



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

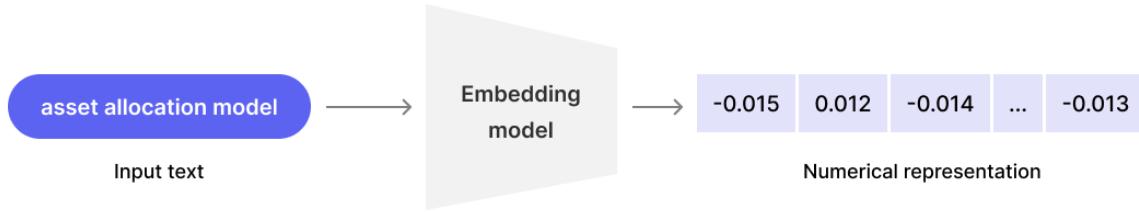
1. With a separate front-end and back-end architecture developed in Golang, Casibase supports high concurrency, provides web-based management UI and supports multiple languages (Chinese, English).
2. Casibase supports third-party application login, such as GitHub, Google, QQ, WeChat, etc., and supports 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.



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>)

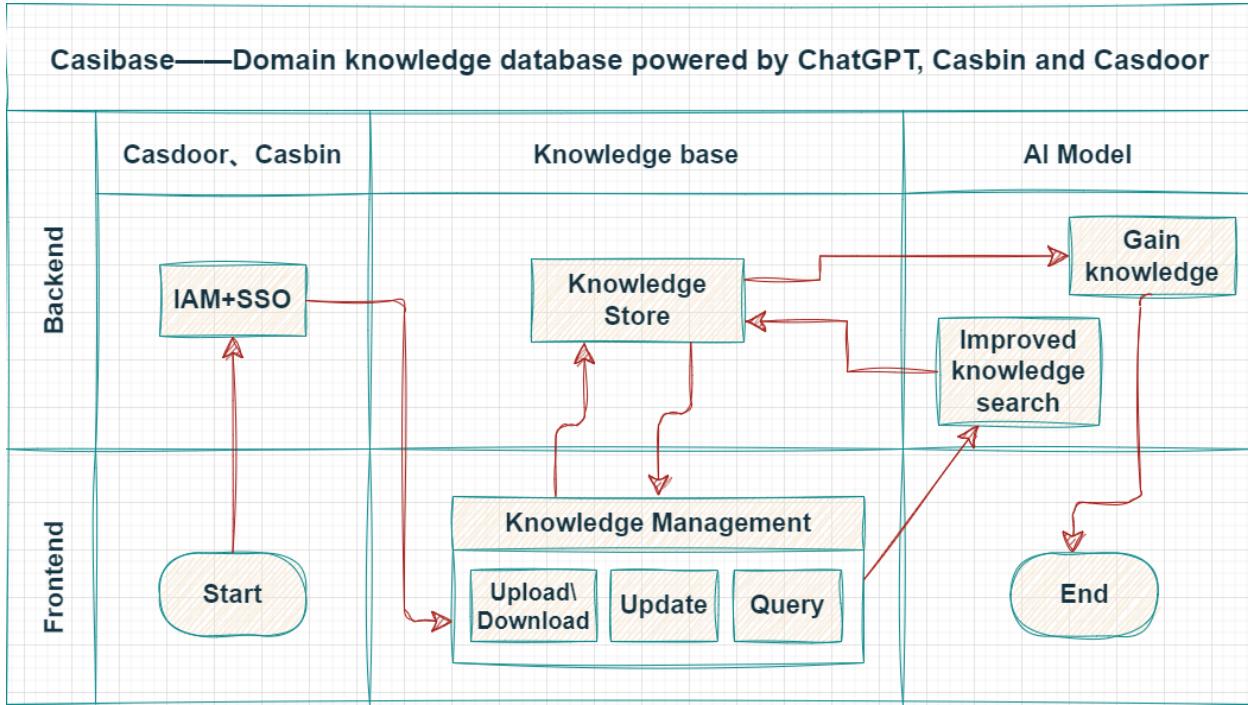
Global admin login:

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

Architecture

Casibase contains 2 parts:

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



Supported Models

Language Model

Model	Sub Type	Link
OpenAI	gpt-4-32k-0613 ◇ gpt-4-32k-0314 ◇ gpt-4-32k ◇ gpt-4-0613 ◇ gpt-4-0314 ◇ gpt-4 ◇ gpt-3.5-turbo-0613 ◇ gpt-3.5-turbo-0301 ◇ gpt-3.5-turbo-16k ◇ gpt-3.5-turbo-16k-0613 ◇ gpt-3.5-turbo ◇ text-davinci-003 ◇ text-davinci-002 ◇ text-curie-001 ◇ text-babbage-001 ◇ text-ada-001 ◇ text-davinci-001 ◇ davinci-instruct-beta ◇ davinci-curie-instruct-beta ◇ curie ◇ ada ◇ babbage	OpenAI

Model	Sub Type	Link
Hugging Face	meta-llama/Llama-2-7b, tiiuae/falcon-180B, bigscience/bloom, gpt2, baichuan-inc/Baichuan2-13B-Chat, THUDM/chatglm2-6b	Hugging Face
Claude	claude-2, claude-v1, claude-v1-100k, claude-instant-v1, claude-instant-v1-100k, claude-v1.3, claude-v1.3-100k, claude-v1.2, claude-v1.0, claude-instant-v1.1, claude-instant-v1.1-100k, claude-instant-v1.0	Claude
OpenRouter	google/palm-2-codechat-bison, google/palm-2-chat-bison, openai/gpt-3.5-turbo, openai/gpt-3.5-turbo-16k, openai/gpt-4, openai/gpt-4-32k, anthropic/claude-2, anthropic/claude-instant-v1, meta-llama/llama-2-13b-chat, meta-llama/llama-2-70b-chat, palm-2-codechat-bison, palm-2-chat-bison, gpt-3.5-turbo, gpt-3.5-turbo-16k, gpt-4, gpt-4-32k, claude-2, claude-instant-v1, llama-2-13b-chat, llama-2-70b-chat	OpenRouter
Ernie	ERNIE-Bot, ERNIE-Bot-turbo, BLOOMZ-7B, Llama-2	Ernie
iFlytek	spark-v1.5, spark-v2.0	iFlytek
ChatGLM	chatglm2-6b	ChatGLM

Model	Sub Type	Link
MiniMax	abab5-chat	MiniMax
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:

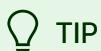
`Provider`, `Storage`, `Chat` and `Vector`.

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"`
}
```



TIP

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

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.

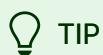
The Chat class definition is shown as follows:

```
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.



TIP

- 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

❗ INFO

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](#)

⚠ CAUTION

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	https://github.com/casibase/casibase/tree/master/web
Backend	RESTful API backend for Casibase	Golang + Beego + XORM	https://github.com/casibase/casibase

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 =
```

ⓘ INFO

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 =
```

(!) INFO

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.

```
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>
```

Run

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

CAUTION

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
```

Nginx



TIP

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";  
}
```

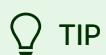
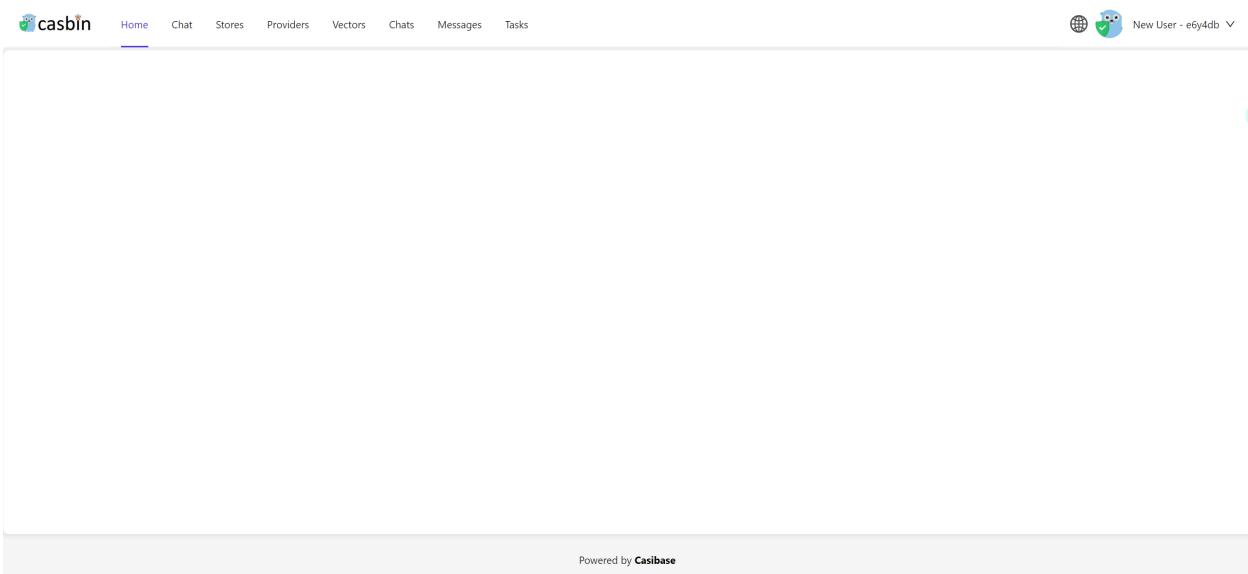
Because Casibase uses websocket to communicate with guacd.

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:



TIP

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
casibase-all-in-one	Both Casibase and a MySQL database are included in the image	This image already includes a toy database and is only for testing purposes
casibase	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



TIP

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 Text-to-Speech Model Provider

Learn how to add a text-to-speech provider to enhance Casibase functionality.

Add a Speech-to-Text Provider

Learn how to add a speech-to-text provider to enhance Casibase functionality.

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.

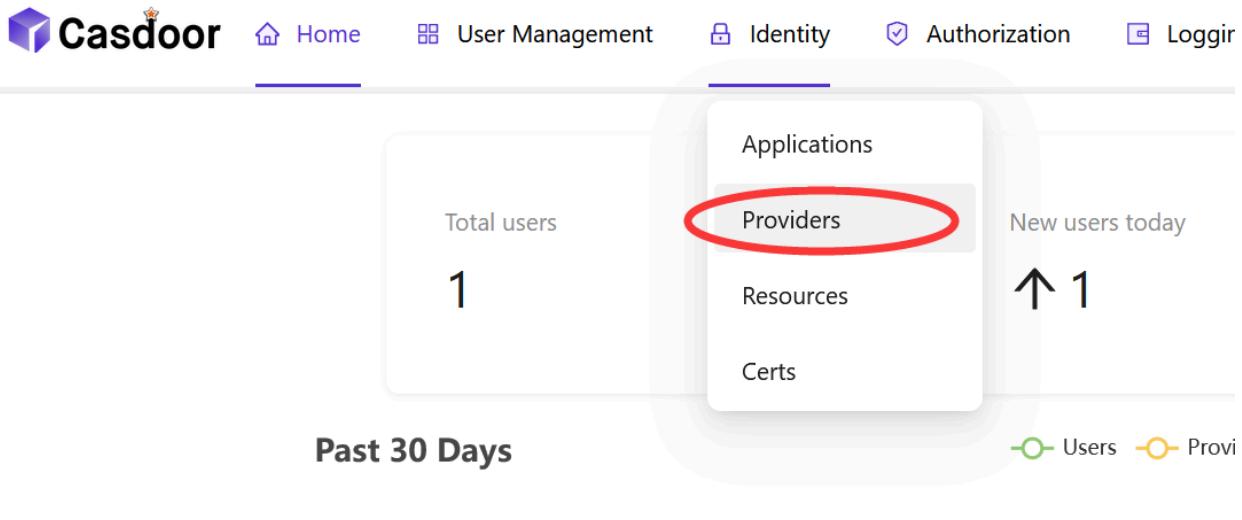
If you're new to integrating storage providers, don't worry. We've broken down the process into simple steps that anyone can follow.

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. At the top, there are navigation links: Home, User Management, Identity, and Authorization. The "Identity" link is underlined, indicating the current active page. Below the navigation, there's a table with the following data:

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

The "Add" button in the top-left corner of the table header is highlighted with a red circle.

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 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

Endpoint (Intranet) ②:

Local File System

:

MinIO

Bucket ②:

Qiniu Cloud Kodo

 TIP

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

CAUTION

- 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

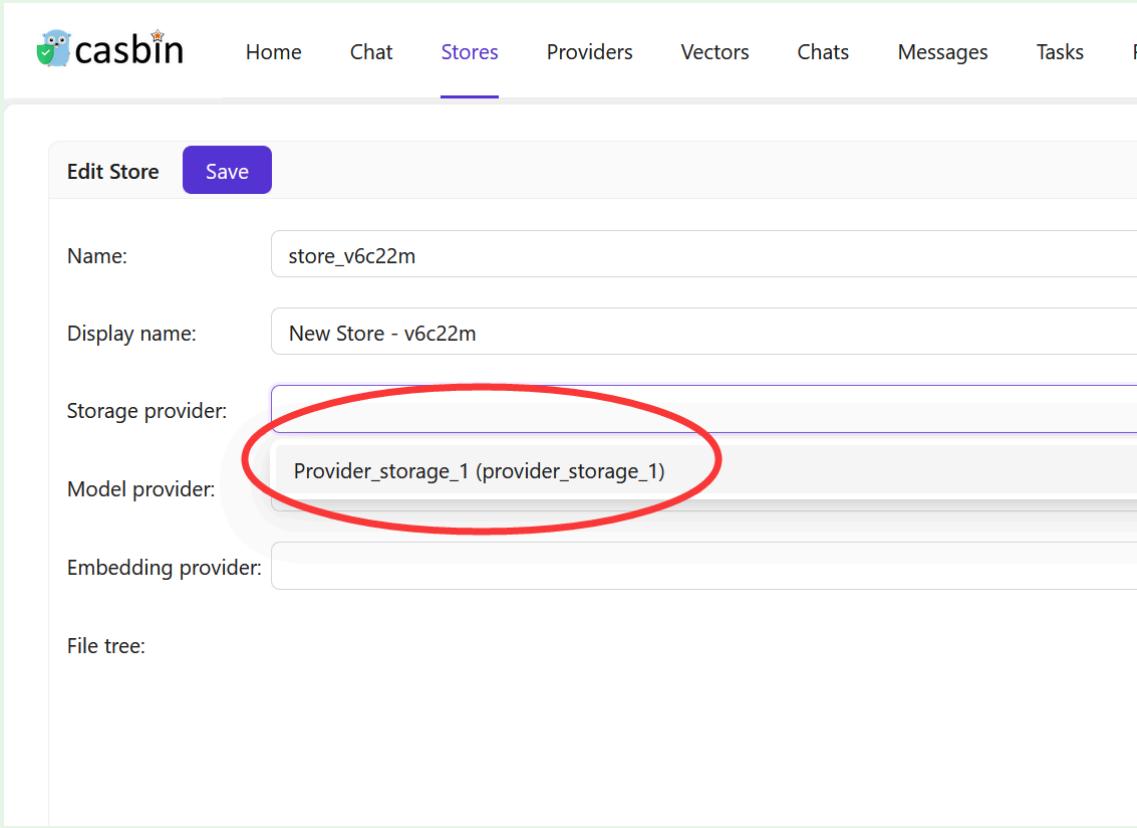
After adding the storage provider, you can view the storage provider information.

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...	Edit Delete



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)" circled in red.
- Model provider: (empty)
- Embedding provider: (empty)
- File tree: (empty)

At the top left of the form, there is a "Save" button. The entire screenshot is set against a light green background.

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 Casibin web application interface. At the top, there is a navigation bar with links: Home, Chat, Stores, Providers, Vectors, Chats, Messages, Tasks, Resources, Permissions, and Logs. On the far right, there is a user profile icon for 'Jimmy'.

The main area features a sidebar on the left containing a file tree. A red circle highlights the 'alibaba_oss' folder under 'My_Store'. The tree structure includes:

- 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.tif (768 KB)
 - video
 - my_video.mkv (456 KB)

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.

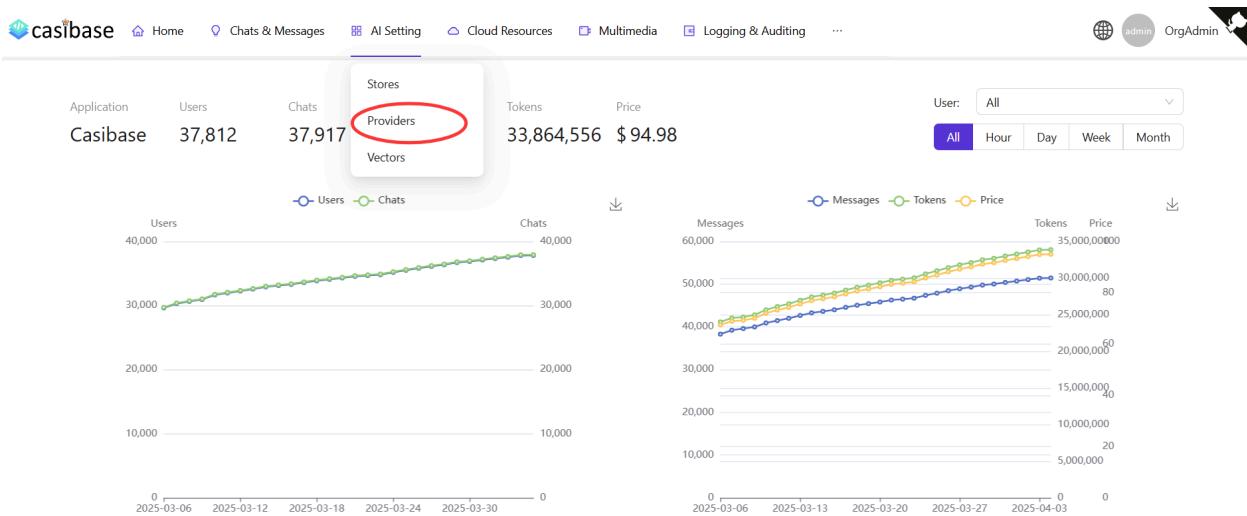
Step 1: Deploy Casdoor and Casibase

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.



Step 2.1: Add a Model Provider

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

The table lists existing providers and has a header row with columns: Name, Display name, Category, Type, Sub type, API key, Secret key, Region. A blue-bordered **Add** button is located at the top left of the table.

