



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

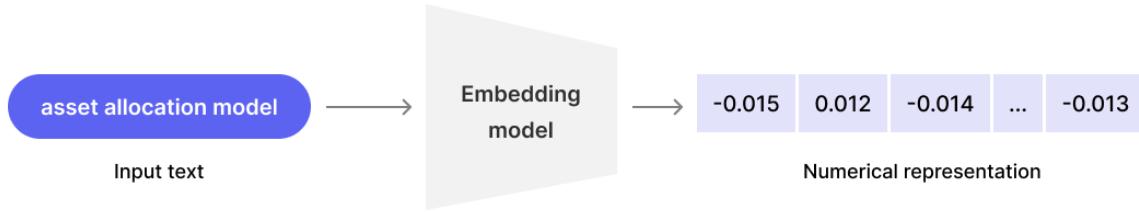
1. With a separate front-end and back-end architecture developed in Golang, Casibase supports high concurrency, provides web-based management UI and supports multiple languages (Chinese, English).
2. Casibase supports third-party application login, such as GitHub, Google, QQ, WeChat, etc., and supports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

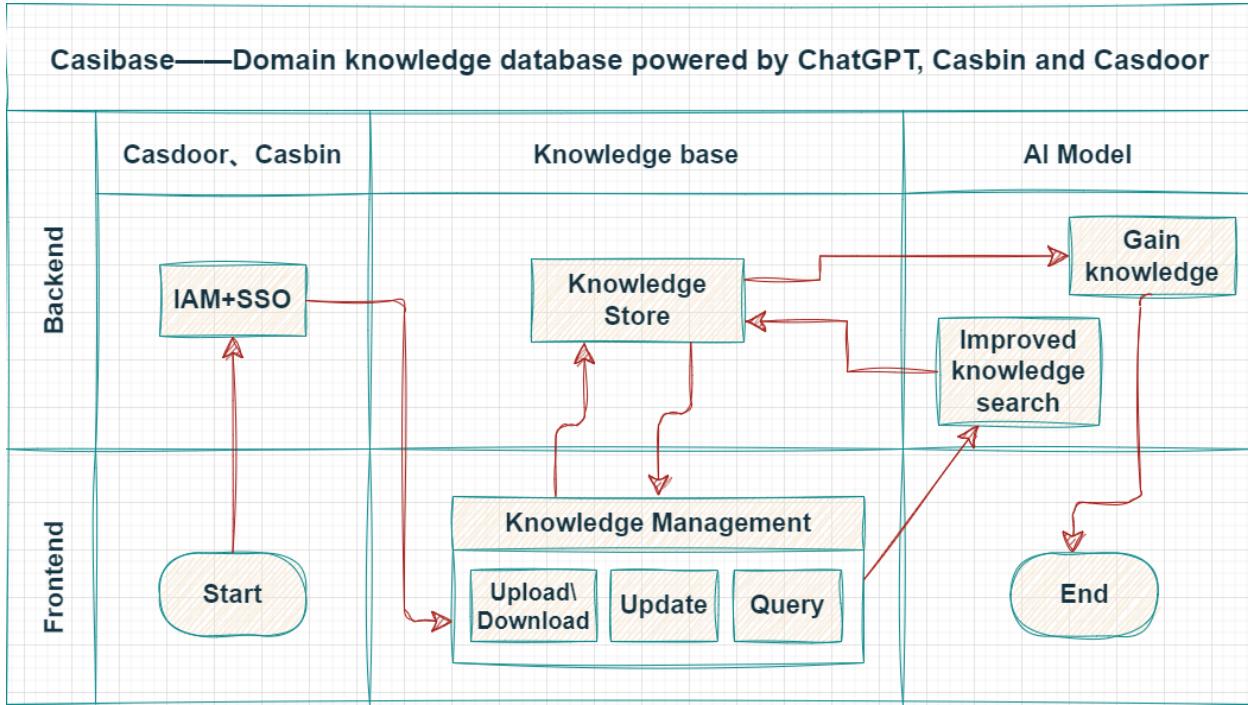
Global admin login:

- 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:

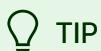
`Provider`, `Storage`, `Chat` and `Vector`.

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.

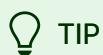
The Chat class definition is shown as follows:

```
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.

- Backend (conf/app.conf)

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

- Frontend (web/src/Conf.js)

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

Run

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

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  
yarn install  
yarn build
```

Nginx



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

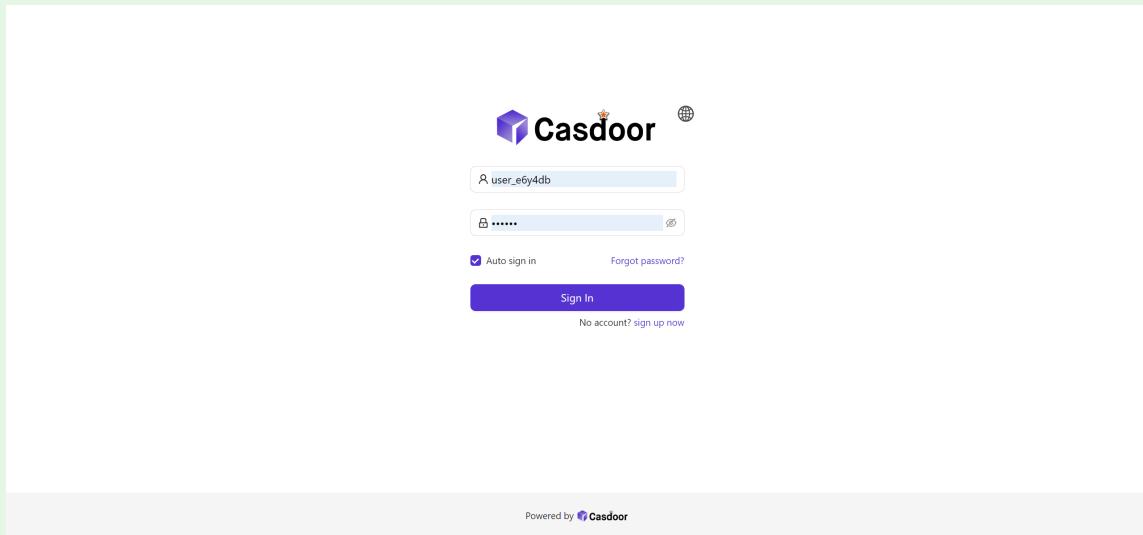
```
location / {  
    *** your configuration ***  
    proxy_set_header Upgrade $http_upgrade;  
    proxy_set_header Connection "upgrade";  
}
```

Because Casibase uses websocket to communicate with guacd.

