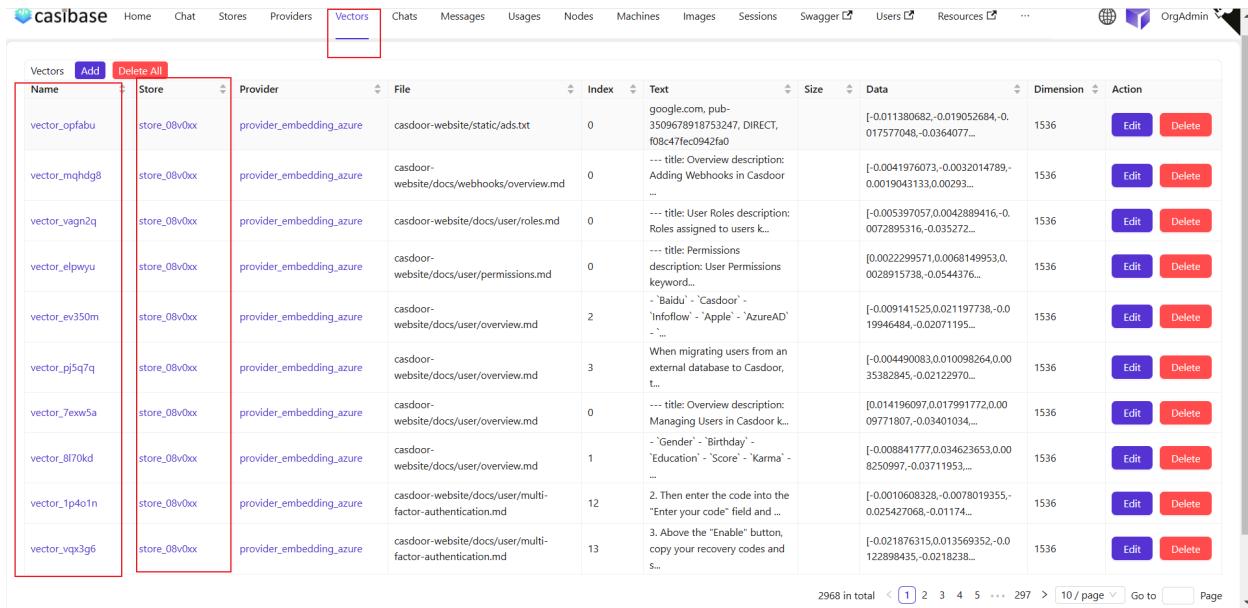


| Name          | Display name        | Storage provider          | Image provider | Model provider | Embedding provider       | Memory limit | State  | Action   |
|---------------|---------------------|---------------------------|----------------|----------------|--------------------------|--------------|--------|--|
| store_08v0xx  | New Store - 08v0xx  | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |
| store_3g89qb  | New Store - 3g89qb  | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |
| store_89ptvi  | New Store - 89ptvi  | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |
| store_kqn8y8  | New Store - kqn8y8  | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |
| store_14hy2t  | New Store - 14hy2t  | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |
| store_coldql  | New Store - coldql  | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |
| store_qc0ptn  | New Store - qc0ptn  | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |
| store_1yville | New Store - 1yville | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |
| store_dpo4j5  | New Store - dpo4j5  | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |
| store_wcjnxk  | New Store - wcjnxk  | provider-storage-built-in |                | dall-e-3       | provider_embedding_azure | 5            | Active | <button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</button> |

90 in total < [1] 2 3 4 5 ... 9 > [10 / page] Go to Page

## 2. View vectors

After that, we can view the specific vectors generated by that storages in the vector menu.