Name	Display name	Category	Type	Sub type	API key	Secret key	Region
provider tts_alibabacloud_cosyvoice	Provider TTS AlibabaCloud Cosyvoice	Text-to-Speech	Alibaba Cloud	cosyvoice-v1		***	
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjqUxnNltkKdIQvAWcS1JK4XidG	***	ap-beijing
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAioN6xi2LMg	***	cn-beijing
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_2	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_3	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_embedding_openai_v3	Provider Embedding OpenAI V3	Embedding	OpenAI	text-embedding-ada-002		***	
provider_model_openai_gpt4_vision	Provider Model OpenAI GPT4 Vision	Model	OpenAI	gpt-4-vision-preview		***	

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:

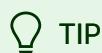
OpenAI

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
 -

CAUTION

- 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.

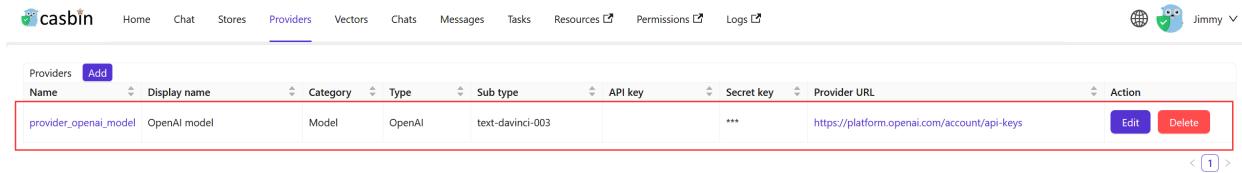
⚠ CAUTION

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	***		https://platform.openai.com/account/api-keys	<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:

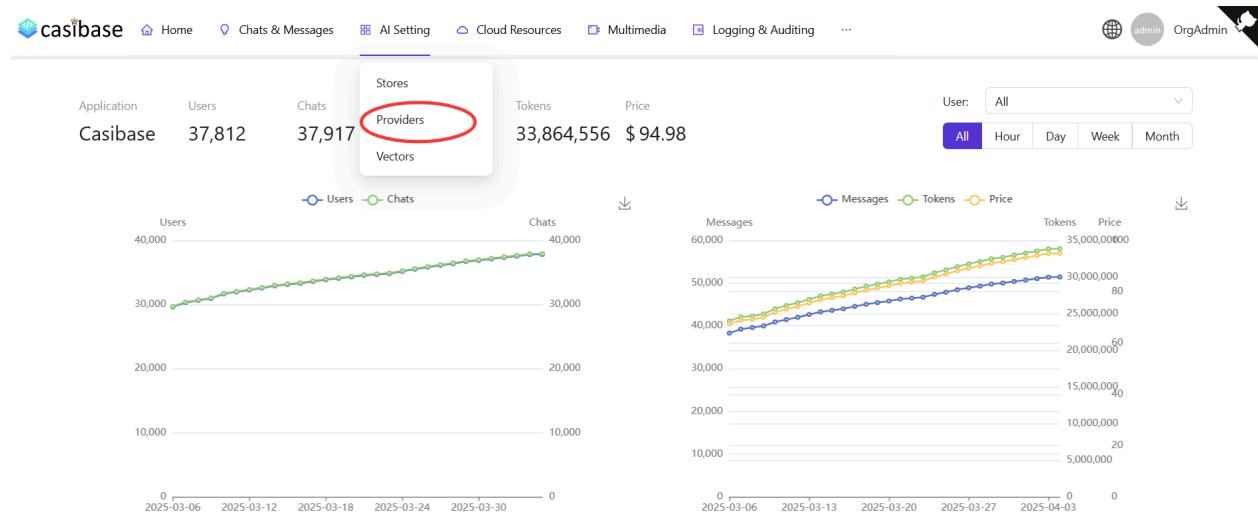
Step 1: Deploy Casdoor and Casibase

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.



Step 2.1: Add an Embedding Provider

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

The screenshot shows the 'Providers' table page. The 'Add' button in the top-left corner is circled in red. The table has columns for Name, Display name, Category, Type, Sub type, API key, Secret key, and Region. There are 11 rows of data, each representing a different provider. The last row is currently being edited, as indicated by the cursor in the 'Name' field.

Name	Display name	Category	Type	Sub type	API key	Secret key	Region
provider tts alibabacloud cosyvoice	Provider TTS AlibabaCloud Cosyvoice	Text-to-Speech	Alibaba Cloud	cosyvoice-v1		***	
provider blockchain chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjvqUrxnNltkKdfQvAWCs1JK4XidG	***	ap-beijing
provider model alibabacloud deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	
provider cloud alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAioN6xi2LMg	***	cn-beijing
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	
provider model azure gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider model azure gpt4_2	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider model azure gpt4_3	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider embedding openai v3	Provider Embedding OpenAI V3	Embedding	OpenAI	text-embedding-ada-002		***	
provider model openai gpt4 vision	Provider Model OpenAI GPT4 Vision	Model	OpenAI	gpt-4-vision-preview		***	

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](#)

TIP

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		***	https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>
model_openai_text_davinci_003	Model OpenAI text-davinci-003	Model	OpenAI	text-davinci-003		***	https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>

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 Text-to-Speech Model Provider

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

Introduction

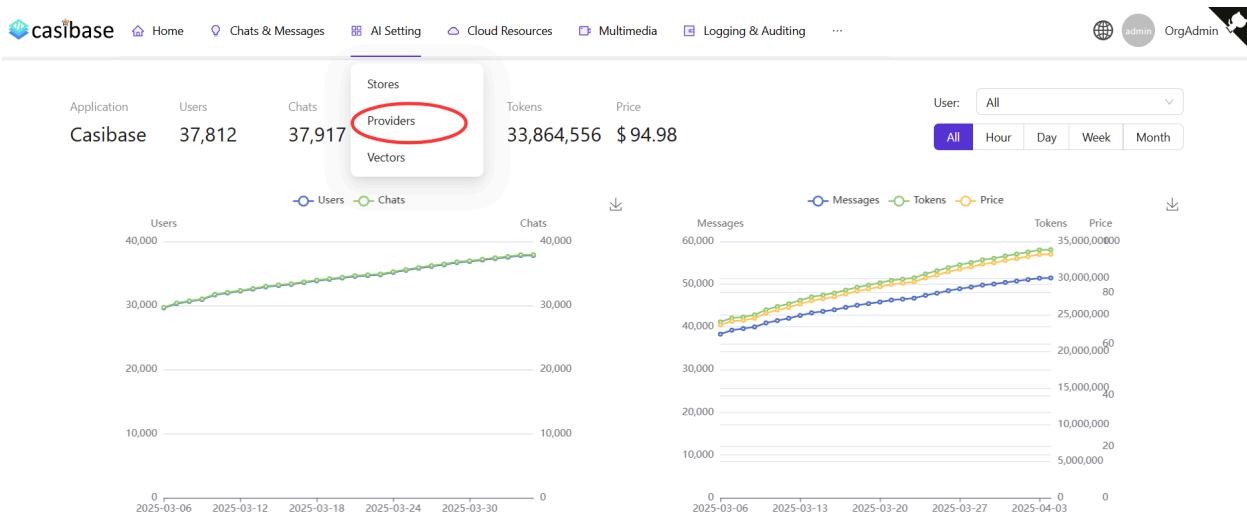
Text-to-Speech (TTS) is a technology that converts text into spoken voice output. TTS providers allow your Casibase applications to communicate with users through synthesized speech, enhancing the user experience and accessibility of your knowledge base system.

In Casibase, integrating a TTS provider enables your AI applications to verbally respond to queries, creating more interactive and engaging user experiences.

Add a New Text-to-Speech Provider

Text-to-Speech providers are used to integrate voice synthesis capabilities into Casibase. You can add them by following these steps:

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



Add a Text-to-Speech Provider

Click the **Add** button to add a Text-to-Speech provider.

The table lists various providers:

Name	Display name	Category	Type	Sub type	API key	Secret key	Region
provider_tts_alibabacloud_cosyvoice	Provider TTS AlibabaCloud Cosyvoice	Text-to-Speech	Alibaba Cloud	cosyvoice-v1		***	
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjqUxnNltkKdIQyAWcS1JK4XidG	***	ap-beijing
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAioN6xi2LMg	***	cn-beijing
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_2	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_3	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_embedding_openai_v3	Provider Embedding OpenAI V3	Embedding	OpenAI	text-embedding-ada-002		***	
provider_model_openai_gpt4_vision	Provider Model OpenAI GPT4 Vision	Model	OpenAI	gpt-4-vision-preview		***	

Fill in Text-to-Speech Provider Details

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

Edit Provider Save Save & Exit

Name: provider_tts_alibabacloud_cosyvoice

Display name: Provider TTS AlibabaCloud Cosyvoice

Category: Text-to-Speech

Type: Alibaba Cloud

Sub type: cosyvoice-v1

Flavor: longxiaochun

Secret key ⓘ: ***

Provider URL: [https://bailian.console.aliyun.com/?apiKey=1#/api-key](https://bailian.console.aliyun.com/?apiKey=1#/)

State: Active

Save Save & Exit

 **TIP**

Casibase currently supports the following Text-to-Speech provider:

- Alibaba Cloud
 - cosyvoice-v1 (with multiple voice options)

Testing Your Text-to-Speech Provider

You can test your TTS provider by clicking the `Read it out` button. This will allow you to enter text and hear the synthesized speech output.

The screenshot shows the 'Edit Provider' page in the casibase AI Settings. The provider is named 'provider_r7fdnn' with a display name 'New Provider - r7fdnn'. It belongs to the 'Text-to-Speech' category and is of type 'Alibaba Cloud' (cosyvoice-v1). The flavor is set to '龙小淳, 女, 中英双语'. A secret key placeholder '***' is present. A 'Provider test' section contains the text 'Hello, I'm casibase AI.' with a 'Read it out' button, which is highlighted with a red box. The provider URL is listed as <https://platform.openai.com/account/api-keys>. The state is set to 'Active'. At the bottom are 'Save' and 'Save & Exit' buttons.

This testing feature allows you to verify your TTS configuration before implementing it in your applications, ensuring the voice quality and settings meet your requirements.

Voice Options for Alibaba Cloud

When using Alibaba Cloud's `cosyvoice-v1`, you can choose from various voice options:

- longwan
- longcheng
-

Using Text-to-Speech in Stores

After adding a Text-to-Speech provider, you can select this provider in your store settings and choose whether to enable TTS streaming.

Edit Store

Name:	store-built-in
Display name:	Built-in Store
Title:	
Avatar:	
Storage provider:	Built-in Storage Provider (provider-storage-built-in)
Image provider:	Storage Aliyun OSS Casibase Casbin (provider_storage_casibase_casbin)
Split provider:	Default
Model provider:	Provider Model Azure GPT-4 (provider_model_azure_gpt4)
Embedding provider:	Provider Embedding OpenAI V3 (provider_embedding_openai_v3)
Text-to-Speech provider:	Provider TTS AlibabaCloud Cosyvoice (provider tts_alibabacloud_cosyvoice)
Enable TTS streaming:	<input checked="" type="checkbox"/>
Frequencies	<input type="text" value="5"/>

Now, your store can convert text responses to speech, providing a more interactive experience for users.

Add a Speech-to-Text Provider

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

Introduction

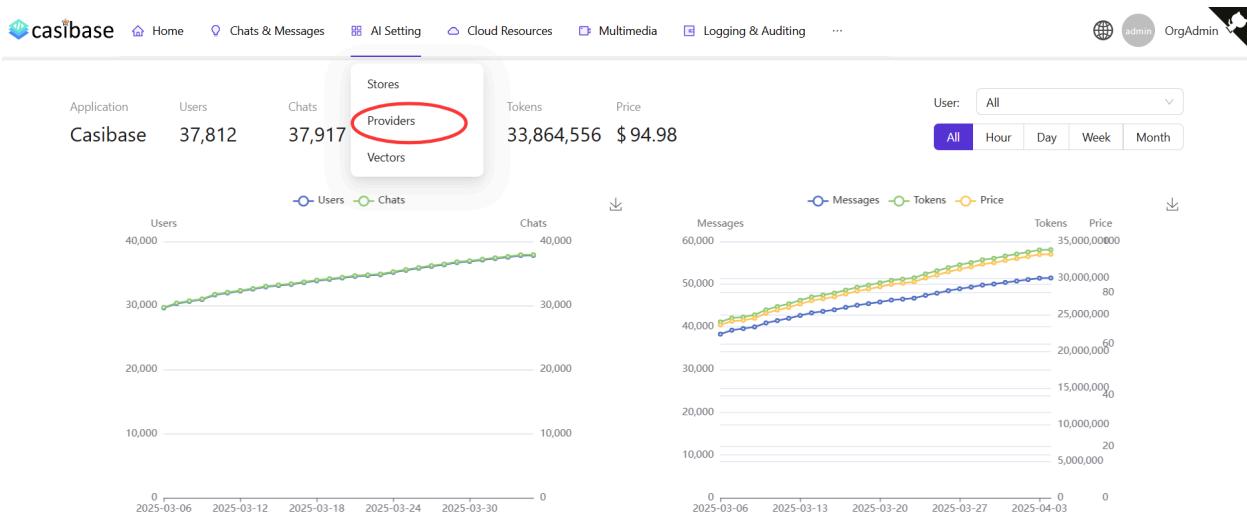
Speech-to-Text (STT) is a technology that converts spoken language into written text. STT providers allow your Casibase applications to understand and process spoken user input, enhancing the user experience and accessibility of your knowledge base system.

In Casibase, integrating an STT provider enables your AI applications to receive and process voice queries, creating more interactive and natural user interactions.

Add a New Speech-to-Text Provider

Speech-to-Text providers are used to integrate voice recognition capabilities into Casibase. You can add them by following these steps:

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



Add a Speech-to-Text Provider

Click the **Add** button to add a Speech-to-Text provider.

The table lists the following providers:

Name	Display name	Category	Type	Sub type	API key	Secret key	Region
provider_tts_alibabacloud_cosyvoice	Provider TTS AlibabaCloud Cosyvoice	Text-to-Speech	Alibaba Cloud	cosyvoice-v1		***	
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjqUxnNltkKdIQyAWcS1JK4XidG	***	ap-beijing
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAioN6xi2LMg	***	cn-beijing
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_2	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_3	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_embedding_openai_v3	Provider Embedding OpenAI V3	Embedding	OpenAI	text-embedding-ada-002		***	
provider_model_openai_gpt4_vision	Provider Model OpenAI GPT4 Vision	Model	OpenAI	gpt-4-vision-preview		***	

Fill in Speech-to-Text Provider Details

Fill in the speech-to-text provider details and click the **Save & Exit** button.

The screenshot shows the Casibase AI Setting interface with the 'Edit Provider' section active. A red box highlights the provider configuration fields:

- Name: provider_njowpc
- Display name: New Provider - njowpc
- Category: Speech-to-Text
- Type: Alibaba Cloud
- Sub type: paraformer-realtime-v1
- Secret key: ***

Below these fields are the Provider URL (https://platform.openai.com/account/api-keys) and State (Active). At the bottom are 'Save' and 'Save & Exit' buttons.

Powered by casibase

Using Voice Recognition

When you click the voice recognition button in your Casibase application, the following process occurs:

1. The browser will request permission to access your microphone
2. Once granted, the system will begin listening and automatically convert your speech to text
3. After you finish speaking, the recognized text will be automatically sent as a message

Store: New Store - dir... ▾

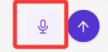
Model: New Provider - 8mi1... ▾



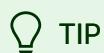
Hello, I'm Casibase AI Assistant

I'm here to help answer your questions

Type message here



This feature enables hands-free interaction with your Casibase applications, making them more accessible and convenient to use.



TIP
Casibase currently supports the following Speech-to-Text provider:

- [Alibaba Cloud](#)
 - paraformer-realtime-v1

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.

 CAUTION

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	Model provider
my_store	My_Store	provider_storage	model_provider

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:

Stores Add

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

< 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.