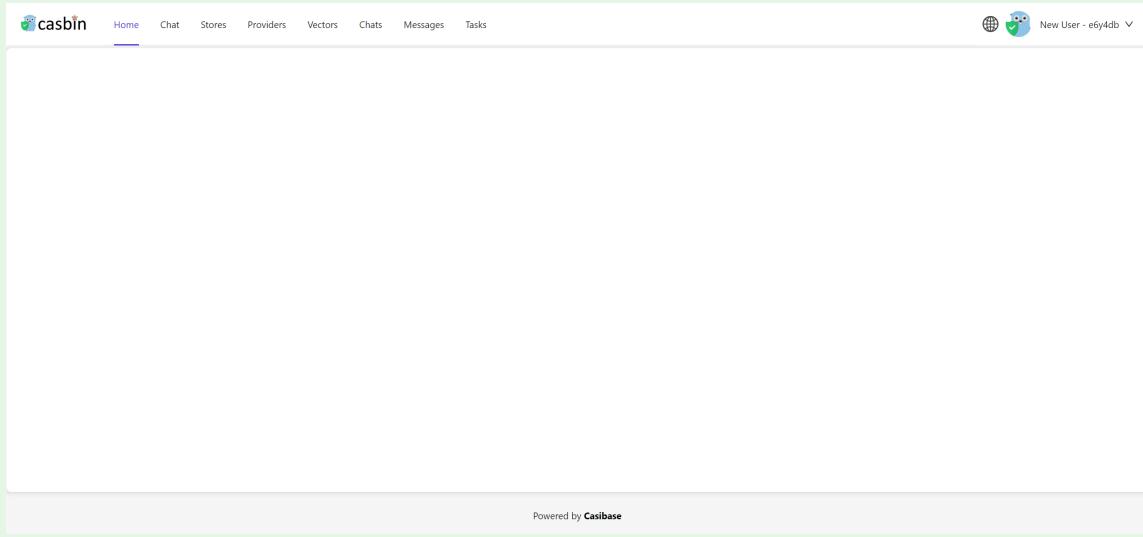
Preview

Visit: <http://localhost:13001> in your browser. Login into Casibase

dashboard with the user account you have just registered in Casdoor:



Then you will go to the home page of Casibase:



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

:::

(Optional) Try with Docker

Requirements

Hardware

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

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

OS

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

Docker

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

- [Docker](#)

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

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

Get the image

We have provided two DockerHub images:

Name	Description	Suggestion
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 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.

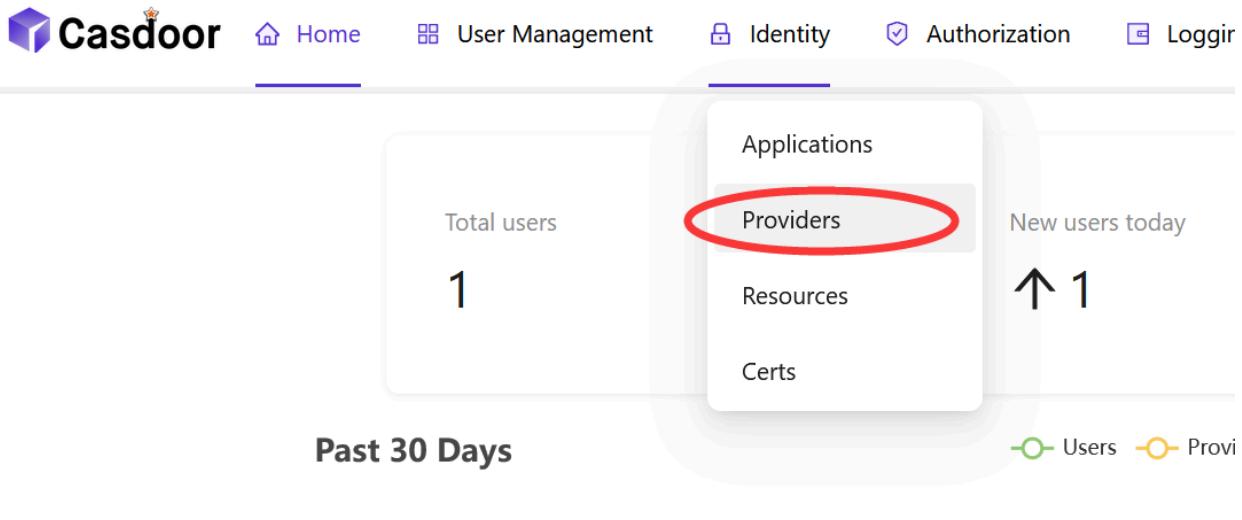
If you're new to integrating storage providers, don't worry. We've broken down the process into simple steps that anyone can follow.

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's a header with "Providers" and a blue "Add" button, which is circled in red. Below the header is a table with the following columns: Name, Organization, Created time, and Delete. One row is visible in the table.