| Name          | Store        | Provider                 | File   | Index | Text  | Size  | Data | Dimension                                     | Action |
|---------------|--------------|--------------------------|--|-------|---|---|------|---|--------|
| vector_opfabu | store_08v0xx | provider_embedding_azure | casdoor-website/static/ads.txt                           | 0     | google.com, pub-3509678918753247, DIRECT, f08c47fec0942fa0      | [ -0.011380682, -0.019052684, -0.017577048, -0.0364072... ]   | 1536 | <button>Edit</button> <button>Delete</button> |        |
| vector_mqhdg8 | store_08v0xx | provider_embedding_azure | casdoor-website/docs/webhooks/overview.md                | 0     | --- title: Overview description: Adding Webhooks in Casdoor     | [ -0.0041976073, -0.0032014789, -0.0019043133.0, 0.00293... ] | 1536 | <button>Edit</button> <button>Delete</button> |        |
| vector_vagn2q | store_08v0xx | provider_embedding_azure | casdoor-website/docs/user/roles.md                       | 0     | --- title: User Roles description: Roles assigned to users k... | [ -0.005397057, 0.0042889416, -0.0072895316, -0.035272... ]   | 1536 | <button>Edit</button> <button>Delete</button> |        |
| vector_elpwyu | store_08v0xx | provider_embedding_azure | casdoor-website/docs/user/permissions.md                 | 0     | --- title: Permissions description: User Permissions keyword... | [ 0.0022299571.0, 0.0068149953, 0.028915738, -0.0544376... ]  | 1536 | <button>Edit</button> <button>Delete</button> |        |
| vector_ev350m | store_08v0xx | provider_embedding_azure | casdoor-website/docs/user/overview.md                    | 2     | - 'Baidu' - 'Casdoor' - 'Infoflow' - 'Apple' - 'AzureAD'        | [ -0.009141525, 0.021197738, -0.009946484, -0.02071195... ]   | 1536 | <button>Edit</button> <button>Delete</button> |        |
| vector_pj5q7q | store_08v0xx | provider_embedding_azure | casdoor-website/docs/user/overview.md                    | 3     | When migrating users from an external database to Casdoor, t... | [ -0.004490083, 0.010098264, 0.035382845, -0.0212970... ]     | 1536 | <button>Edit</button> <button>Delete</button> |        |
| vector_7exw5a | store_08v0xx | provider_embedding_azure | casdoor-website/docs/user/overview.md                    | 0     | --- title: Overview description: Managing Users in Casdoor k... | [ 0.014196097, 0.017991772, 0.09771807, -0.03401034... ]      | 1536 | <button>Edit</button> <button>Delete</button> |        |
| vector_8l70kd | store_08v0xx | provider_embedding_azure | casdoor-website/docs/user/overview.md                    | 1     | - 'Gender' - 'Birthday' - 'Education' - 'Score' - 'Karma' -     | [ -0.008841777, 0.034623653, 0.0250997, -0.03711953... ]      | 1536 | <button>Edit</button> <button>Delete</button> |        |
| vector_tp40in | store_08v0xx | provider_embedding_azure | casdoor-website/docs/user/multi-factor-authentication.md | 12    | 2. Then enter the code into the "Enter your code" field and ... | [ -0.0010608328, -0.0078019355, 0.025427068, -0.01174... ]    | 1536 | <button>Edit</button> <button>Delete</button> |        |
| vector_vp3g6  | store_08v0xx | provider_embedding_azure | casdoor-website/docs/user/multi-factor-authentication.md | 13    | 3. Above the "Enable" button, copy your recovery codes and s... | [ -0.021876315, 0.013569352, -0.122898435, -0.0218238... ]    | 1536 | <button>Edit</button> <button>Delete</button> |        |

2968 in total < [1] 2 3 4 5 ... 297 > [10 / page] Go to Page

We can see that the files in the stores from the previous step of refreshing vectors have been converted into vectors to display here.

The screenshot shows the 'Edit Vector' page in the casibase web application. The top navigation bar includes links for Home, Chat, Stores, Providers, Vectors (which is the active tab), Chats, Messages, Usages, Nodes, Machines, Images, Sessions, Swagger, Users, Resources, Permissions, Logs, and OrgAdmin. The main content area has a form with the following fields:

- Name: vector\_opfabu
- Display name: google.com, pub-350967919175241
- Store: store\_0bv0xx
- Provider: provider\_embedding\_azure
- File: casdoor-website/static/ads.txt
- Text: google.com, pub-350967919175241, DIRECT, f08c4f1ec5942fa
- Size: 1536
- Dimension: 1536
- Data: A large text area containing a long string of numerical values representing the vector's components.

The edit page of my vectors shows specific information such as the name of the store, the name of the embedding model, the name of the file in which the embedding was performed, the file size, the dimension, the vectors data, and so on.



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Chats

# Chats



## Overview

Chats Overview

# Overview

In this section, we introduce the most central part of Casibase: chat and its management.