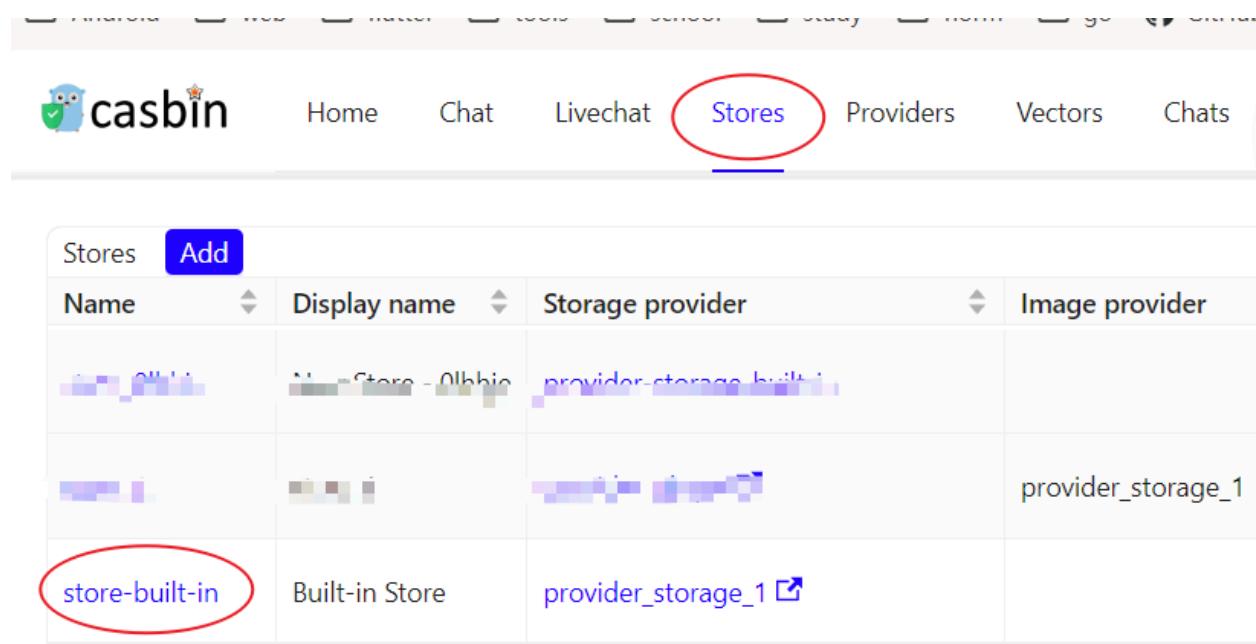
Support Multi-store

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

Step 1: Enable Multi-store

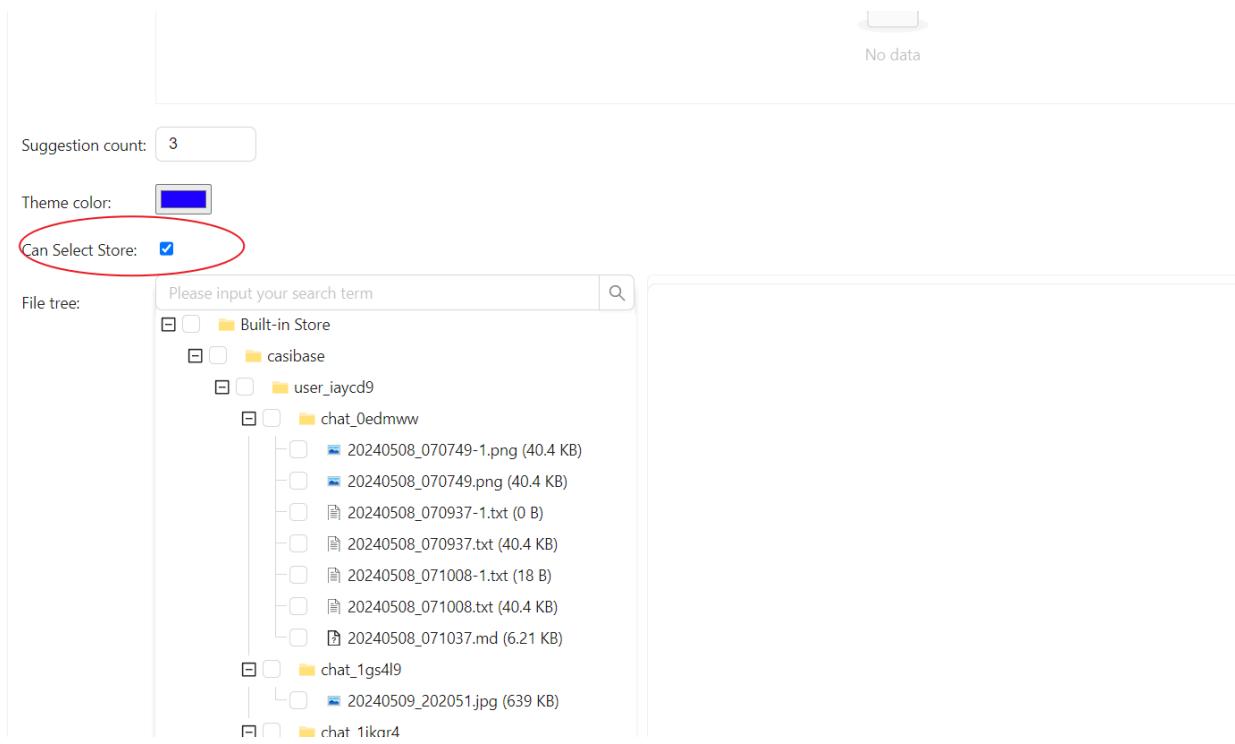
First, you should enable multi-store mode in the built-in store.

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

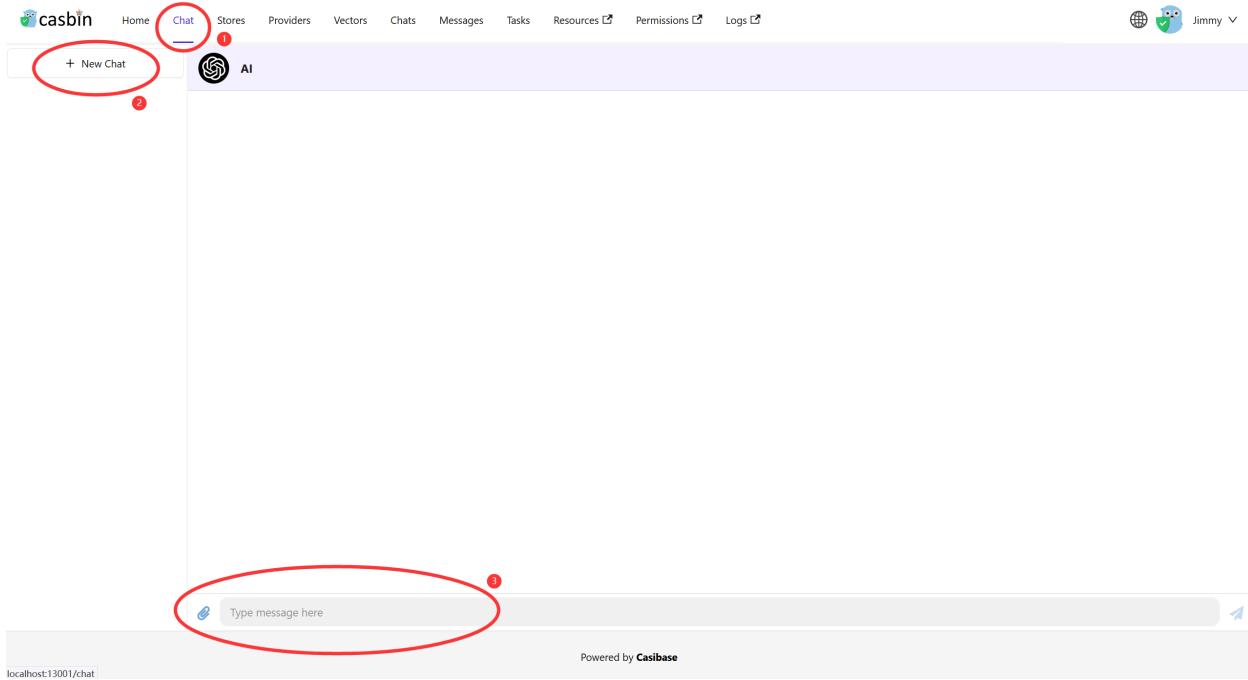
In previous sections, we have deployed Casdoor and Casibase, integrated a storage provider, a model provider, and a embedding provider with Casibase, and added a store to use these providers.

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	View Refresh Vectors Edit Delete

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...]	Edit Delete
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...]	Edit Delete
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...]	Edit Delete
vector_3tet51	Casdoor Knowledge Points	my_store	alibaba_oss/document/casdoor-knowledge.pdf	Casdoor Knowledge Points Casdoor is...	[-0.007692282,0.024387684,0.0001651...]	Edit Delete

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:



A screenshot of a web application interface. At the top left is a circular icon with a stylized 'A' and the word 'AI'. To its right is another circular icon with a checkmark and the text 'What's casdoor?'. Below these are two sections: one for 'Casdoor' and one for 'What's casdoor?'.

⚠ CAUTION

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.

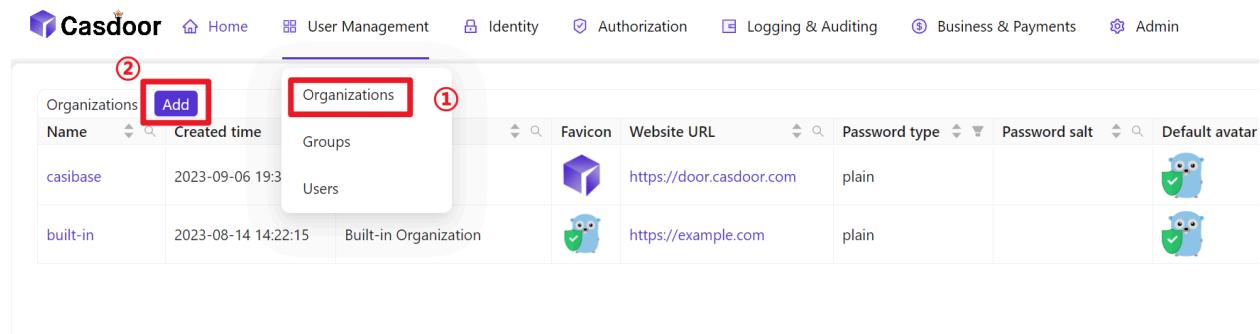
Casdoor-SO

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 19:3	Users		https://door.casdoor.com	plain		
built-in	2023-08-14 14:22:15	Built-in Organization		https://example.com	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> : https://cdn.casbin.org/img/favicon.png
Preview:	
	
Website URL <small>②</small> :	https://door.casdoor.com
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			Applications		
Name	Created time	Display name	Providers	Organization	Providers
app-casibase	2023-09-06 19:38:54	Casibase	 Casdoor	casibase	 provider_captcha_default
app-built-in	2023-08-14 14:22:15	Casdoor	 Casdoor	built-in	 provider_captcha_default

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

The screenshot shows the 'Edit Application' form in the Casdoor dashboard. The 'Name' field is set to 'app-casibase' (1). The 'Display name' field is set to 'Casibase'. The 'Organization' field is set to 'casibase' (2). The 'Client ID' field is set to '548c8b9c7431d2621db1' (3). The 'Client secret' field contains the value '2bc7640d487fc4dea6f4b77f07f1bf4433e4ad40' (4). Other fields like 'Logo', 'URL', and 'Cert' are also visible.

- Create a Certificate: In the Casdoor dashboard, choose Cert → Add, keep Algorithm as RS256 (default), enter a name, and click Save.

The screenshot shows the 'New Cert' form in the Casdoor dashboard. The 'Name' field is set to 'cert_casbin' (1). The 'Display name' field is set to 'New Cert - casbin'. The 'Scope' field is set to 'JWT'. The 'Type' field is set to 'x509'. The 'Crypto algorithm' field is set to 'RS256 (RSA + SHA256)' (2). The 'Bit size' field is set to '4096'. The 'Exire in years' field is set to '20'. The 'Certificate' section shows the certificate content starting with '-----BEGIN CERTIFICATE-----' and ends with '-----END RSA PRIVATE KEY-----'. The 'Cert' field at the bottom is set to 'cert_casbin'.

- Bind the Certificate to the Application: Open the *Config* tab of your newly

created Application, select the certificate you just created from the Cert dropdown, and click Save.



- Add a member to the newly created organization

A screenshot of the Casdoor "User Management" section under "Organizations". There is a table with two rows: "casibase" and "built-in". For each row, 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 box), and "Edit/Delete". At the bottom right of the table, it says "2 in total" and "10 / pag".

A screenshot of the Casdoor "User Management" section under "Users". There is a table with one row. The columns are: Organization, Application, Name, Created time, Display name, Avatar, Email, Phone, and Affiliation. The row data is: "casibase", "app-casibase", "user_e6y4db", "2023-09-06 19:37:26", "New User - e6y4db", a blue owl icon, "e6y4db@example.com", "83359893102", and "Example Inc.". Above the table, there is a header with "Users", "Add" (highlighted with a red box), and "Upload (xlsx)".

- 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:

Deployment

Deploy Casdoor and Casibase

Discover how to deploy Casdoor and Casibase.

Deploy Casdoor and Casibase

Introduction



What is Casdoor?

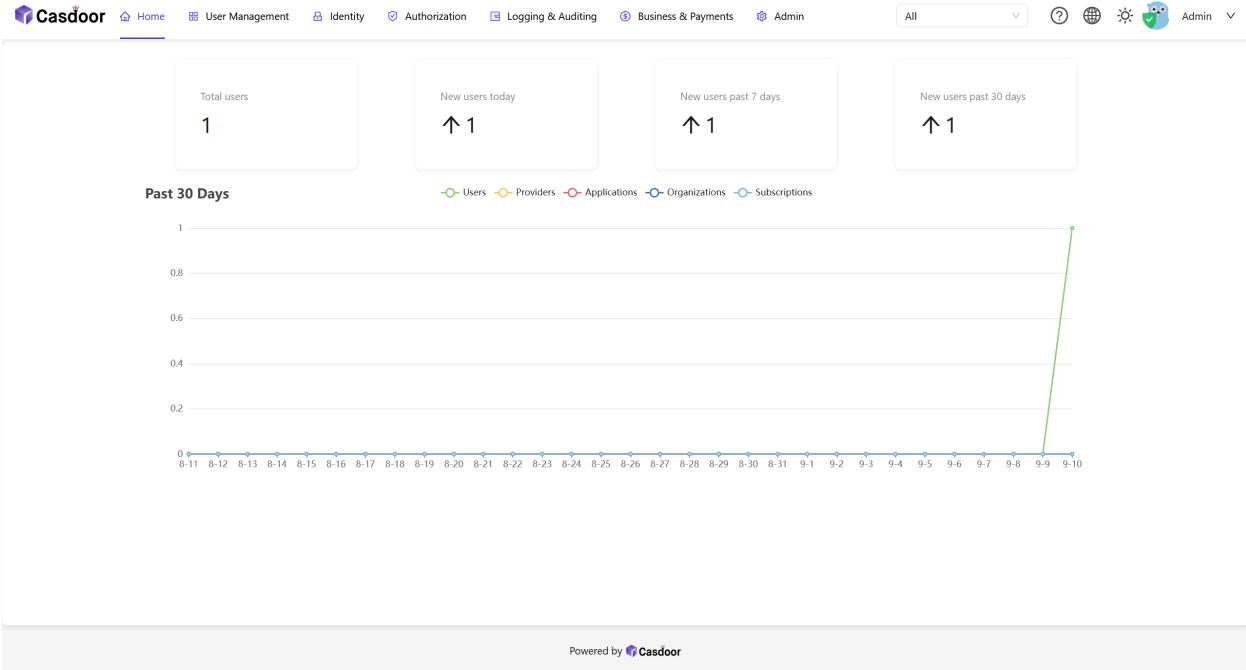
Casdoor is a powerful authentication system that provides a secure and reliable login experience. It's a prerequisite for Casibase, so be sure to deploy it first.

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

Step 1: Deploy Casdoor

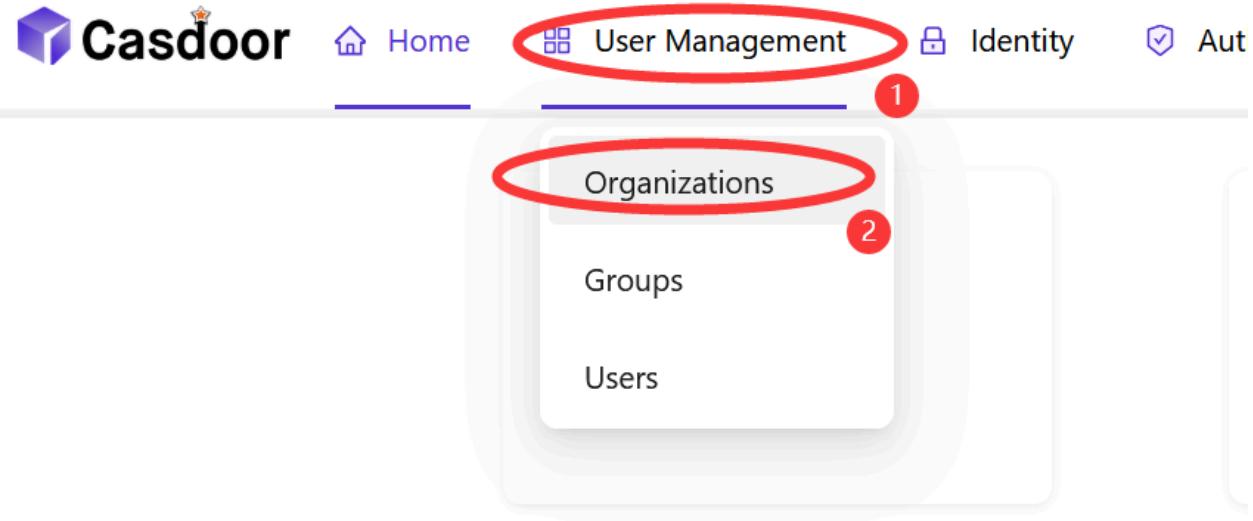
In [Casdoor Deployment Guide](#), you can find the detailed steps to deploy Casdoor.

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

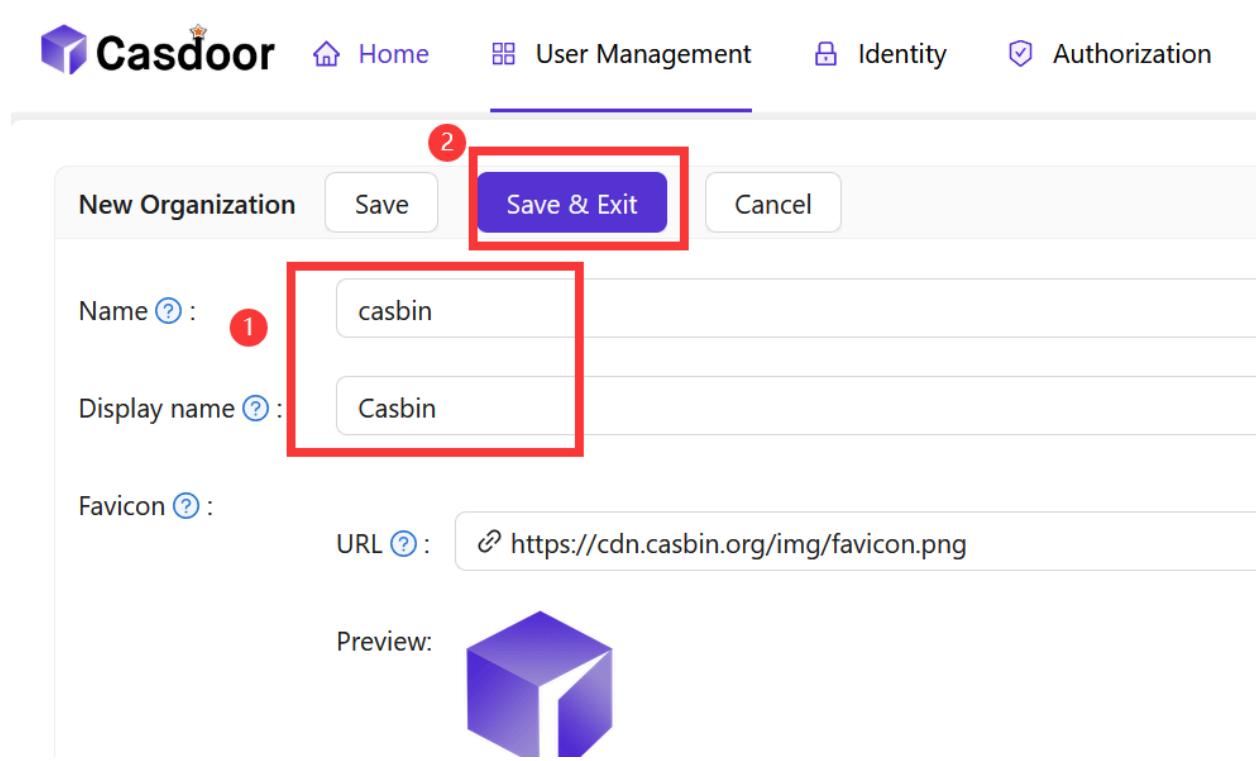
Click the **Add** button to add an organization.