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

Step 2.2: Fill in the storage provider information

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

New Provider

Save

Save & Exit

Cancel

Name 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

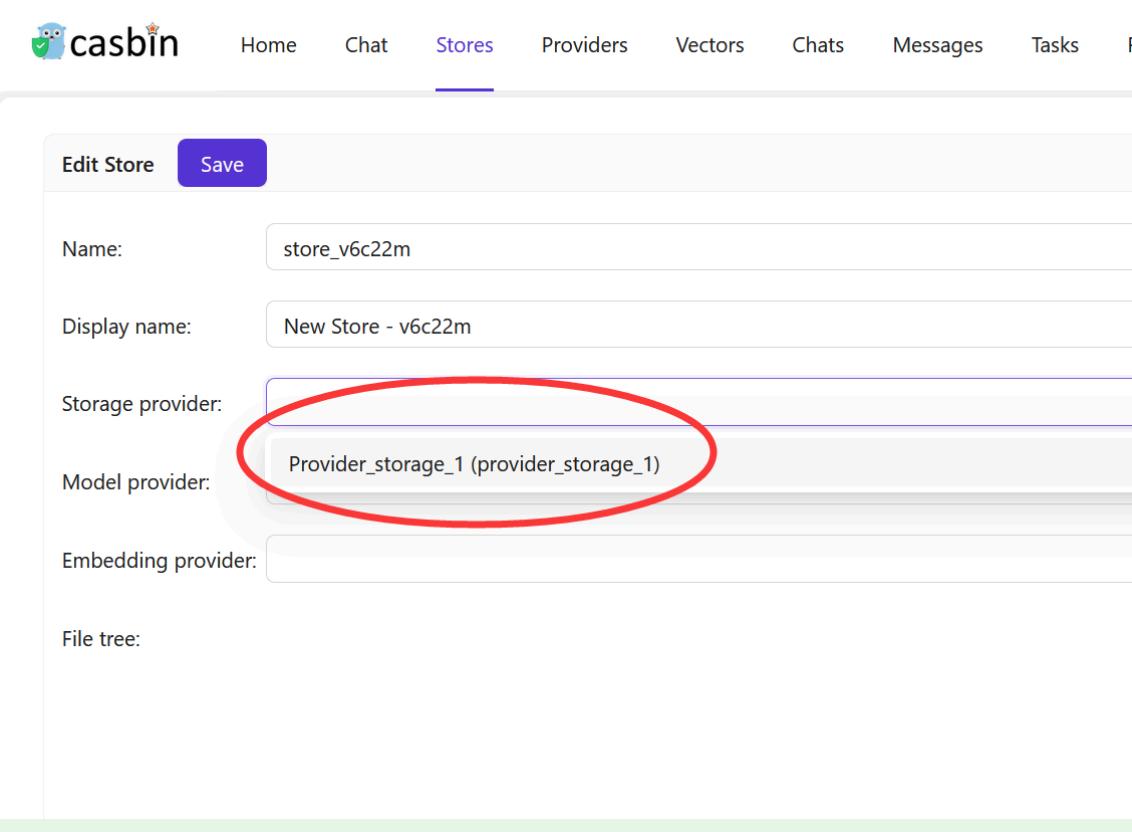
After adding the storage provider, you can view the storage provider information.

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)" highlighted by a red oval.
- Model provider: An empty input field.
- Embedding provider: An empty input field.
- File tree: An empty input field.

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

Store Example

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

Name:

my_store

Display name:

My_Store

Storage provider:

Provider_storage_1 (provider_storage_1)

Model provider:

Embedding provider:

File tree:

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

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

Please input your search term

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

+ New Chat

AI

Type message here

Now you can manage your data in Casibase.

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

Add an AI Model Provider

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

Introduction

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

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

Step 1: Deploy Casdoor and Casibase

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

Step 2: Add a New Model Provider

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

Click the `Providers` button on the home page.

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

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjqUrxNltkKdfQvAWcS1JK4XidG	***	https://console.cloud.tencent.com/tbaas/chainmaker/demo/basic
provider_model_alibabacloud_deeplearning_r1	Provider Model AlibabaCloud DeeSeek-R1	Model	Alibaba Cloud	deeplearning-r1		***	https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0d2
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAl5tHkUsopAioN6xx2LMg	***	https://ecs.console.aliyun.com/server/i-2zed8cgb9o0wwmc2ku6/detail?regionId=c
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	https://platform.openai.com/account/api-keys
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	https://openaicasdoorsweden.openai.azure.com/

Step 2.1: Add a Model Provider

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

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

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

Step 2.2: Fill in Model Provider Details

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

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

Name:

provider_openai_model

Display name:

OpenAI model

Category:

Model

Type:

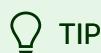
OpenAI

Sub type:

text-davinci-003

Secret key:

Provider URL:

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

Casibase supports many model providers, including:

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

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

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 (selected)
- Sub type: OpenAI (highlighted with a red circle)
- Secret key: (empty)
- Provider URL: <https://platform.openai.com/account/api-keys>

A red circle highlights the 'OpenAI' option in the 'Sub type' dropdown menu.

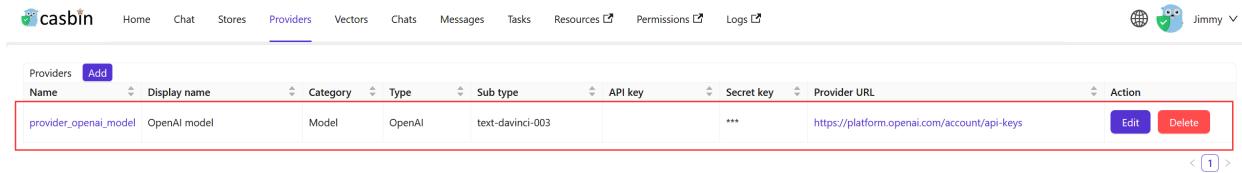
⚠ CAUTION

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:

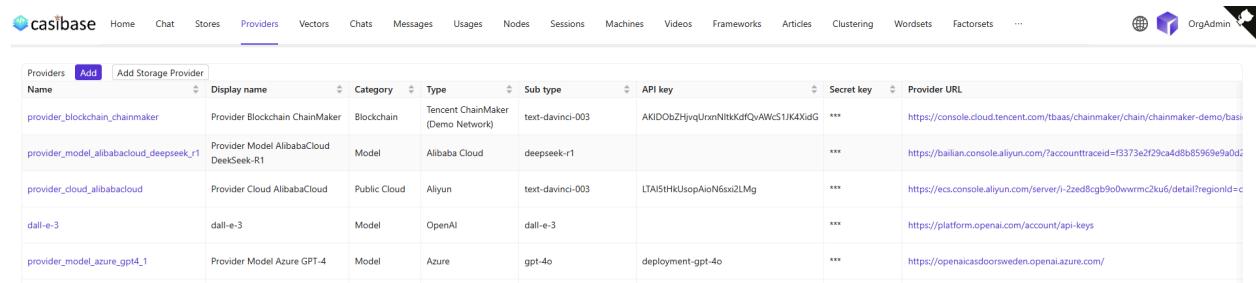
Step 1: Deploy Casdoor and Casibase

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.