## 1. Chat

Once we have configured the store, we can have a dialogue with the AI. This is shown in the image below:

The screenshot shows the Casibase AI Chat interface. The top navigation bar includes Home, Chat (which is selected), Stores, Providers, Vectors, Chats, Messages, Usages, Nodes, Machines, Images, Sessions, and Swagger. On the right, there are icons for OrgAdmin and a user profile. The main area shows a sidebar with categories like Default Category, FrameworkTest, and a New Chat section. A message from the AI is displayed: "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." Below this, 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?". At the bottom, there is a message input field with a placeholder "Type message here" and a send button.

## 2. Chats (Chat management)

We can manage our chat sessions from the Chats menu.

The screenshot shows the casibase Chats page. At the top, there are navigation links: Home, Chat, Stores, Providers, Vectors, Chats (which is highlighted), Messages, Usages, Nodes, Machines, Images, Sessions, Swagger, and ...

Below the navigation, there is a search bar with dropdowns for Users (10), Chats (10), and a message count of 25. It also shows Tokens: 15175, Price: \$0.0421881, and a column for 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<br>中国 山东 济南<br>Edge 133.0.0<br>Windows 10            | 1     | 1006        | \$0.002705  |          | <button>Edit</button><br><button>Delete</button> |
| chat_v67r4z | 2025-03-05 13:36:48 | u-649ef853 | 101.129.8.189<br>中国 台湾 N/A<br>Chrome 133.0.0<br>Mac OS X<br>10.15.7 | 1     | 1004        | \$0.00269   |          | <button>Edit</button><br><button>Delete</button> |
| chat_252ftr | 2025-03-05 13:36:18 | admin      | :1  | 12    | 7107        | \$0.0203981 |          | <button>Edit</button><br><button>Delete</button> |

A red box highlights the last row of the table. To the right of the table, a modal window displays the messages from this specific chat:

```

2025/
2025/3/4 00:55:33
Hello! How can I assist you today?
   
2025/
who are yc

```

This page allows the user to view the information of the created chats, and the user can also click on Edit to view or edit them. They display the following information:

- Name**: The name of the created chat.
- Updated time**: The time when the chat is Updated.
- User**: The user to whom the chat belongs.
- Client IP**: Client IP of the chat.
- Count**: Number of inputs and outputs for this chat.
- Token count**: The total number of tokens used for this chat.
- Price**: Total price spent on this chat.
- Messages**: Showing the content of the chat's message.
- Store**: Display the Store to which the chat belongs.
- Category**: Display the Category to which the chat belongs.



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Messages

# Messages



## Overview

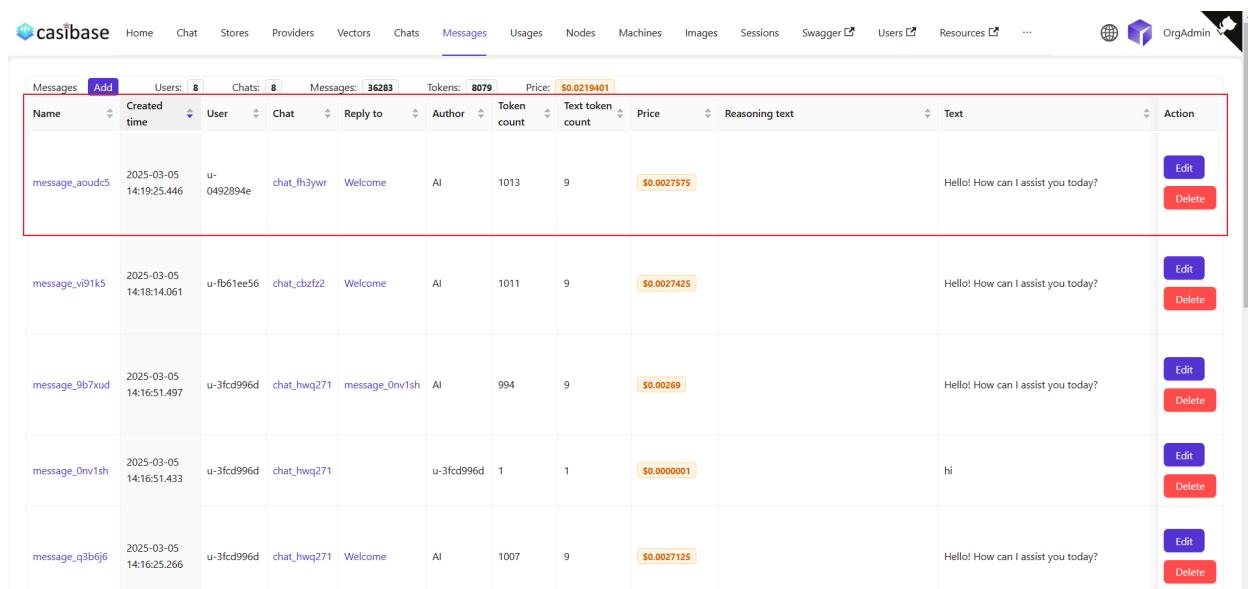
Messages Overview

# Overview

In this section, we introduce the functionality of message in Casibase.