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 ? :

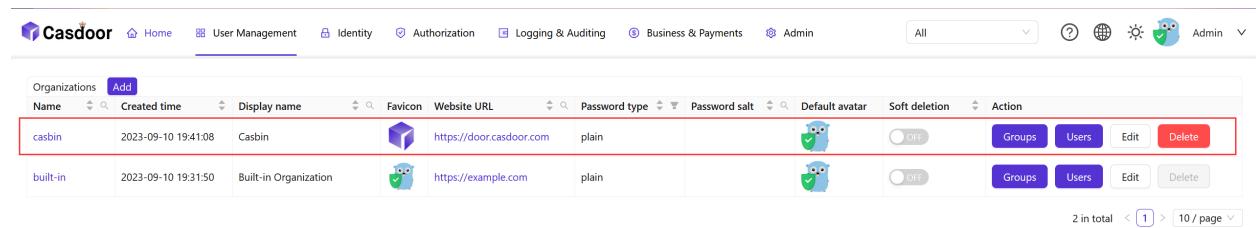
URL ? : <https://cdn.casbin.org/img/favicon.png>

Preview:



Step 2.3: View the organization

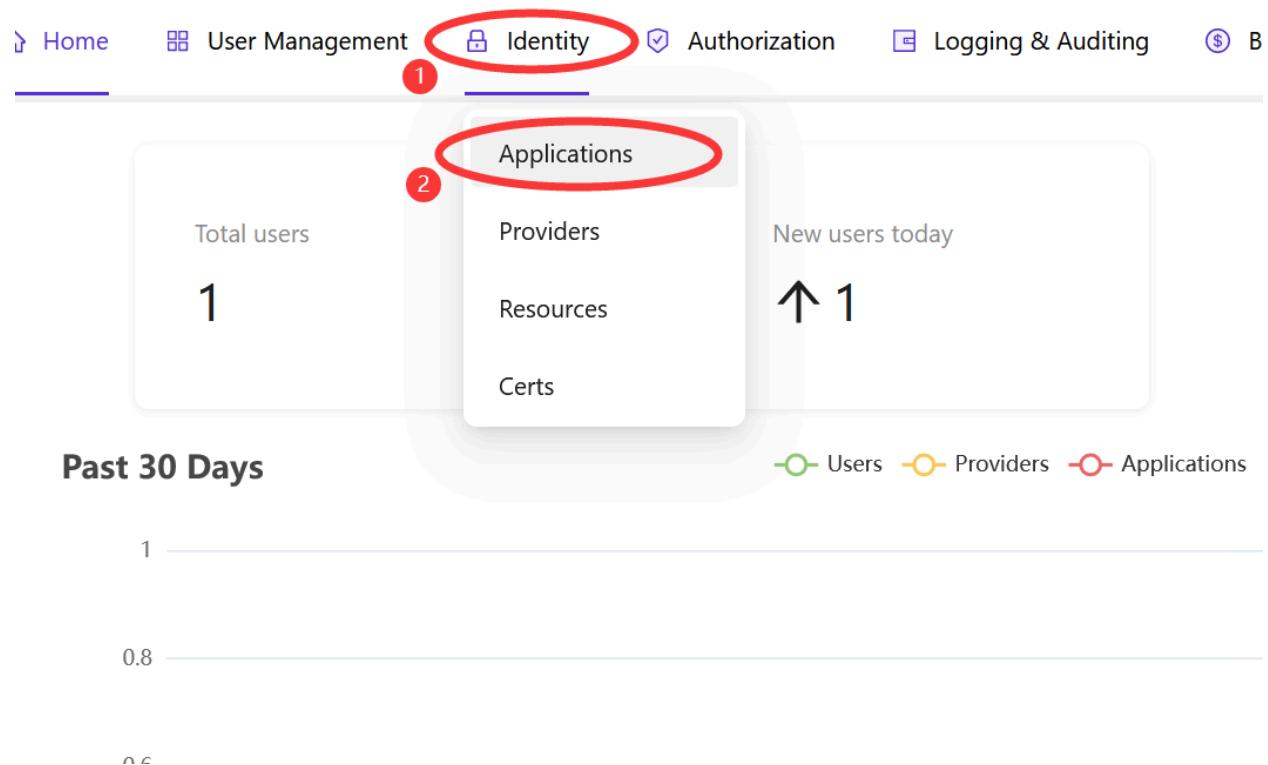
After adding the organization, you can view the organization information.



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		https://door.casdoor.com	plain			<input checked="" type="radio"/>	Groups Users Edit Delete
built-in	2023-09-10 19:31:50	Built-in Organization		https://example.com	plain			<input checked="" type="radio"/>	Groups Users Edit Delete

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

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

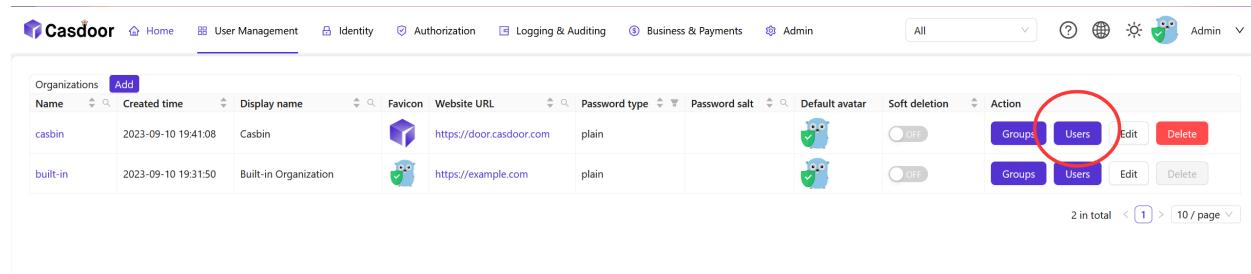
Applications Add

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

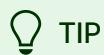
2 in total < 1 > 10 / page

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 web application with the URL [https://casdoor-casibase.ondigitalocean.app](#). The navigation bar includes Home, User Management (which is active), Identity, Authorization, Logging & Auditing, Business & Payments, Admin, and a language switch. The main content area displays a table of organizations. The first row, 'casbin', has columns for Name (casbin), Created time (2023-09-10 19:41:08), Display name (Casbin), Favicon (blue cube icon), Website URL (<https://door.casdoor.com>), Password type (plain), Password salt (empty), Default avatar (owl icon), Soft deletion (OFF), and Action (Buttons for Group, Users, Edit, Delete). The 'Users' button is highlighted with a red circle. The second row, 'built-in', has similar fields. At the bottom right of the table, it says '2 in total' and shows page navigation.

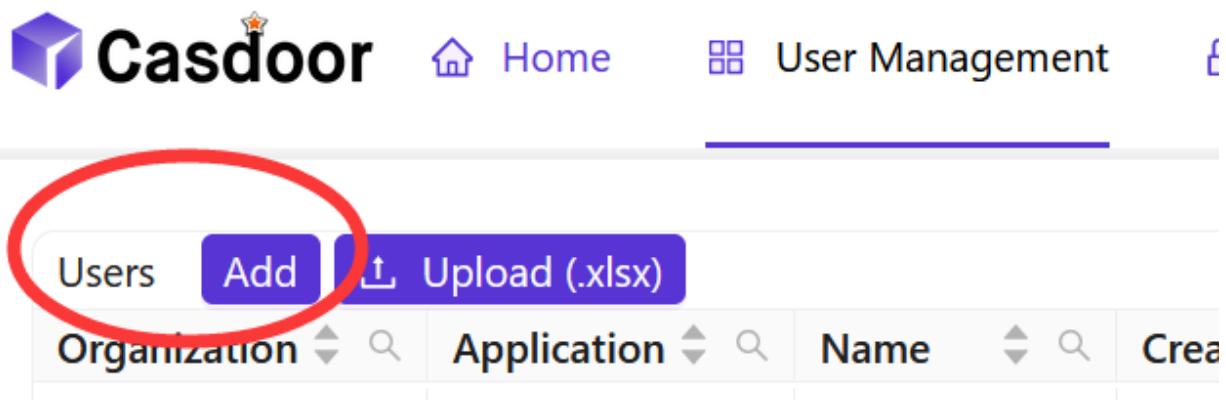


A user is a member of an organization who can login to applications in the organization.

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

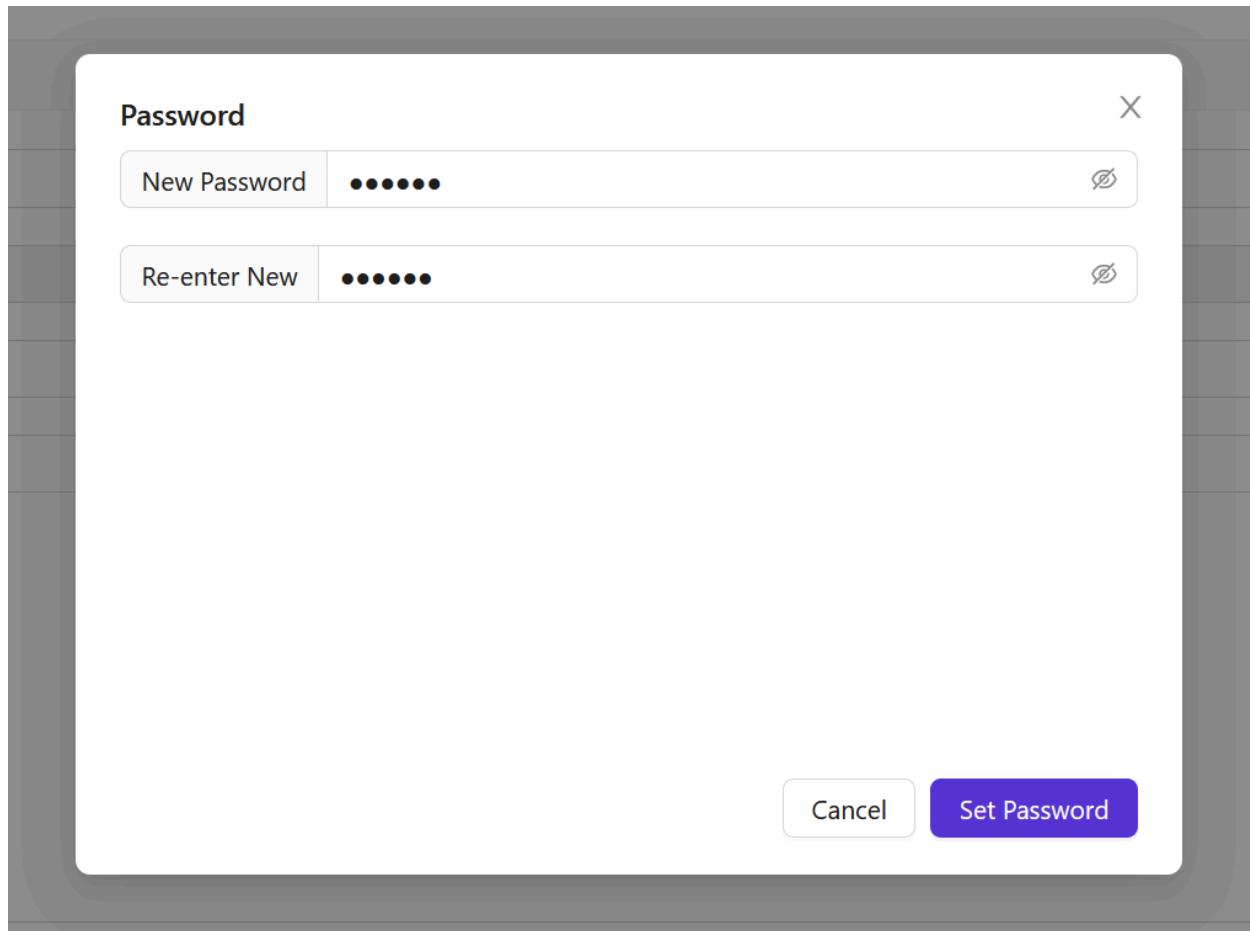
Phone [?](#): +1 71700415009

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 tabs for Home, User Management (which is selected), Identity, Authorization, Logging & Auditing, Business & Payments, Admin, and a language switch. Below the tabs is a search bar with dropdowns for Organization, Application, Name, Created time, Display name, Avatar, Email, Phone, Affiliation, Country/Region, Tag, and Is ac. A red box highlights the 'Organization' dropdown set to 'casbin'. The main area displays a table with one row of data:

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

At the bottom right of the table, there are buttons for '1 in total', navigation arrows, and '10 / page'.

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**

How to Connect to Casibase

Overview

Learn about different ways to connect to and integrate with Casibase.

Casibase SDKs

Learn how to integrate and use Casibase SDKs with your applications.

Using Casibase OpenAI API Compatible Interface

Learn how to connect external chat UIs to Casibase using OpenAI API compatibility.

Overview

Overview

In this section, we will show you how to connect your application to Casibase.

Casibase provides two main methods for integrating with your applications:

- `Casibase SDK` - For direct integration with Casibase's API
- `OpenAI API Compatibility` - For connecting existing OpenAI-compatible UIs and clients

Casibase SDK

What is Casibase SDK?

Casibase SDK provides a programmatic way to interact with Casibase services. It offers a convenient set of APIs that allow developers to manage tasks, knowledge bases, and other features of Casibase directly from their applications.

We recommend using the Casibase SDK for the following reasons:

1. It provides direct access to Casibase-specific functionality
2. It simplifies authentication and configuration
3. It handles error cases and provides a more developer-friendly experience

Currently, Casibase offers a Java SDK, with more language support planned for the future.

OpenAI API Compatibility

What is OpenAI API Compatibility?

Casibase supports the OpenAI API format, allowing you to connect any OpenAI-compatible chat UI or client application to Casibase. This makes it easy to use popular open-source chat interfaces with Casibase's backend.

We recommend using the OpenAI API compatibility for the following reasons:

1. It allows you to use your preferred chat UI with Casibase
2. It simplifies integration if you're already using OpenAI-compatible tools
3. It provides a standardized way to interact with Casibase's AI capabilities

This approach is particularly useful if you want to quickly integrate Casibase with existing applications that already support the OpenAI API format.

Casibase SDKs

Introduction

Casibase provides SDKs to help developers integrate with Casibase's APIs more easily. The SDKs offer a convenient way to interact with Casibase's services for tasks like managing AI conversations, knowledge bases, and more.

Currently, Casibase offers a Java SDK, with more language support planned for the future.

Backend SDK	Description	SDK code	Example code
Java SDK	For Java backends	casibase-java-sdk	-

How to use Casibase SDK?

1. Backend SDK configuration

When your application starts up, you need to initialize the Casibase SDK config by providing the required parameters.

Take casibase-java-sdk as an example:

```
CasibaseConfig config = new CasibaseConfig(  
    "https://demo-admin.casibase.com", // endpoint  
    "your-client-id", // clientId  
    "your-client-secret", // clientSecret
```

All the parameters for initialization are explained as follows:

Parameter	Required	Description
endpoint	Yes	Casibase Server URL, like https://demo-admin.casibase.com or http://localhost:14000
clientId	Yes	Client ID for the Casibase application
clientSecret	Yes	Client secret for the Casibase application
organizationName	Yes	The name for the Casibase organization, e.g., casbin
applicationName	No	The name for the Casibase application, e.g., app-casibase

2. Available Services

Once you have initialized the configuration, you can create and use the available services. Currently, the only available service is `TaskService`.

```
TaskService taskService = new TaskService(config);
```

TaskService

`TaskService` supports basic task operations, such as:

- `getTask(String name)`: Get a single task by task name.
- `getTasks()`: Get all tasks under the `organizationName`.

- `addTask(Task task)`: Add a new task to the database.
- `updateTask(Task task)`: Update an existing task in the database.
- `deleteTask(Task task)`: Delete a task from the database.

Using Casibase OpenAI API Compatible Interface

This document is a step-by-step tutorial designed for beginners. It will guide you through the process of connecting external chat UIs to Casibase using its OpenAI API compatibility feature.

Introduction

Casibase now supports integration with external chat UIs through OpenAI API compatibility. This feature allows you to use popular open-source chat interfaces with Casibase's backend, giving you more flexibility in how you interact with your knowledge base system.

If you're looking to use your preferred chat UI with Casibase, this guide will walk you through the simple setup process.

Step 1: Set Up Casibase with a Model Provider

Before connecting an external UI, ensure you have Casibase properly set up with a model provider. If you haven't done this yet, please refer to the [Add an AI Model Provider](#) tutorial.

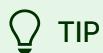
Step 2: Get Your OpenAI-compatible API Key

When you create a model provider in Casibase, an API key is automatically generated. This key allows external applications to communicate with Casibase using the OpenAI API format.

Step 2.1: Access Your API Key

Navigate to the **Providers** section and select your model provider. Only administrators can view and modify API keys.

Name:	provider_prm93r
Display name:	New Provider - prm93r
Category:	Model
Type:	OpenAI
Sub type:	text-davinci-003
Client secret	(?)
Temperature:	1.00
Top P:	1.00
Presence penalty:	0.00
Frequency penalty:	0.00
API key:	sk-UflKsbYjzBvjeUFJbDpxuKg
Provider URL:	https://platform.openai.com/account/api-keys
State :	Active



If the API key field is empty, Casibase will automatically generate a new key when you save the provider.

Step 3: Configure Your External Chat UI

Once you have your API key, you can configure your external chat UI to connect to Casibase.

Step 3.1: Configure with chatgpt-web

For this example, we'll use [chatgpt-web](#), a popular open-source ChatGPT interface.