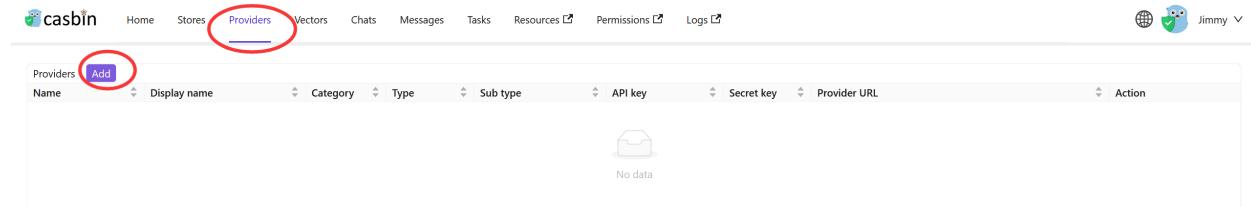


The screenshot shows the casbase home page with the 'Providers' tab selected. The interface includes a navigation bar with Home, Chat, Stores, Providers, Vectors, Chats, Messages, Usages, Nodes, Sessions, Machines, Videos, Frameworks, Articles, Clustering, Wordsets, Factorsets, and a three-dot menu. On the right, there are icons for OrgAdmin and a user profile. The main content area displays a table titled 'Providers' with the following data:

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjvqUnxnNtkKdfQvAWcS1JK4XidG	***	https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	https://bailian.console.aliyun.com/?accounttraceid=f3373e2f29ca4d8b85969e9a0d2
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAi5tHKUJspAloN6xx2LMg	***	https://ecs.console.aliyun.com/server/-/Zzed8cgB9obwwrmC2kuU/detail?regionId=cn-hangzhou
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	https://platform.openai.com/account/api-keys
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	https://openai.azure.com/

Step 2.1: Add an Embedding Provider

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



The screenshot shows the casbin home page with the 'Providers' tab selected. The interface includes a navigation bar with Home, Stores, Providers, Vectors, Chats, Messages, Tasks, Resources, Permissions, and Logs. On the right, there are icons for OrgAdmin and a user profile named Jimmy. The main content area displays a table titled 'Providers' with the following data:

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

Step 2.2: Fill in Embedding Provider Details

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

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

Name:

embedding_openai_adasimilarity

Display name:

Embedding_OpenAI_AdaSimilarity

Category:

Embedding

Type:

OpenAI

Sub type:

AdaSimilarity

Secret key:

Provider URL:

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

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 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
my_store	My_Store	provider_storage

Step 2: Fill in Store Details

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

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

casbin

Home Chat Stores Providers Vectors Chats Messages Tasks Resources ↗ P

Edit Store Save

Name: my_store

Display name: My_Store

Storage provider: Provider_storage_1 (provider_storage_1)

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

Embedding provider:

File tree:

```

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

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

casbin

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

Stores	Add	Name	Display name	Storage provider	Model provider	Embedding provider	Action
my_store		My_Store	provider_storage_1	model_openai_text_davinci_003	embedding_openai_adasimilarity	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.

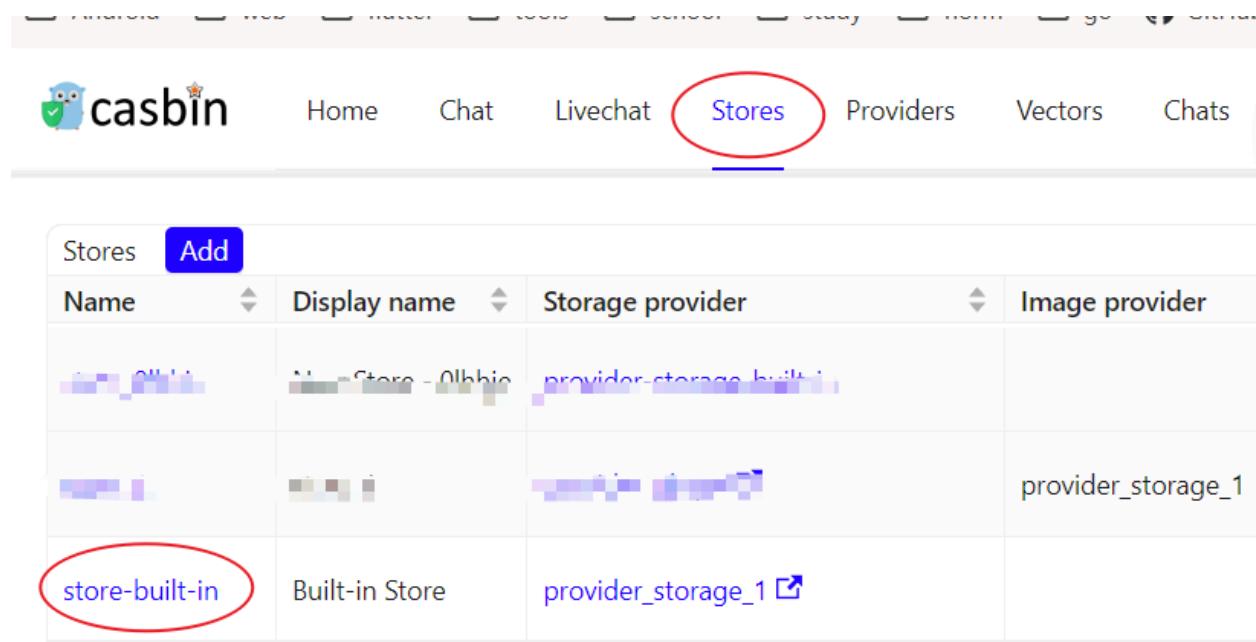
Support Multi-store

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

Step 1: Enable Multi-store

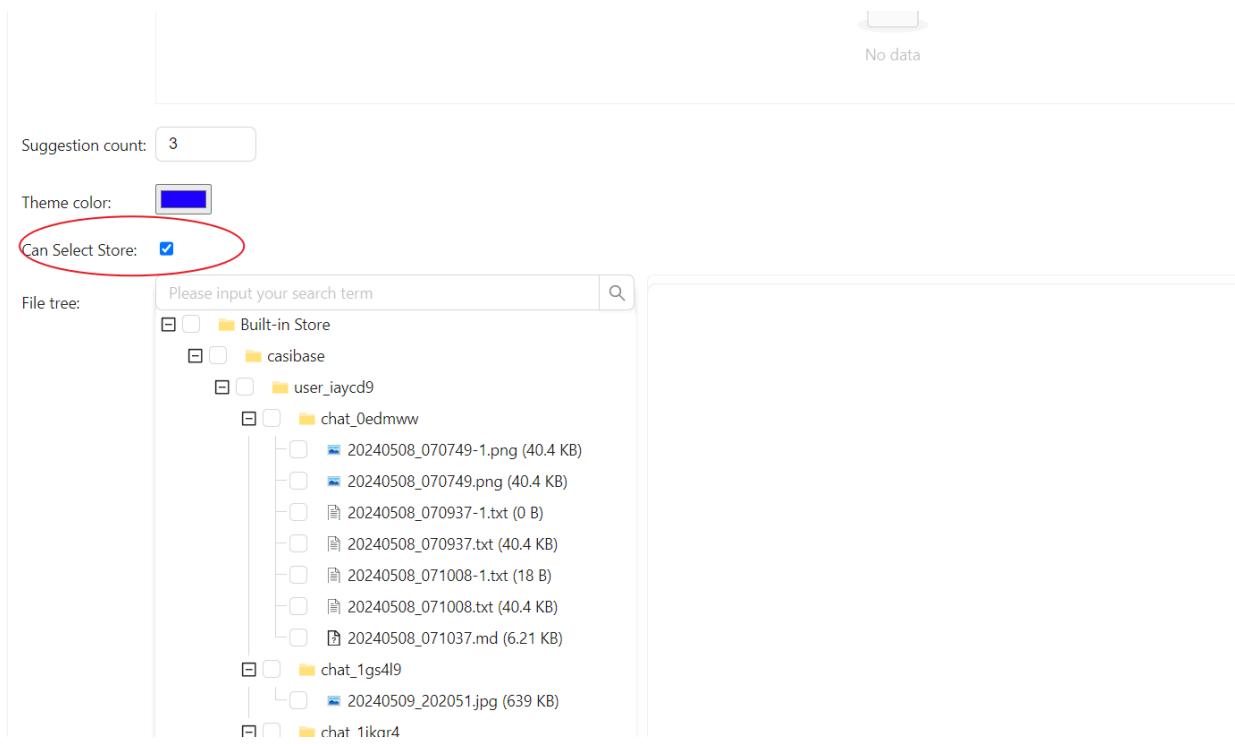
First, you should enable multi-store mode in the built-in store.

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

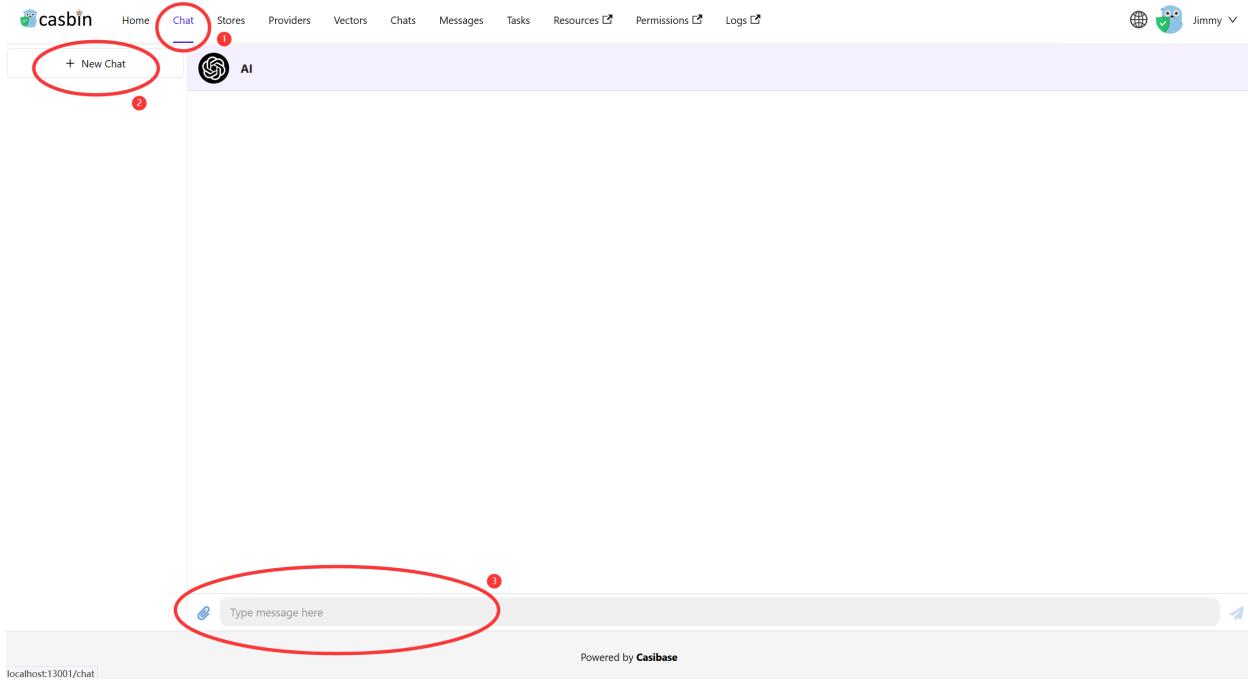
In previous sections, we have deployed Casdoor and Casibase, integrated a storage provider, a model provider, and a embedding provider with Casibase, and added a store to use these providers.

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

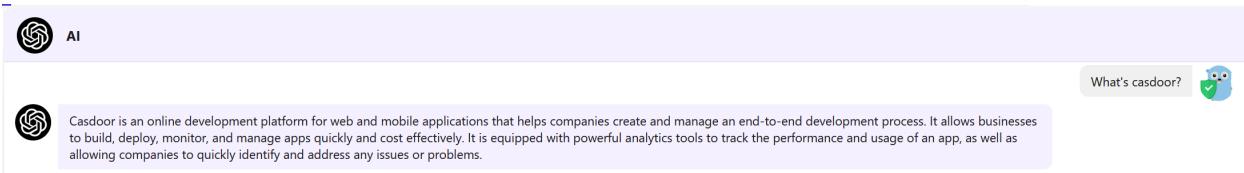
Let's chat with the chatbot in the knowledge base.

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