## Messages

The messages module manages all the messages in our sessions, it shows the creation time of each message, the chat it belongs to, the parent message, the number of tokens, the price, the text message of the reply, the vectors, the suggestions and so on.



The screenshot shows the Casibase interface with the 'Messages' tab selected. At the top, there are filters for 'Users: 0', 'Chats: 0', 'Messages: 36233', 'Tokens: 8079', and 'Price: \$0.0219401'. Below the filters is a table with the following columns: Name, Created time, User, Chat, Reply to, Author, Token count, Text token count, Price, Reasoning text, and Text. Each row represents a message, with the first row highlighted by a red border. Each message row also contains 'Edit' and 'Delete' buttons in the 'Action' column.

| 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_fh3ywr | 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_cbzfz2 | 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-3fcdd996d | 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-3fcdd996d | chat_hwq271 |                | u-3fcdd996d | 1           | 1                | \$0.0000001 |                | hi                                 | <button>Edit</button> <button>Delete</button> |
| message_q3b6j6 | 2025-03-05 14:16:25.266 | u-3fcdd996d | chat_hwq271 | Welcome        | AI          | 1007        | 9                | \$0.0027125 |                | Hello! How can I assist you today? | <button>Edit</button> <button>Delete</button> |



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Nodes

# Nodes



## Overview

Casibase nodes Overview



## RDP

Casibase nodes RDP



## VNC

Casibase nodes VNC

# Overview

Casibase helps you to manage nodes, and connect to your nodes remotely, including remote desktop via RDP, VNC, SSH, and Telnet.

Protocol:

- SSH
- RDP
- VNC
- Telnet

Every node has the following basic properties:

- Organization: The organization that the node belongs to.
- Name: The unique node name.
- Description: The Description of the node.
- IP: Domain name or IP address.
- Protocol: The port number of the Protocol.
- Port: The port number of the node.
- Username: The username to connect to the node, such as root, administrator, sa, etc.
- Password: The password to connect to the node.
- OS: The operating system of the node, including Windows and Linux, used to classify the node.
- Tag: The tag of the node, used to classify the node.

In this chapter, you will learn how to start connecting to your nodes.

Let's explore together!

# RDP

Casibase Support Connect to your nodes via RDP protocol:

## Rdp connection

### 1. Start Guacamole Server

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

### 2. Add a new node, set protocol to rdp

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

The screenshot shows the 'Edit Node' form for a node named 'host-base'. The form includes fields for Organization (casbin), Name (host-base), Description (21212), Protocol (RDP), IP (47.93.49.234), Port (3389), Username (administrator), Password (\*\*\*), OS (Windows), Tag, Language (en), Auto query (disabled), and Is permanent (disabled). A services table is also present.