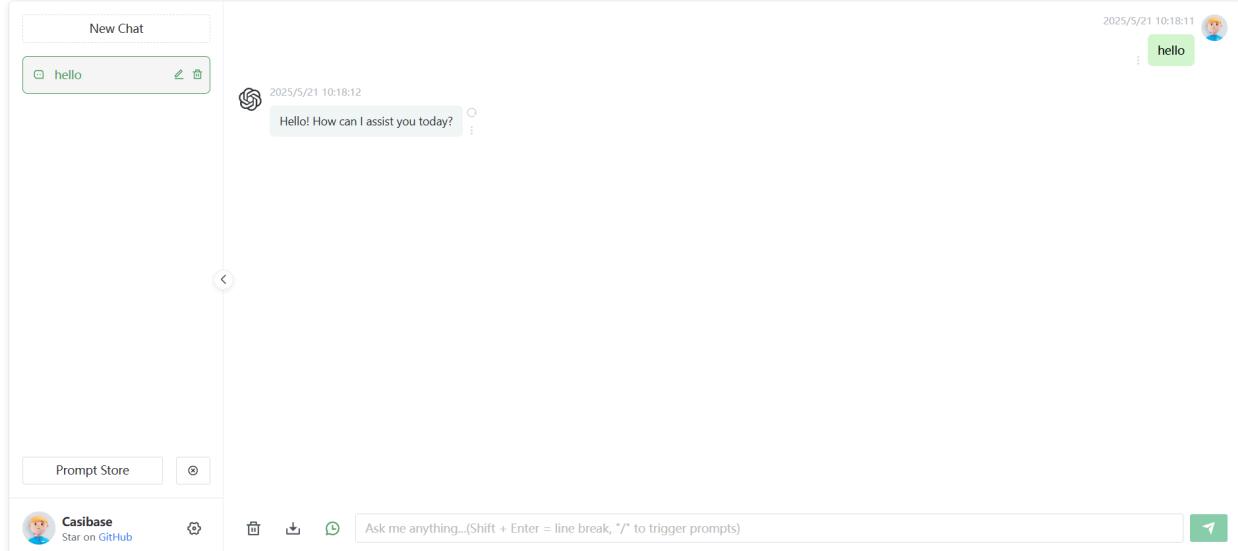
1. Locate the `service/.env` file in your chatgpt-web installation
2. Modify the following variables:
 - `OPENAI_API_KEY`: Set this to your Casibase-generated API key
 - `OPENAI_API_BASE_URL`: Set this to `http://your-casibase-backend:port/api`

```
# Example configuration
OPENAI_API_KEY=sk-UflKsbiYjzBvjeUFJbDpxuKg
OPENAI_API_BASE_URL=http://localhost:14000/api
```

Make sure your Casibase backend is accessible from the machine running your chat UI. Check firewall settings if you encounter connection issues.

Step 4: Test Your Integration

Start your chat UI application and test the connection. You should now be able to interact with Casibase through your preferred interface. If everything is set up correctly, you should see responses from Casibase in your chat UI.



Compatible Chat UIs

Casibase's OpenAI API compatibility has been tested with these popular chat interfaces:

- [chatgpt-web](#)

Other chat UIs that use the standard OpenAI API format should also work with Casibase.

Providers

Overview

Providers Overview

Model Providers

Introduction

Embedding Providers

Introduction

Storage Providers

Introduction



Text-to-Speech Providers

Introduction



Speech-to-Text 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.

4. Text-to-Speech Providers

Text-to-Speech (TTS) Providers is a component in Casibase that enables the conversion of text responses into natural-sounding speech. It allows the system to communicate with users through voice synthesis, enhancing the interactive experience of the knowledge base system.

Provider Support

Currently, Casibase supports Alibaba Cloud's Text-to-Speech service, with various voice options available through the cosyvoice-v1 interface. The system is designed to be extensible, allowing for the integration of additional TTS providers in the future.

5. Speech-to-Text Providers

Speech-to-Text (STT) Providers is a component in Casibase that enables the conversion of spoken language into written text. It allows the system to understand and process voice queries, enhancing the interactive experience of the knowledge base system.

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

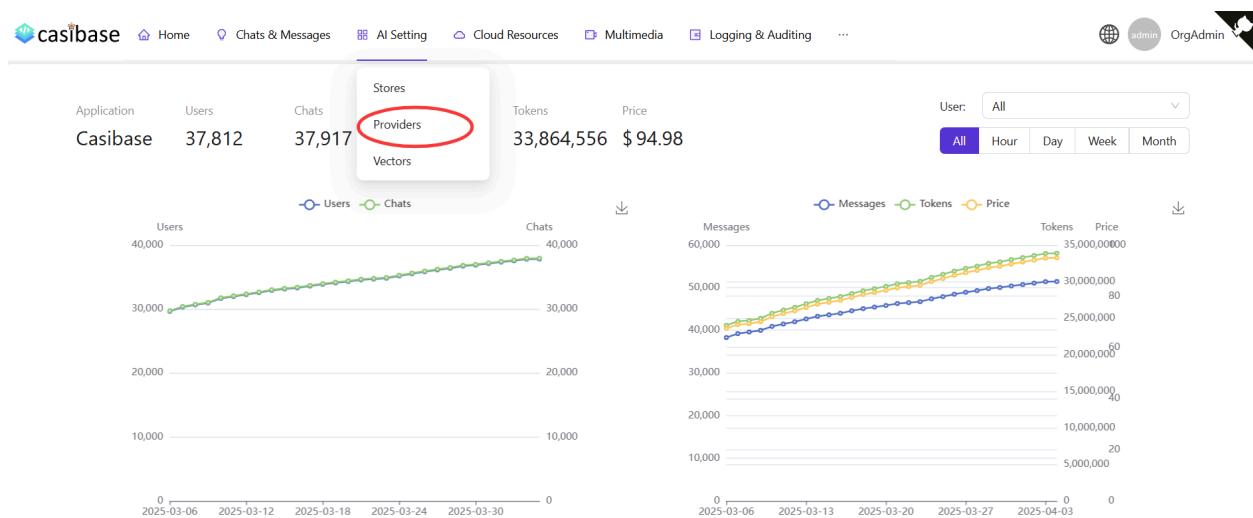
Introduction

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.



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

Providers	Add	Add Storage Provider						
Name		Display name	Category	Type	Sub type	API key	Secret key	Region
provider_tts_alibabacloud_cosyvoice		Provider TTS AlibabaCloud Cosyvoice	Text-to-Speech	Alibaba Cloud	cosyvoice-v1		***	
provider_blockchain_chainmaker		Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjqUrxnNltkKdfQvAWcs1JK4XidG	***	ap-beijing
provider_model_alibabacloud_deepseek_r1		Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	
provider_cloud_alibabacloud		Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTA15tHKUsopAioN6xi2LMg	***	cn-beijing
dall-e-3		dall-e-3	Model	OpenAI	dall-e-3		***	
provider_model_azure_gpt4_1		Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_2		Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_3		Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_embedding_openai_v3		Provider Embedding OpenAI V3	Embedding	OpenAI	text-embedding-ada-002		***	
provider_model_openai_gpt4_vision		Provider Model OpenAI GPT4 Vision	Model	OpenAI	gpt-4-vision-preview		***	

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:

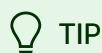
OpenAI

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
 -

CAUTION

- 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.

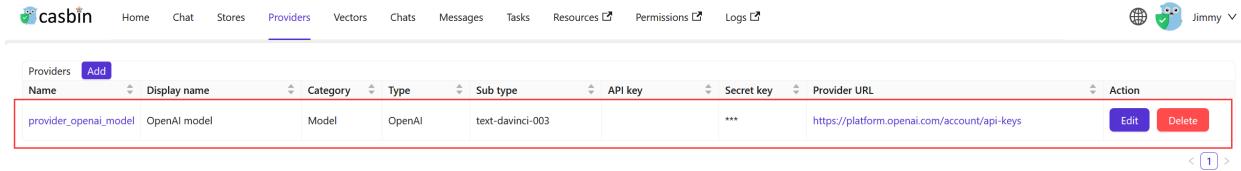
⚠ CAUTION

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	***		https://platform.openai.com/account/api-keys	<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.

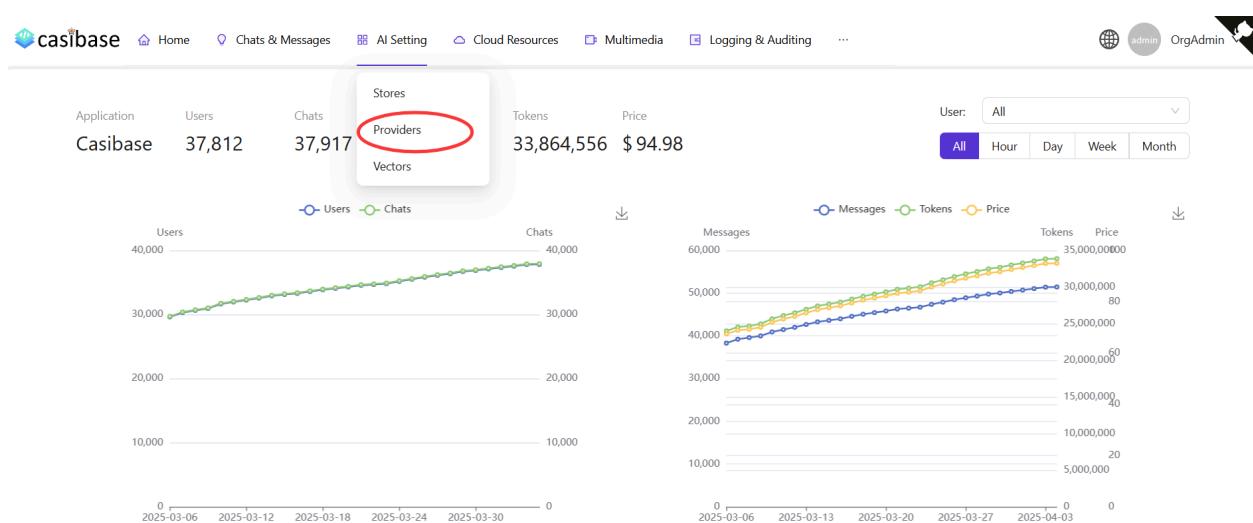
Refer to the [Core Concepts](#) section of our previous documentation for more information about embedding.

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

Add a New Embedding Provider

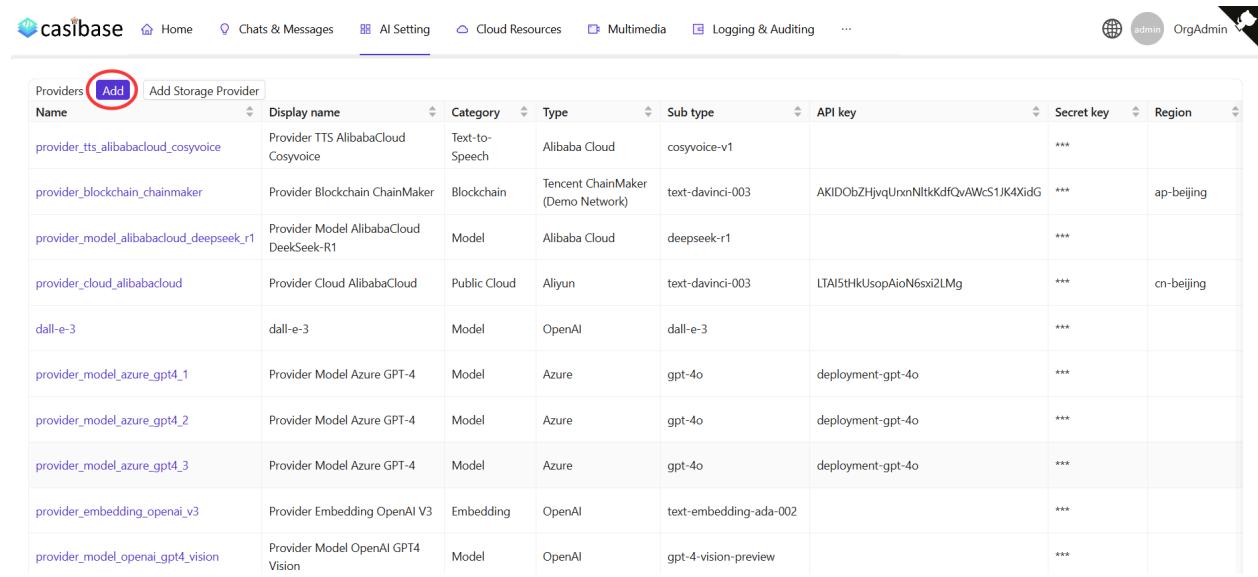
Embedding providers are used to integrate embedding into Casibase. You can add them by following these steps:

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



Add an Embedding Provider

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



Providers	Add	Add Storage Provider					
Name	Display name	Category	Type	Sub type	API key	Secret key	Region
provider_tts_alibabacloud_cosyvoice	Provider TTS AlibabaCloud Cosyvoice	Text-to-Speech	Alibaba Cloud	cosyvoice-v1		***	
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjqUrxnNltkKdfQvAWcS1JK4XidG	***	ap-beijing
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAioN6xi2LMg	***	cn-beijing
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_2	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_3	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_embedding_openai_v3	Provider Embedding OpenAI V3	Embedding	OpenAI	text-embedding-ada-002		***	
provider_model_openai_gpt4_vision	Provider Model OpenAI GPT4 Vision	Model	OpenAI	gpt-4-vision-preview		***	

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. At the top, there are navigation links: Home, Chat, Stores, Providers (which is highlighted in blue), Vectors, Chats, Messages, Tasks, Resources, Permissions, and Logs. On the right side, 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		***	https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>
model_openai_text_davinci_003	Model OpenAI text-davinci-003	Model	OpenAI	text-davinci-003		***	https://platform.openai.com/account/api-keys	<button>Edit</button> <button>Delete</button>

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.

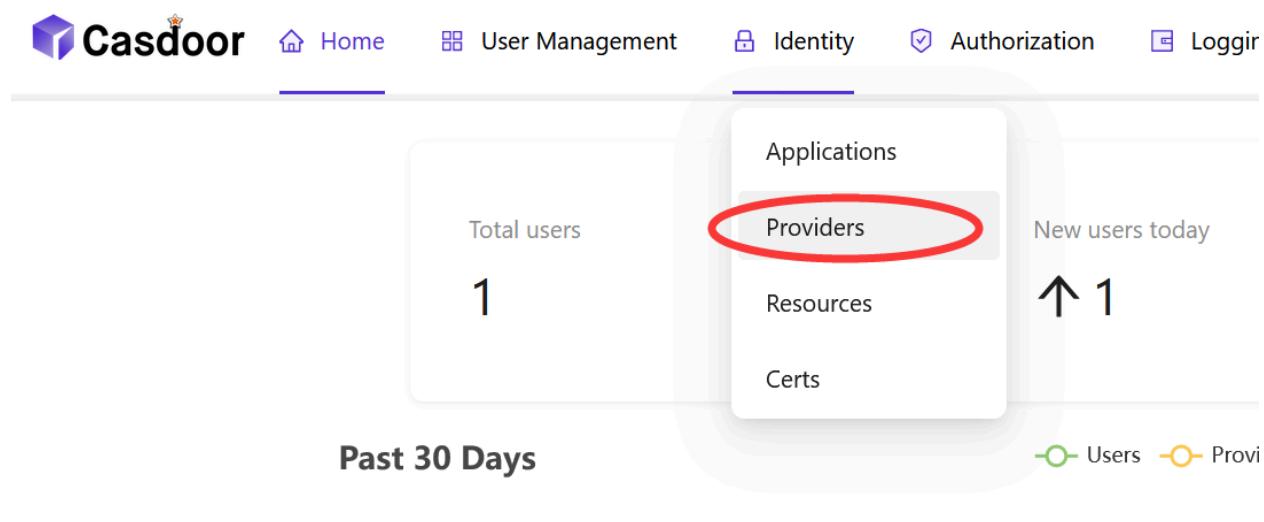
Storage Providers

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 & 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

Endpoint (Intranet) ②:

Local File System

:

MinIO

Bucket ②:

Qiniu Cloud Kodo

 TIP

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

CAUTION

- 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...	Edit Delete

Text-to-Speech Providers

Introduction

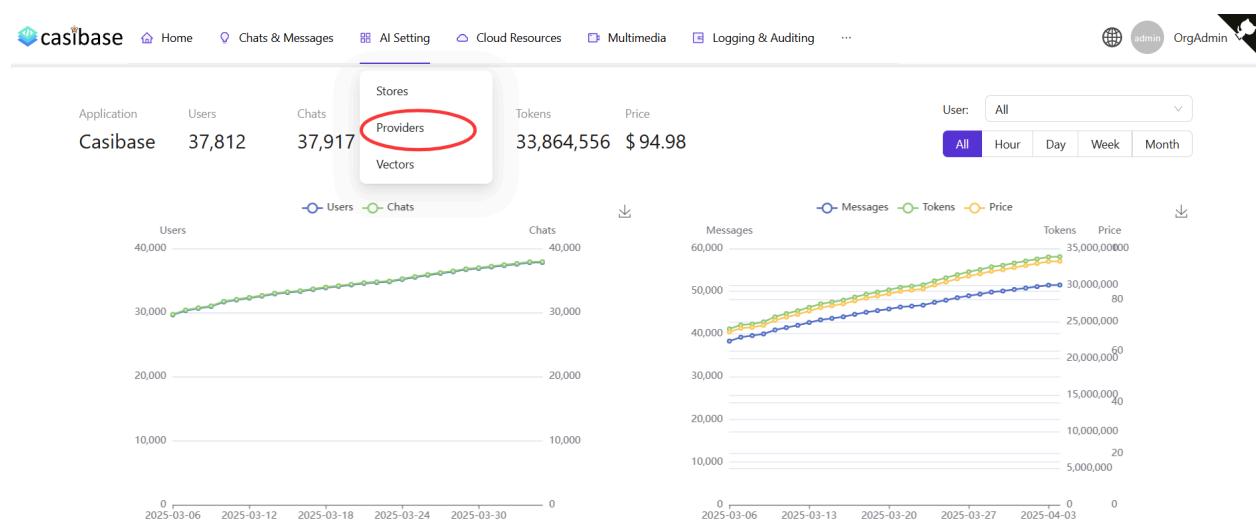
Text-to-Speech (TTS) is a technology that converts text into spoken voice output. TTS providers allow your Casibase applications to communicate with users through synthesized speech, enhancing the user experience and accessibility of your knowledge base system.

In Casibase, integrating a TTS provider enables your AI applications to verbally respond to queries, creating more interactive and engaging user experiences.