The screenshot shows the Casdoor web application interface. At the top, there is a navigation bar with links: Home, User Management, Identity, Authorization, Logging & Auditing, Business & Payments, and Admin. Below the navigation bar, there is a sub-navigation menu for 'Organizations' with options: Add, Organizations, Groups, and Users. A red box highlights the 'Add' button under 'Organizations'. In the main content area, there is a table listing organizations. The first row shows 'casibase' with a creation date of '2023-09-06 19:3'. The second row shows 'built-in' with a creation date of '2023-08-14 14:22:15' and a note 'Built-in Organization'. The table has columns for Name, Created time, Favicon, Website URL, Password type, Password salt, and Default avatar. Red boxes highlight the 'Add' button and the 'Organizations' sub-menu item.

Name	Created time	Favicon	Website URL	Password type	Password salt	Default avatar
casibase	2023-09-06 19:3		https://door.casdoor.com	plain		
built-in	2023-08-14 14:22:15		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)

Edit Application

Name: app-casibase (1)

Display name: Casibase

Organization: casibase (2)

Client ID: 548c8b9c7431d2621db1 (3)

Client secret: 2bc7640d487fc4dea6f4b77f07f1bf4433e4ad40 (3)

Save & Exit (4)

- Add a member to the newly created organization

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

Users	Add	Upload (xlsx)