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

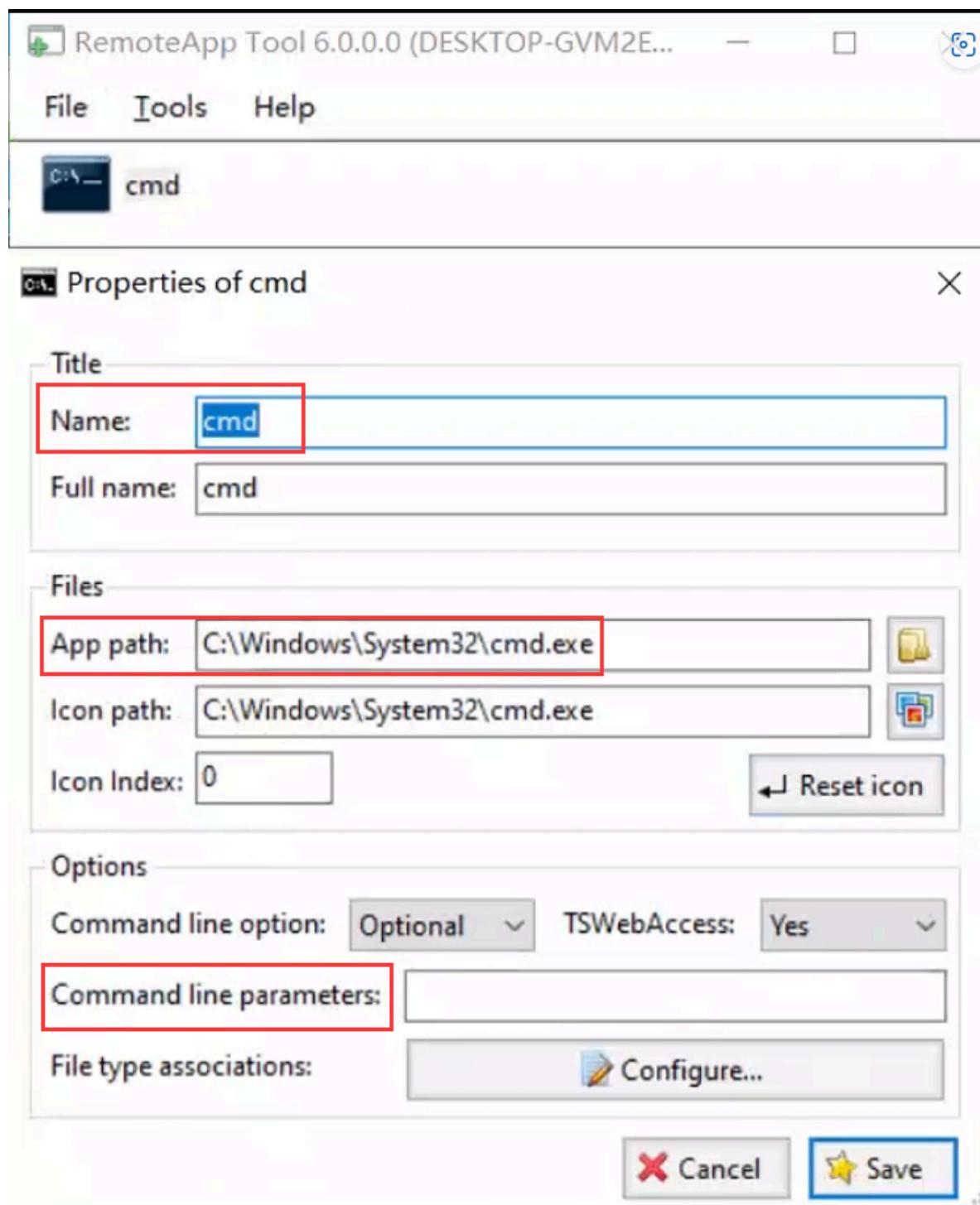
3. Connect to your node by clicking the **connect** button

## Remote App

We support remote app on Windows nodes, you can add remote apps on **node Edit** page, and then you can connect to your remote app by clicking the **connect** button.

1. Configure your remote app on the server end.

You can use [RemoteApp Tool](#) to register apps.



2. Configure the remote app information in the node edit page according to the server-end configuration. 'remoteAppName', 'remoteAppDir', and 'remoteAppArgs' are required.



refer to [Configuring Guacamole — Apache Guacamole Manual v1.5.3](#)

3. Connect to your remote app.

# VNC

## VNC Connect

VNC connection is similar to RDP connections.

### 1. Start Guacamole Server

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

### 2. Add a new node, set protocol to 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"/> | <a href="#">Connect</a> | <a href="#">Edit</a> | <a href="#">Delete</a> |
| casbin       | node_apacdj | 2025-03-09 23:32:12       |             | VNC      | 127.0.0.1 | 5900 | Administrator | en       | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <a href="#">Connect</a> | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 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"/> | <a href="#">Connect</a> | <a href="#">Edit</a> | <a href="#">Delete</a> |
| casbin       | node_zbjav  | 2025-02-21 17:18:08       |             | RDP      | 127.0.0.1 | 3389 | Administrator | en       | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <a href="#">Connect</a> | <a href="#">Edit</a> | <a href="#">Delete</a> |
| casbin       | node_cy3c9s | 2025-02-14 11:59:43       |             | RDP      | 127.0.0.1 | 3389 | Administrator | en       | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <a href="#">Connect</a> | <a href="#">Edit</a> | <a href="#">Delete</a> |

### 3. Connect to your node by clicking the [connect](#) button.