Add a New Text-to-Speech Provider

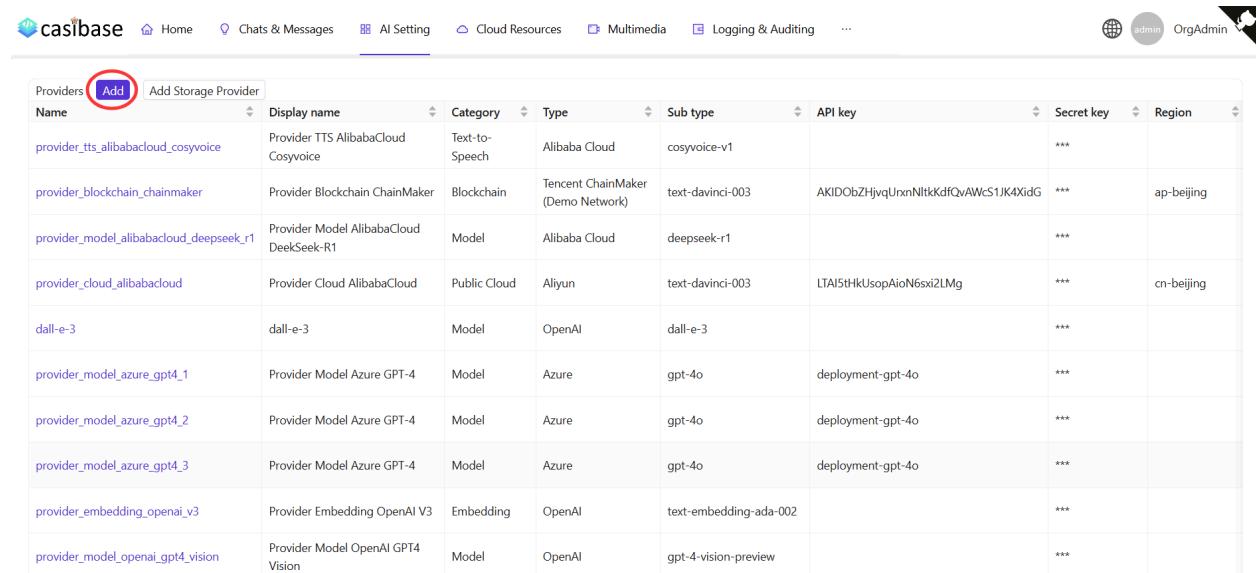
Text-to-Speech providers are used to integrate voice synthesis capabilities into Casibase. You can add them by following these steps:

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



Add a Text-to-Speech Provider

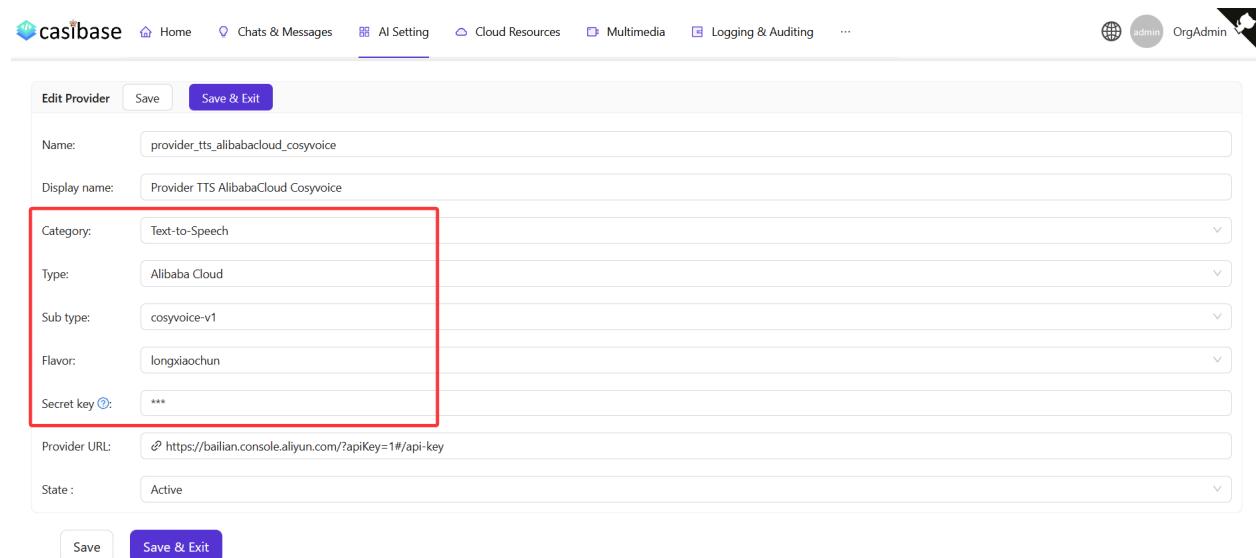
Click the **Add** button to add a Text-to-Speech provider.



Name	Display name	Category	Type	Sub type	API key	Secret key	Region
provider tts alibabacloud cosyvoice	Provider TTS AlibabaCloud Cosyvoice	Text-to-Speech	Alibaba Cloud	cosyvoice-v1		***	
provider blockchain chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjqUrxnNltkKdfQvAWcS1JK4XidG	***	ap-beijing
provider model alibabacloud deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	
provider cloud alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAioN6xi2LMg	***	cn-beijing
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	
provider model azure gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider model azure gpt4_2	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider model azure gpt4_3	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider embedding openai v3	Provider Embedding OpenAI V3	Embedding	OpenAI	text-embedding-ada-002		***	
provider model openai gpt4 vision	Provider Model OpenAI GPT4 Vision	Model	OpenAI	gpt-4-vision-preview		***	

Fill in Text-to-Speech Provider Details

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



Edit Provider Save Save & Exit

Name:	provider tts alibabacloud cosyvoice
Display name:	Provider TTS AlibabaCloud Cosyvoice
Category:	Text-to-Speech
Type:	Alibaba Cloud
Sub type:	cosyvoice-v1
Flavor:	longxiaochun
Secret key ⓘ:	***
Provider URL:	https://bailian.console.aliyun.com/?apiKey=1#api-key
State :	Active

Save Save & Exit



TIP

Casibase currently supports the following Text-to-Speech provider:

- Alibaba Cloud
 - cosyvoice-v1 (with multiple voice options)

Testing Your Text-to-Speech Provider

You can test your TTS provider by clicking the `Read it out` button. This will allow you to enter text and hear the synthesized speech output.

The screenshot shows the Casibase provider configuration interface. At the top, there's a navigation bar with links like Home, Chats & Messages, AI Setting, Cloud Resources, Multimedia, Logging & Auditing, and Admin. Below the navigation, there's a form for editing a provider. The form fields include:

- Name: provider_r7fdnn
- Display name: New Provider - r7fdnn
- Category: Text-to-Speech
- Type: Alibaba Cloud
- Sub type: cosyvoice-v1
- Flavor: 龙小淳，女，中英双语。龙小淳的嗓音如丝般柔滑，温暖中流淌着亲切与抚慰，恰似春风吹过心田。
- Secret key: ***
- Provider test: Hello, I'm casibase AI. (This field is highlighted with a red box.)
- Read it out button (located next to the provider test input field)
- Provider URL: <https://platform.openai.com/account/api-keys>
- State: Active

At the bottom of the form are two buttons: Save and Save & Exit.

This testing feature allows you to verify your TTS configuration before implementing it in your applications, ensuring the voice quality and settings meet your requirements.

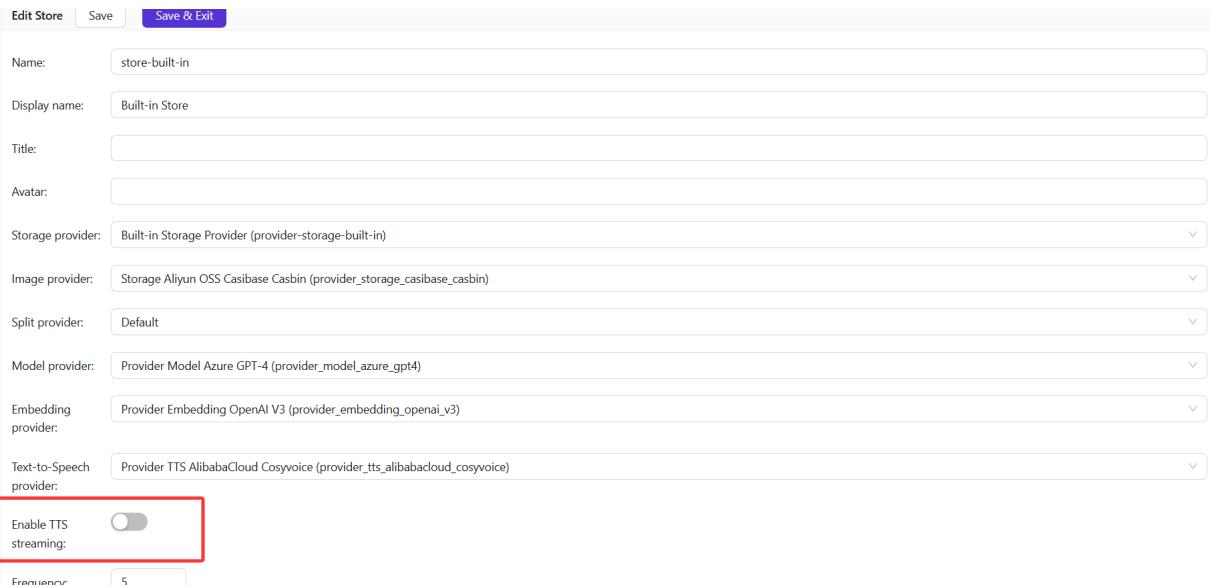
Voice Options for Alibaba Cloud

When using Alibaba Cloud's `cosyvoice-v1`, you can choose from various voice options:

- longwan
- longcheng
-

Using Text-to-Speech in Stores

After adding a Text-to-Speech provider, you can select this provider in your store settings and choose whether to enable TTS streaming.



The screenshot shows the 'Edit Store' interface with the following fields:

- Name: store-built-in
- Display name: Built-in Store
- Title: (empty)
- Avatar: (empty)
- Storage provider: Built-in Storage Provider (provider-storage-built-in)
- Image provider: Storage Aliyun OSS Casibase Casbin (provider_storage_casibase_casbin)
- Split provider: Default
- Model provider: Provider Model Azure GPT-4 (provider_model_azure_gpt4)
- Embedding provider: Provider Embedding OpenAI V3 (provider_embedding_openai_v3)
- Text-to-Speech provider: Provider TTS AlibabaCloud Cosyvoice (provider_tts_alibabacloud_cosyvoice)
- Enable TTS streaming:** A toggle switch is shown, with the red box highlighting the entire row containing this setting.
- Frontend: A dropdown menu set to 5.

Now, your store can convert text responses to speech, providing a more interactive experience for users.

Speech-to-Text Providers

Introduction

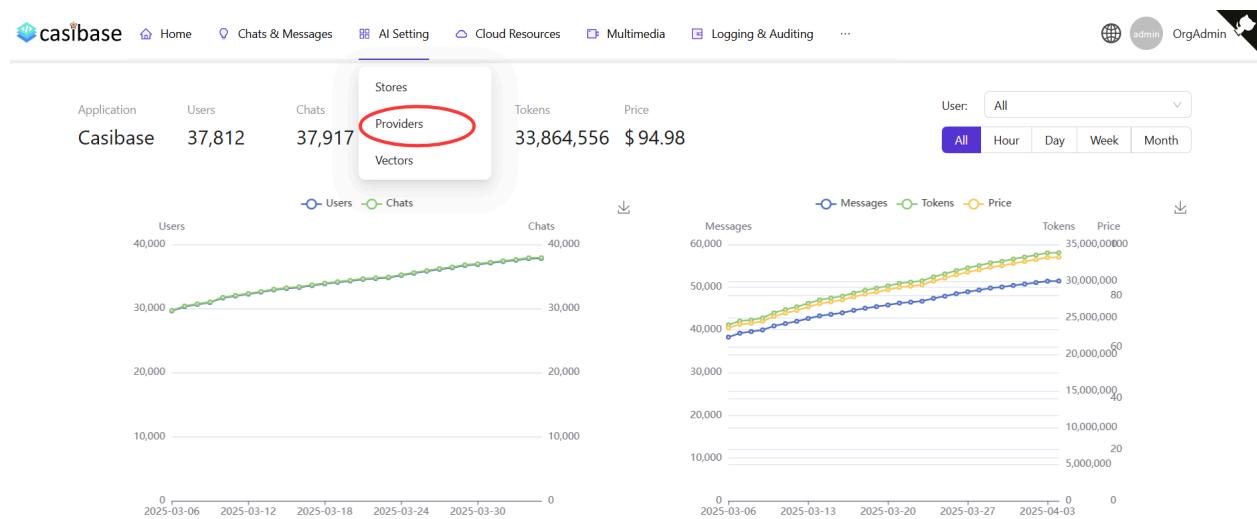
Speech-to-Text (STT) is a technology that converts spoken language into written text. STT providers allow your Casibase applications to understand and process spoken user input, enhancing the user experience and accessibility of your knowledge base system.

In Casibase, integrating an STT provider enables your AI applications to receive and process voice queries, creating more interactive and natural user interactions.

Add a New Speech-to-Text Provider

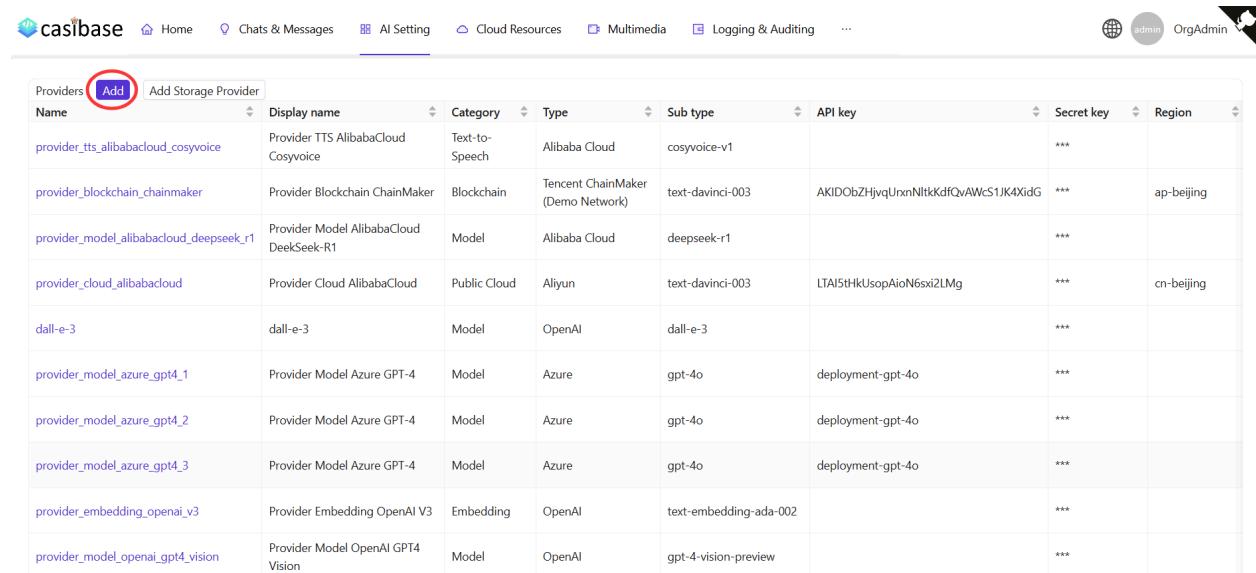
Speech-to-Text providers are used to integrate voice recognition capabilities into Casibase. You can add them by following these steps:

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



Add a Speech-to-Text Provider

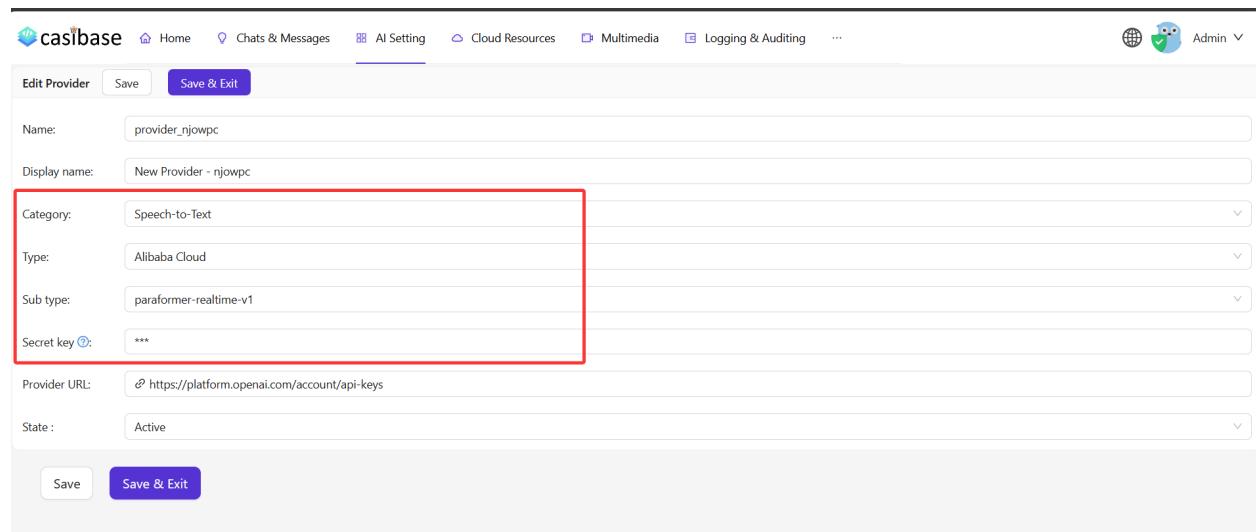
Click the **Add** button to add a Speech-to-Text provider.



Name	Display name	Category	Type	Sub type	API key	Secret key	Region
provider_tts_alibabacloud_cosyvoice	Provider TTS AlibabaCloud Cosyvoice	Text-to-Speech	Alibaba Cloud	cosyvoice-v1		***	
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjqUrxnNltkKdfQvAWcS1JK4XidG	***	ap-beijing
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAI5tHkUsopAioN6xi2LMg	***	cn-beijing
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_2	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_model_azure_gpt4_3	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	
provider_embedding_openai_v3	Provider Embedding OpenAI V3	Embedding	OpenAI	text-embedding-ada-002		***	
provider_model_openai_gpt4_vision	Provider Model OpenAI GPT4 Vision	Model	OpenAI	gpt-4-vision-preview		***	

Fill in Speech-to-Text Provider Details

Fill in the speech-to-text provider details and click the **Save & Exit** button.