Organization	<input type="text"/> app-casibase	
Name	user_e6y4db	
Created time	2023-09-06 19:37:26	
Display name	New User - e6y4db	
Avatar		
Email	e6y4db@example.com	83359893102
Phone		Example Inc.

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

Casdoor

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

Edit User Save Save & Exit ④

Organization ③: casibase

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

Name ③: user_e6y4db ①

Display name ③: New User - e6y4db

Avatar ③: Preview:

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

Upload a photo...

User type ③: normal-user

Password ③: Modify password... ②

Email ③: e6y4db@example.com

Phone ③: +1 83359893102

Homepage ③:

Bio ③:

Tag ③: staff

Language ③:

Gender ③:

Birthday ③:

Education ③:

Score ③: 0

Karma ③: 0

Ranking ③: 1

Signup application ③: app-casibase ③

Groups ③:

Deployment

Deploy Casdoor and Casibase

Discover how to deploy Casdoor and Casibase.

Deploy Casdoor and Casibase

Introduction



What is Casdoor?

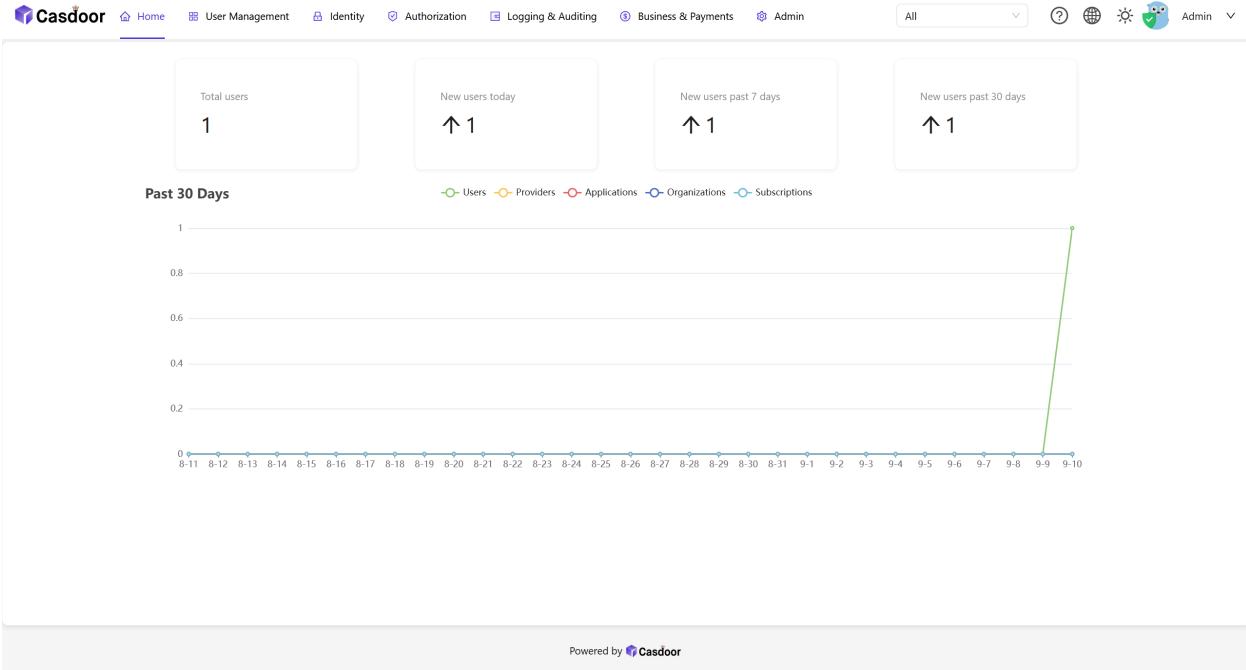
Casdoor is a powerful authentication system that provides a secure and reliable login experience. It's a prerequisite for Casibase, so be sure to deploy it first.

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

Step 1: Deploy Casdoor