Edit Provider Save Save & Exit

Name:	provider_njowpc
Display name:	New Provider - njowpc
Category:	Speech-to-Text
Type:	Alibaba Cloud
Sub type:	parformer-realtime-v1
Secret key <small>(?)</small> :	***
Provider URL:	https://platform.openai.com/account/api-keys
State :	Active

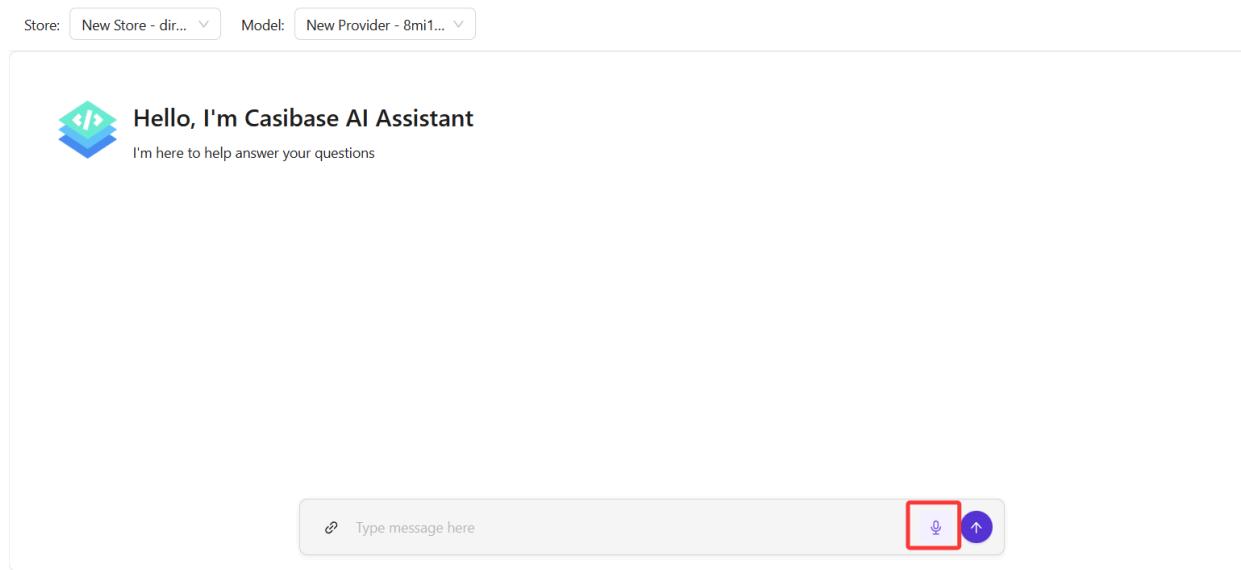
Save Save & Exit

Using Voice Recognition

When you click the voice recognition button in your Casibase application, the following process occurs:

1. The browser will request permission to access your microphone
2. Once granted, the system will begin listening and automatically convert your speech to text
3. After you finish speaking, the recognized text will be automatically sent as a message

This feature enables hands-free interaction with your Casibase applications, making them more accessible and convenient to use.



Casibase currently supports the following Speech-to-Text provider:

- [Alibaba Cloud](#)
 - paraformer-realtime-v1

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.

The screenshot shows the Casbin web application's 'Edit Store' page. At the top, there are navigation links: Home, Chat, Stores (which is underlined), Providers, Vectors, Chats, Messages, Tasks, Resources (with a dropdown arrow), Permissions (with a dropdown arrow), and Logs (with a dropdown arrow). On the right side, there are icons for a globe, a shield, and a user profile labeled 'Jimmy' with a dropdown arrow. The main form has fields for Name (store_v6c22m), Display name (New Store - v6c22m), Storage provider (empty), Model provider (empty), Embedding provider (empty), and File tree (empty). A purple 'Save' button is at the top left of the form, and a 'Go to Store' button is at the bottom right. A red circle with a white 'X' is centered above the storage provider field, with the text 'storage provider is empty' written below it.

Select the storage provider, model provider, embedding provider, text-to-speech provider and speech-to-text 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:

Stores Add

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

< 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.

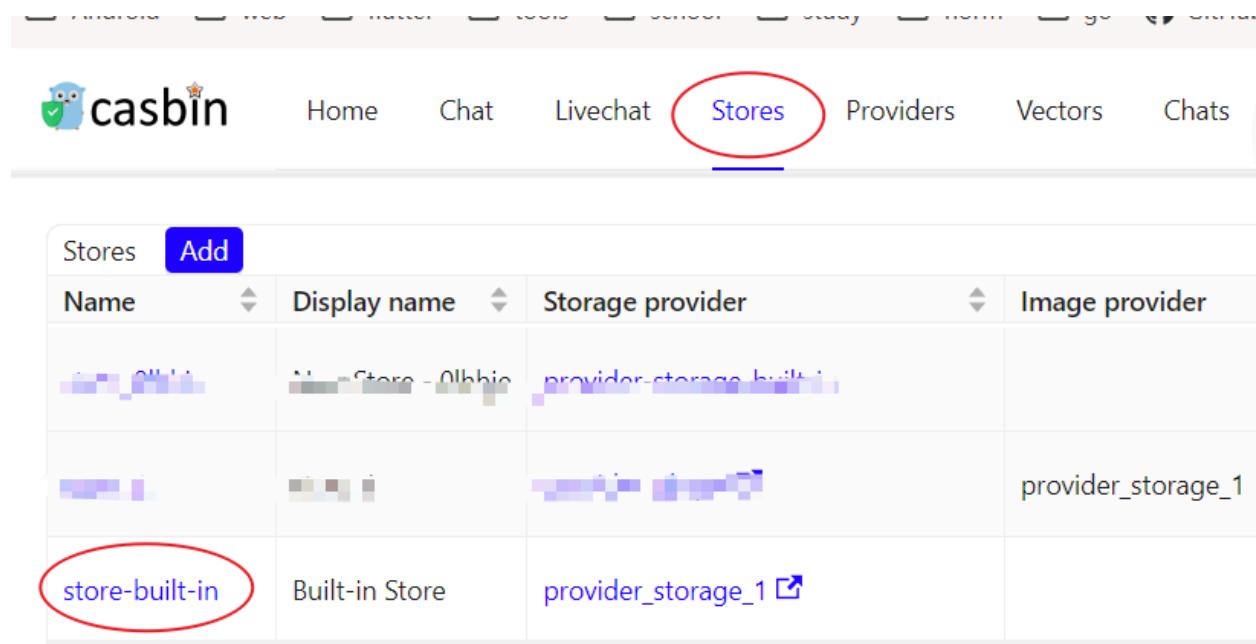
2. Support Multi-store

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

Enable Multi-store

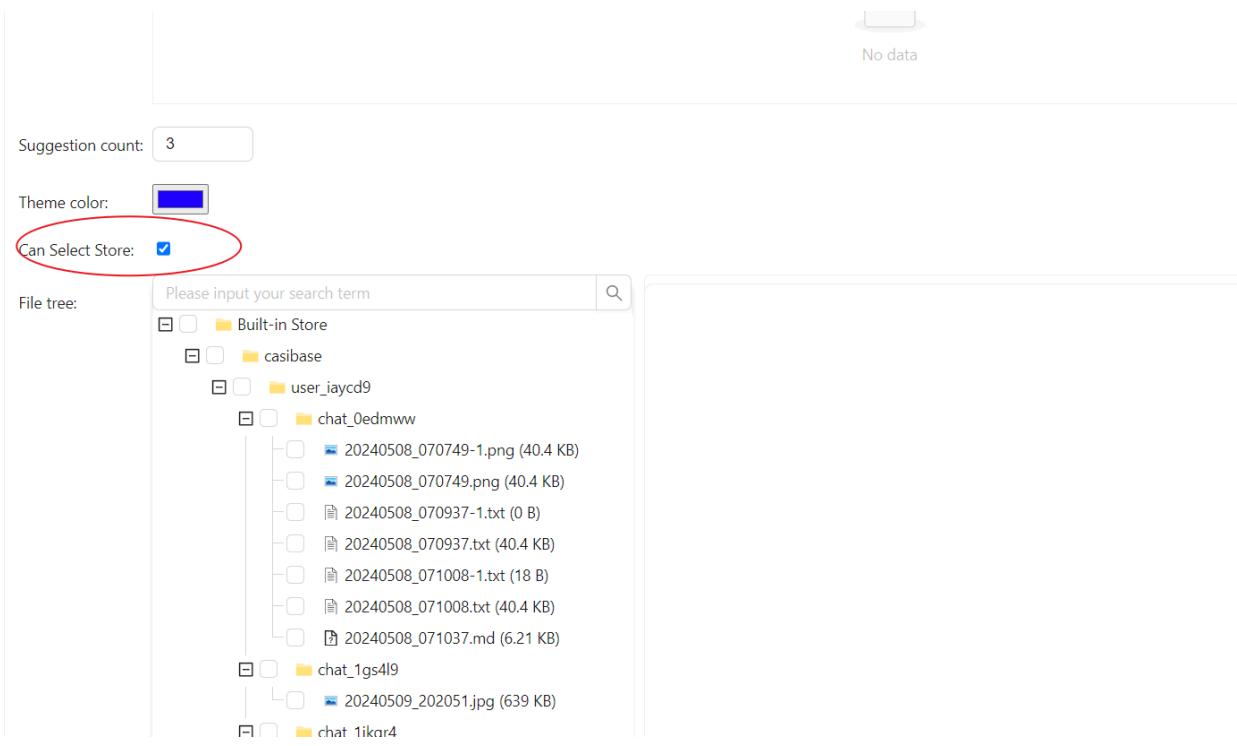
First, you should enable multi-store mode in the built-in store.

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.



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

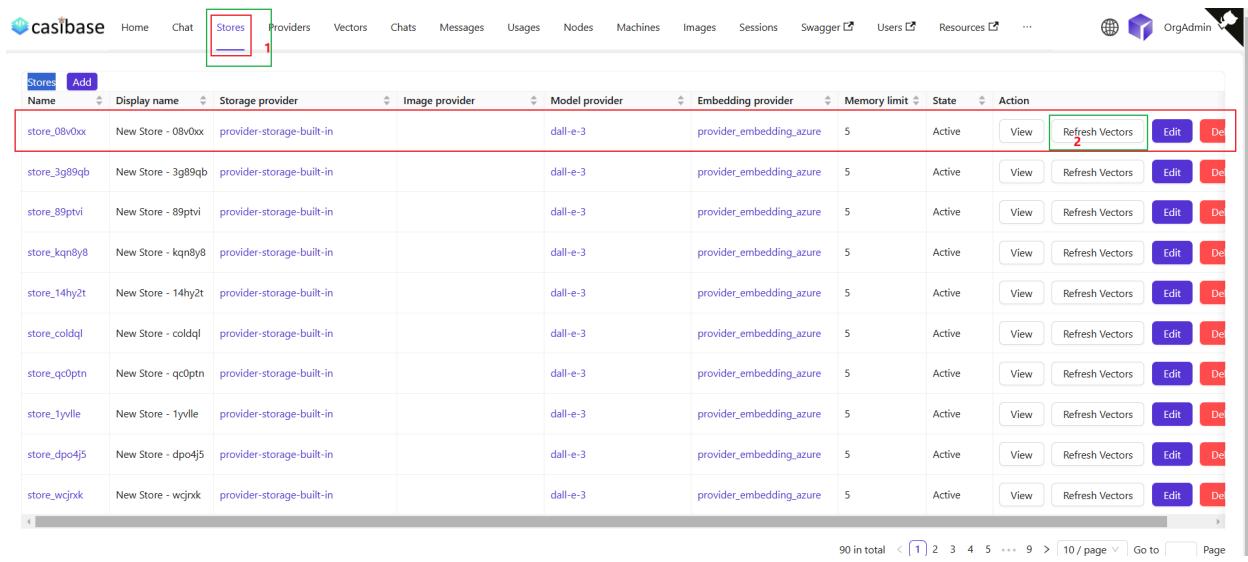
The generation of vectors needs to be used in conjunction with stores, which means that you need to configure stores before you can understand vectors.

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.

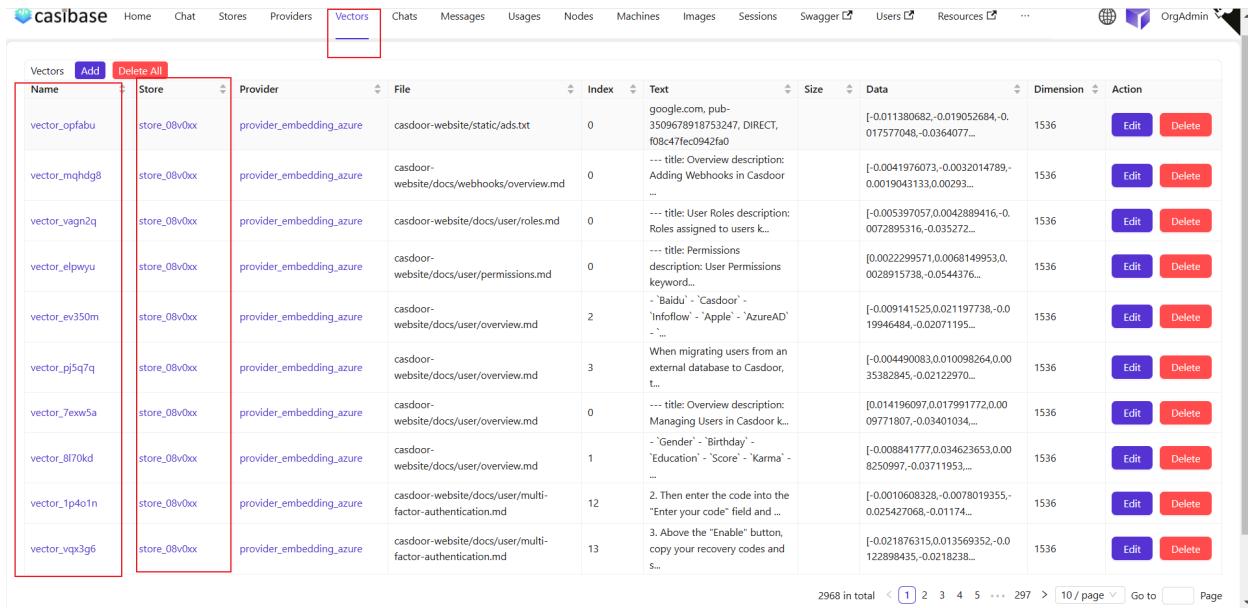


Name	Display name	Storage provider	Image provider	Model provider	Embedding provider	Memory limit	State	Action
store_08v0xx	New Store - 08v0xx	provider-storage-built-in		dall-e-3	provider_embedding_azure	5	Active	<button>View</button> <button>Refresh Vectors</button> <button>Edit</button> <button>Delete</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.

TextSplitters

Overview

Text Splitters Overview

Overview

Text Splitters are a crucial component in building large language model (LLM) applications. Their primary role is to break long texts into multiple shorter segments, which facilitates subsequent tasks such as text embeddings, retrieval-augmented generation (RAG), and question-answering systems.

In LLMs, text splitting is performed for several main reasons:

- Optimizing Efficiency and Accuracy: By decomposing large blocks of text into smaller segments, the relevance and accuracy of the embeddings produced by the LLM can be optimized. Chunking helps ensure that the embedded content contains minimal noise while retaining semantic relevance. For instance, in semantic search, when indexing a document corpus, each document contains valuable information on specific topics. Applying an effective chunking strategy ensures that search results accurately capture the essence of a user's query.
- Limiting the Context Window Size: When using models like GPT-4, there is a limit to the number of tokens that can be processed. For example, GPT-4 has a context window size limit of 32K tokens. While this limit is generally not an issue, it is important to consider chunk size from the beginning. If the text chunks are too large, information might be lost or not all content may be embedded in the context, which can affect the model's performance and output.
- Handling Long Documents: While embedding vectors for long documents can capture the overall context, they might overlook important details pertaining to specific topics, leading to outputs that are either imprecise or incomplete. Chunking enables better control over the extraction and embedding of information, thereby reducing the risk of information loss.

Casibase currently offers multiple splitting methods, allowing users to apply

different processing strategies for various text scenarios.

Default Text Splitter

The default text splitter is designed to efficiently segment text based on token count and textual structure. Its splitting strategy includes:

- Line Reading and Paragraph Recognition: The text is read line by line, with consecutive blank lines used to accurately determine paragraph breaks. It also sensitively identifies natural breakpoints through markers, ensuring logical and precise text segmentation.
- Special Handling for Code Blocks: Code blocks enclosed by ``` symbols are treated separately. The number of lines within a code block determines whether it can stand alone as a segment. This mechanism preserves the integrity of code blocks while effectively preventing any single text segment from exceeding the token limit.
- Maintaining Sentence Integrity: Throughout the splitting process, strict adherence to sentence integrity is maintained, ensuring that sentences are never divided. This feature guarantees that each text segment contains a complete unit of information. Regardless of the complexity of the text, segmentation is accurately performed at sentence boundaries, effectively avoiding ambiguity and information loss due to broken sentences.

Q&A Splitter

The Q&A splitter focuses on the precise segmentation of question-and-answer formatted texts and offers the following core advantages:

- Accurate Splitting of Q&A Units: It uses a line-by-line scanning mechanism to intelligently identify the structure of Q&A texts. By determining whether each line begins with "Q:" or "A:", it precisely locates the boundaries between

questions and answers, ensuring that each Q&A pair is completely segmented. This guarantees the independence and completeness of each Q&A unit, providing clean data for subsequent Q&A processing and analysis.

- Clear and Logical Implementation: The code is simple and intuitive, making it easy to understand and maintain. By managing the state of the current Q&A pair and a flag indicating whether an answer is being collected, the process of text segmentation is clearly controlled, ensuring the correct pairing of each Q&A unit.

Chats



Overview

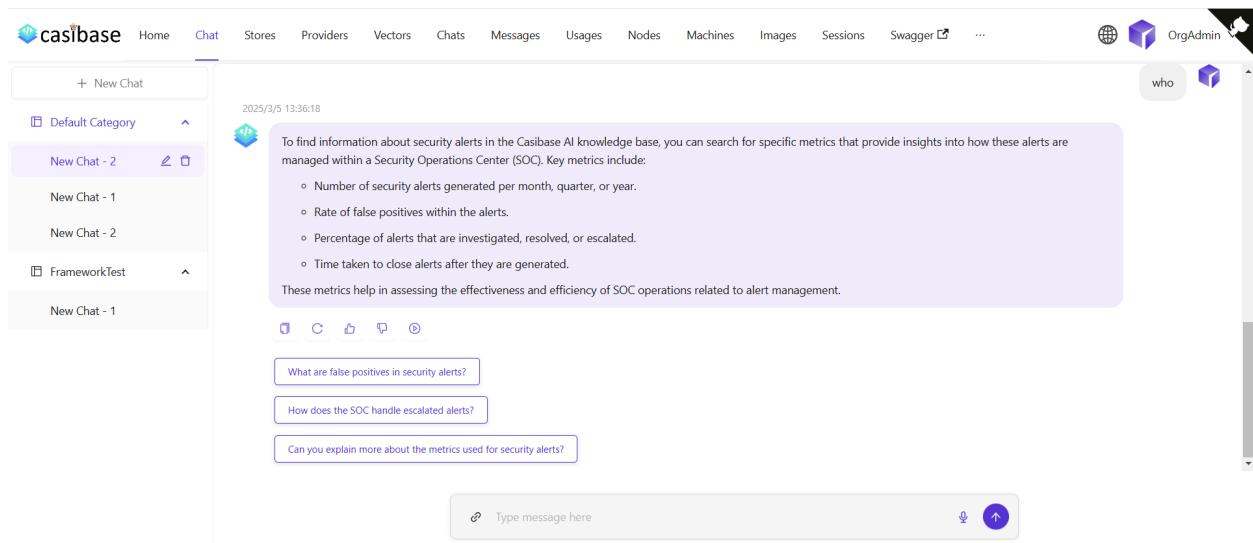
Chats Overview

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:



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 中国 山东 济南 Edge 133.0.0 Windows 10	1	1006	\$0.002705		<button>Edit</button> <button>Delete</button>
chat_v67r4z	2025-03-05 13:36:48	u-649ef853	101.129.8.189 中国 台湾 N/A Chrome 133.0.0 Mac OS X 10.15.7	1	1004	\$0.00269		<button>Edit</button> <button>Delete</button>
chat_252ftr	2025-03-05 13:36:18	admin	:1	12	7107	\$0.0203981		<button>Edit</button> <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.

Messages

Overview

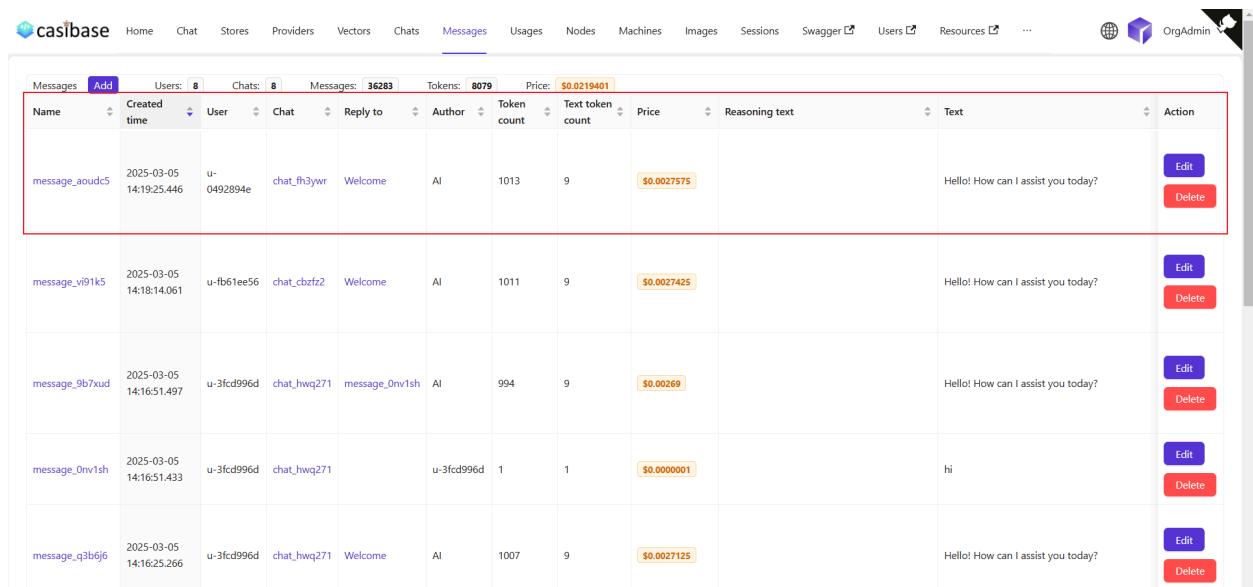
Messages Overview

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.



Name	Created time	User	Chat	Reply to	Author	Token count	Text token count	Price	Reasoning text	Text	Action
message_aoudc5	2025-03-05 14:19:25.446	u-0492894e	chat_fh3yw	Welcome	AI	1013	9	\$0.0027575		Hello! How can I assist you today?	<button>Edit</button> <button>Delete</button>
message_v91k5	2025-03-05 14:18:14.061	u-fb61ee56	chat_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-3fc996d	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-3fc996d	chat_hwq271		u-3fc996d	1	1	\$0.0000001		hi	<button>Edit</button> <button>Delete</button>
message_q3b6j6	2025-03-05 14:16:25.266	u-3fc996d	chat_hwq271	Welcome	AI	1007	9	\$0.0027125		Hello! How can I assist you today?	<button>Edit</button> <button>Delete</button>

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

The screenshot shows the Casibase web interface for managing nodes. At the top, there's a navigation bar with icons for Home, Usages, and User. Below it is a search bar and a 'Nodes' table.

Nodes Table Headers:

- Organization
- Name
- Created time
- Description
- Protocol
- IP
- Port
- Username
- Language
- Auto query
- Is perm
- Action

Nodes Table Data (5 rows):

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

At the bottom right of the table, there are pagination controls: '5 in total' < [1] > [10 / page].

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

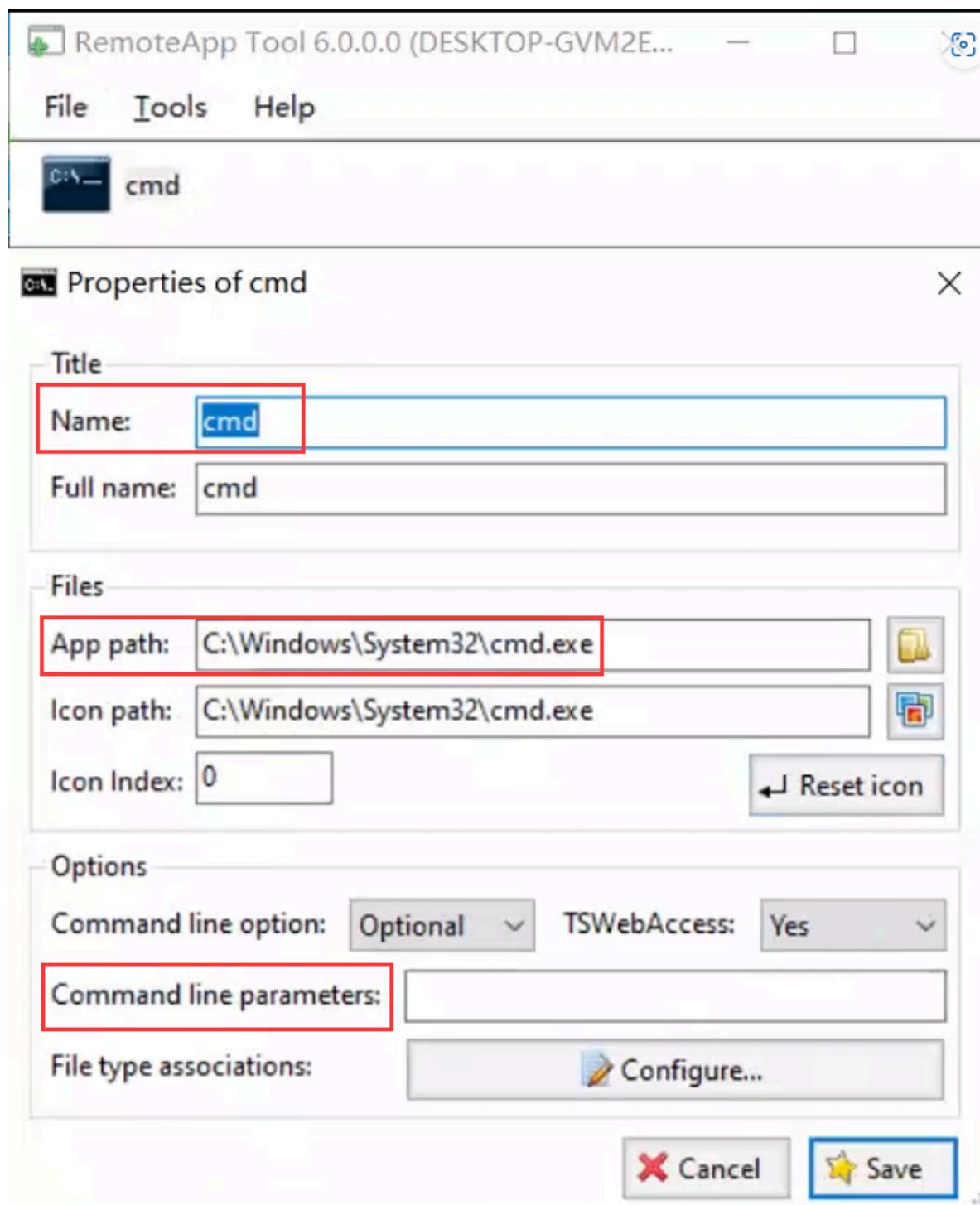
3. Connect to your node by clicking the **connect** button

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

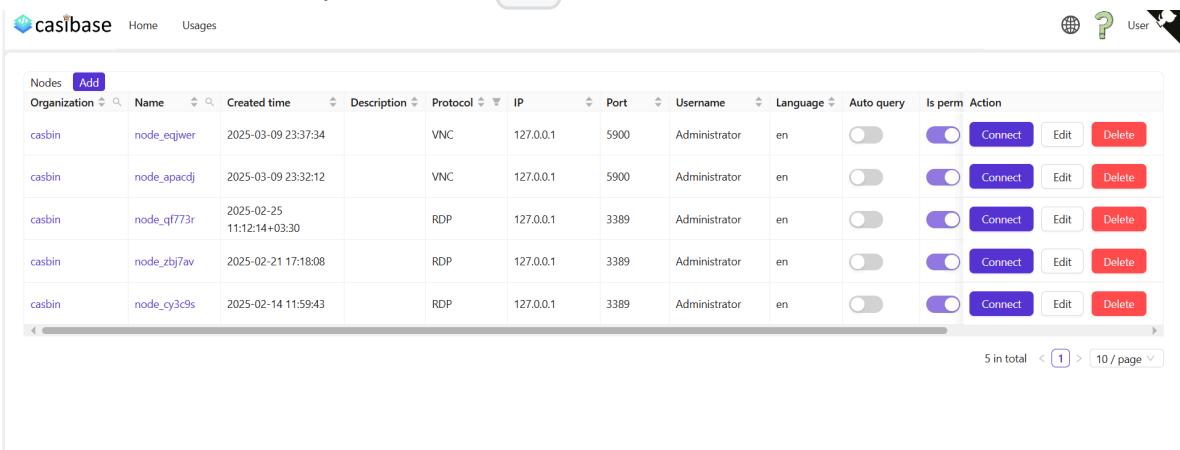
VCN Connect

VCN 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



Nodes	Add										
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"/>	Connect
casbin	node_apacdj	2025-03-09 23:32:12		VNC	127.0.0.1	5900	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Connect
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"/>	Connect
casbin	node_zbj7av	2025-02-21 17:18:08		RDP	127.0.0.1	3389	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Connect
casbin	node_cy3c9s	2025-02-14 11:59:43		RDP	127.0.0.1	3389	Administrator	en	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Connect

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

ChainMaker

Overview

ChainMaker Overview

Chainmaker Configuration

In this chapter, you will learn how to configure and use ChainMaker, including setting up storage providers and other operations, to help you quickly get started and app...

Overview

ChainMaker is a high-performance, enterprise-grade blockchain platform developed under the leadership of China. It is designed to provide secure, controllable, and scalable blockchain infrastructure for industries such as finance, government, and supply chain. ChainMaker supports multiple consensus mechanisms, smart contracts, privacy protection, and other features, meeting the needs of large-scale commercial applications. Its open-source, modular architecture allows developers to flexibly customize and extend functionalities according to actual business scenarios.

When configuring a ChainMaker provider in Casibase, you need to fill in several key fields. Each field has a specific meaning and is required for the correct integration with the ChainMaker blockchain. The following list explains the purpose of each field:

- `Name`: The unique identifier for this blockchain provider.
- `Display name`: The display name shown in the UI for this provider.
- `Category`: The type of service, e.g., Blockchain.
- `Type`: The blockchain type, here it should be ChainMaker.
- `orgId`: The organization ID in the ChainMaker network.
- `ChainId`: The chain ID of the ChainMaker blockchain.
- `AuthType`: The account mode. Currently, only `permissionedwithcert` is supported.
- `User key`: The user's private key for authentication in the ChainMaker server.
- `User cert`: The user's certificate for authentication in the ChainMaker server.
- `Sign key`: The user's private key for signing transactions in the ChainMaker server.
- `Sign cert`: The user's certificate for signing transactions in the ChainMaker

server.

- `Node address`: The address of the ChainMaker node to connect to.
- `Contract name`: The name of the smart contract to interact with.
- `Invoke method`: The method name to invoke on the contract.
- `Browser URL`: The URL for viewing the blockchain in a browser.
- `Chainmaker endpoint`: The API endpoint for the ChainMaker service. See:
<https://github.com/casibase/chainmaker-server>

Please make sure to fill in each field accurately according to your ChainMaker deployment information. This will ensure that Casibase can successfully connect and interact with your ChainMaker blockchain.

Chainmaker Configuration

In this chapter, you will learn how to configure and use ChainMaker, including setting up storage providers and other operations, to help you quickly get started and apply the features of the ChainMaker platform.

Next, we will use "Deploying ChainMaker via the Management Console" as an example for our introduction. If you have not yet deployed ChainMaker, please follow the [ChainMaker documentation](#) for deployment.

Configure Chain Information

1.1 chainId, orgId and authType configuration

The screenshot shows the ChainMaker Management Console interface. The left sidebar includes sections for Chain account management, Blockchain management (which is selected), Platform account management, Log monitoring, Ecological tools, and Feedback. The main content area displays a 'Blockchain Management/Blockchain Overview' dashboard. Key metrics shown include 23 cumulative transactions, 22 blocks, 1 on-chain node, and 1 organization. Below this is a 'Blockchain information' panel. A red box highlights the 'authType' field, which is set to 'permissionedWithCert'. Other fields in the panel include:

Blockchain ID	CasibaseChainMaker	ChainId
The name of the blockchain	CasibaseChainMaker	
Blockchain version	v2.3.5(2030500)	
Configure the version	0	
Account Mode	permissionedWithCert	authType
Consensus strategy	ONLY	
The maximum size of a block	100 transactions	
How long the transaction expires	600s	
Block generation interval	10ms	

Blockchain management

- Blockchain overview
- Contract management
- On-chain management
- Vote management
- Organizational information**
- Node information
- Blockchain Explorer

Blockchain management/organization information

Organization ID	The name of the organization	Creation time	Number of nodes
TestCMorg1 orgId	cmtestorg1	2025-06-10 10:18:33	1

Please enter the organization name to search Q

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1.2 Contract name and Invoke method configuration

Blockchain management

- Blockchain overview
- Contract management**
- On-chain management
- Vote management
- Organizational Information
- Node information
- Blockchain Explorer

Blockchain management/contract management

The name of the contract	Current version	Affiliation	Created by	Updated	Voting status	On-chain status	operate
casicbase Contract name	1.0.0	TestCMorg1	cmtestorg1	2025-06-10 13:21:08	normal	normal	freeze logout upgrade edit

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Click the edit button in the "operate" column:

Blockchain management

- Blockchain overview
- Contract management**
- On-chain management
- Vote management
- Organizational Information
- Node information
- Blockchain Explorer

Edit the contract

The name of the contract casibase

state The contract is initialized and deployed

Current version 1.0.0

The type of virtual machine WASMER

Contract Invocation Method (Optional)

save	Invoke method	invoke	file_hash,file_name,time	increase
find_by_file_hash	Inquire	▼	file_hash	Delete

Are you sure Cancel

1.3 key, certificate, and nodeAddr configuration

The screenshot shows the 'Blockchain Management/Blockchain Overview' page. On the left, a sidebar lists navigation options: Blockchain management, Blockchain overview, Contract management, On-chain management, Vote management, Organizational Information, Node information, and Blockchain Explorer. The 'Node information' option is highlighted with a red box. The main content area displays 'Key metrics' with values: Cumulative number of transactions (23), The latest block height (22), On-chain nodes (1 piece), and Number of organizations on the chain (1 piece). Below this is a 'Blockchain information' section with various parameters like Blockchain ID (CasibaseChainMaker), Version (v2.3.5(2030500)), and Account Mode (permissionedWithCert). A prominent blue button labeled 'Download the chain configuration' is located at the top right of this section, also highlighted with a red box.

Click the "download the chain configuration" button and extract the archive:

1.3.1 You can find the node_addr configuration in ~\CasibaseChainMaker\sdk_configs\sdk_config.yml.

Alternatively, you can check nodeAddr elsewhere, but note that the displayed port is the p2p port. The one we use should be the rpc port, which is the p2p port + 1000 by default.

The screenshot shows the 'Blockchain management/node information' page. The sidebar has the same navigation options as the previous screen, with 'Node information' highlighted. The main area contains a table with columns: Node name, Affiliation, Node type, Node ID, Node address, Ledger synchronization type, and operate. One row in the table is highlighted with a red box, focusing on the 'Node address' field which shows 'nodeAddr' and 'but port is error'. A note at the bottom of the table area states: 'The correct port is the current value plus 1000; i.e. 12301'.

1.3.2 You can find the corresponding user certificate and key in
~\CasibaseChainMaker\ sdk_configs\crypto-config\TestCMorg1\user\cmtestuser1.
Fill in the provider fields accordingly.

cmtestuser1.sign.crt	2025/6/12 23:49	安全证书	1 K
cmtestuser1.sign.key	2025/6/12 23:49	KEY 文件	1 K
cmtestuser1.tls.crt	2025/6/12 23:49	安全证书	1 K
cmtestuser1.tls.key	2025/6/12 23:49	KEY 文件	1 K

1.4 Browser URL and ChainMaker endpoint

The Browser URL refers to the URL of the ChainMaker management console, which allows for quick access from Casibase in the future:

<https://manage.casvisor.com/chains/CasibaseChainMaker/nodes?chainMode=permissionedWithCert> Browser URL

The screenshot shows a table of records with columns: Organization, ID, Name, Client IP, Created time, Sessions, Action, Block, and Action. A red box highlights the 'Sessions' column for the first row, which shows 'Records (1)' and 'signin'. Another red box highlights the 'Action' column for the second row, which shows 'Commit', 'View', and 'Delete'. A large red arrow points from a text box containing the following instructions to the 'Commit' button in the second row's actions column:

If you have already committed, then the block will appear here, click on it to jump to the admin console.

The ChainMaker endpoint refers to the IP and port of the ChainMaker server that Casibase needs to connect to, for example: 127.0.0.1:13900