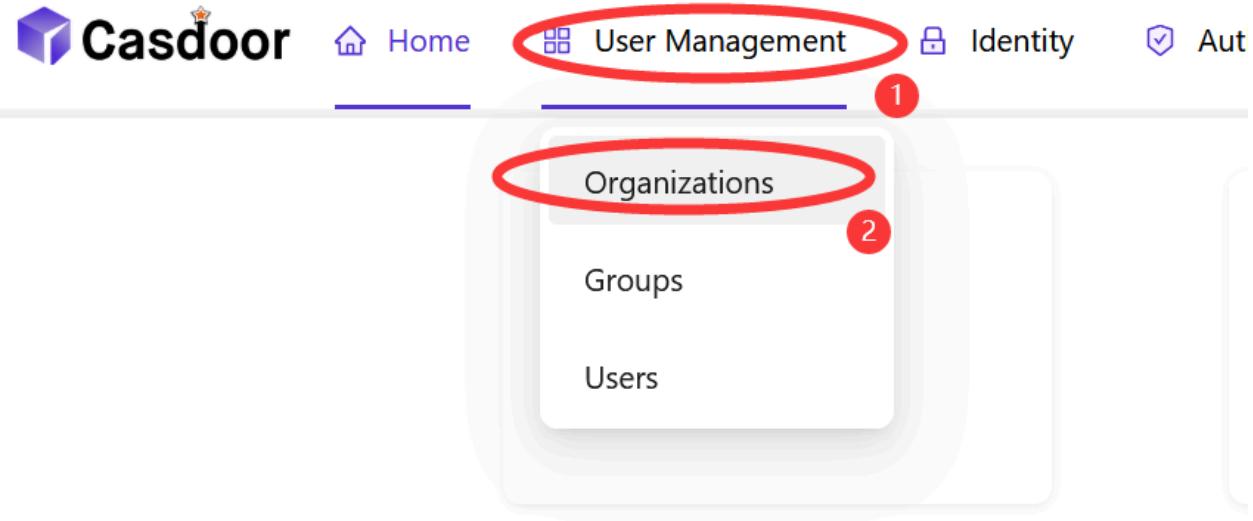
In [Casdoor Deployment Guide](#), you can find the detailed steps to deploy Casdoor.

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

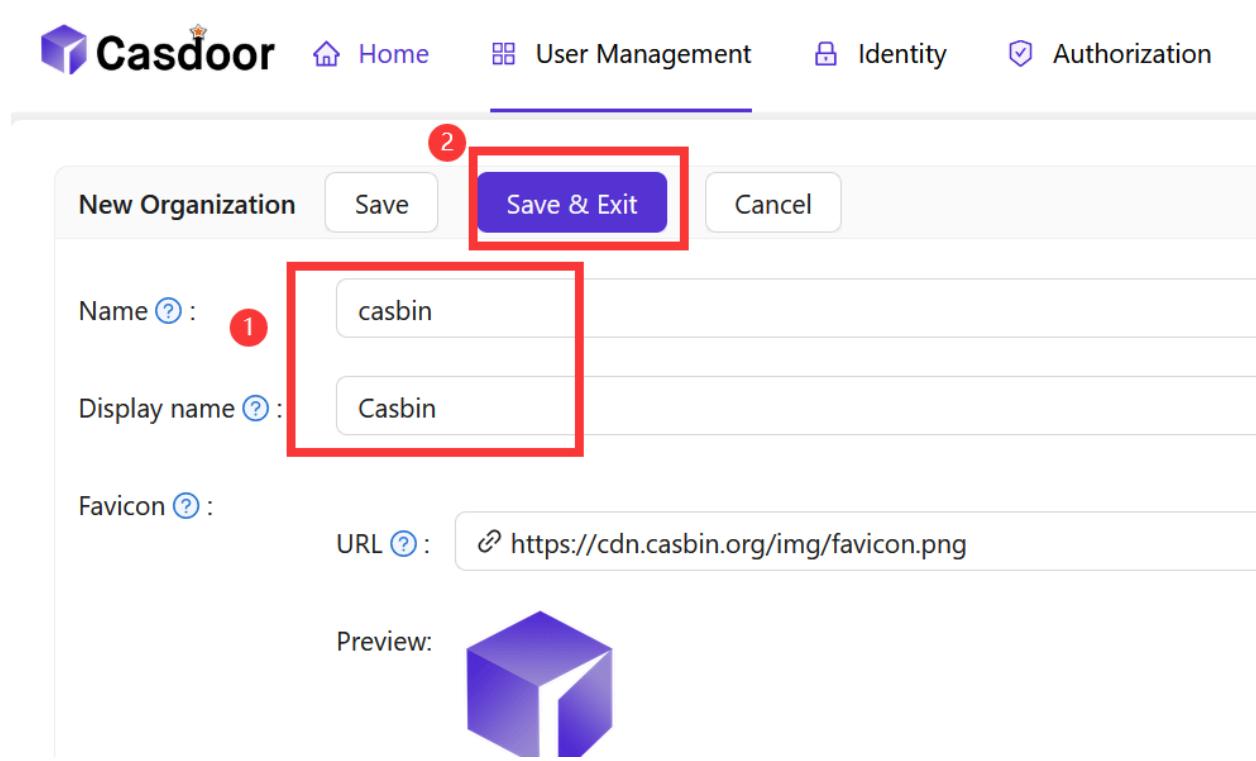
Click the **Add** button to add an organization.

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 ? :

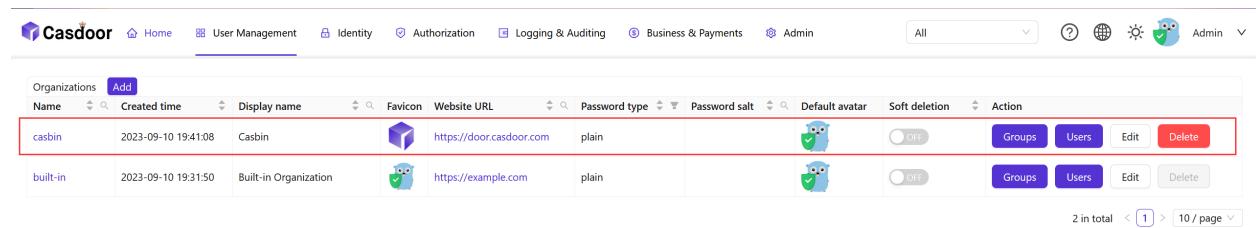
URL ? : <https://cdn.casbin.org/img/favicon.png>

Preview:



Step 2.3: View the organization

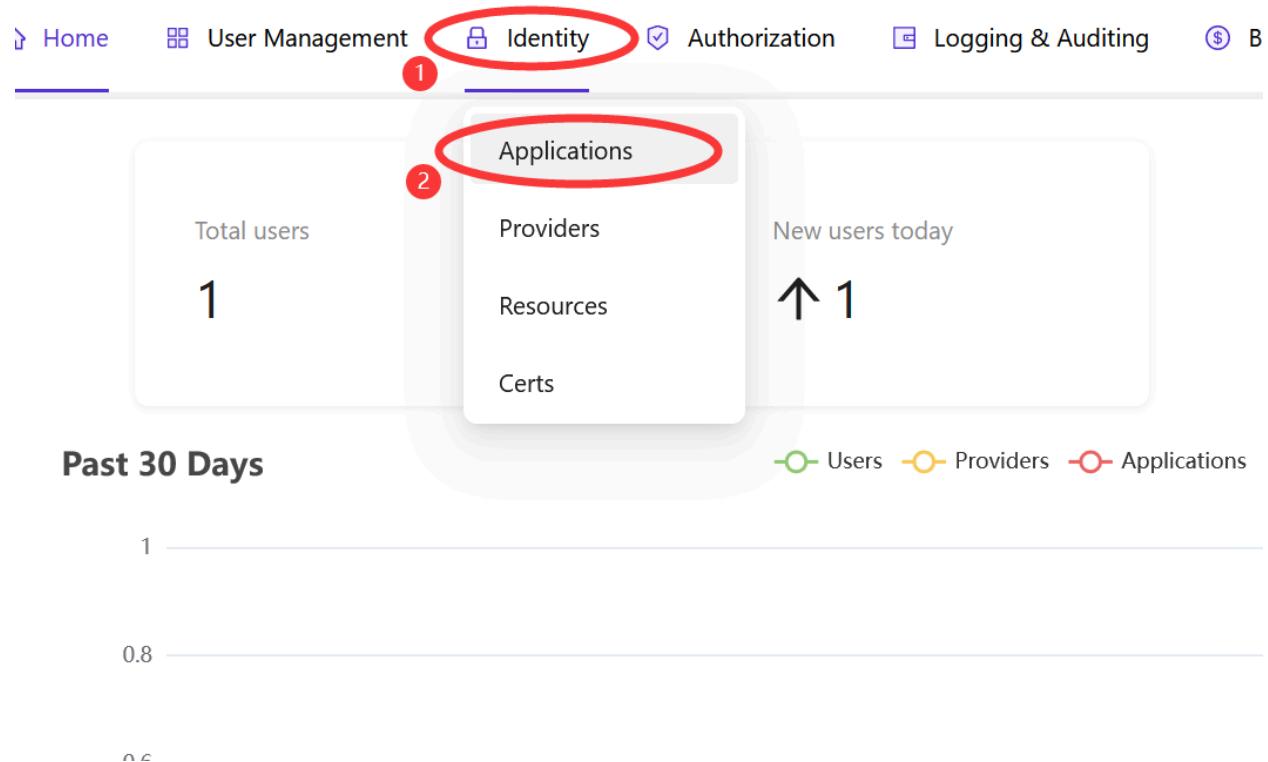
After adding the organization, you can view the organization information.



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

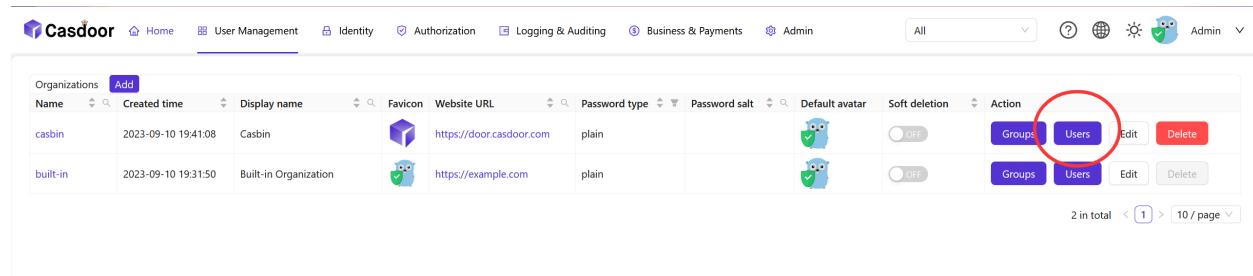
Applications Add

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>

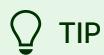
2 in total < 1 > 10 / page

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 User Management interface. At the top, there are several navigation tabs: Home, User Management (which is active), Identity, Authorization, Logging & Auditing, Business & Payments, Admin, and a search bar. Below the tabs is a table titled "Organizations". The table has columns for Name, Created time, Display name, Favicon, Website URL, Password type, Password salt, Default avatar, Soft deletion, and Action. There are two rows in the table: "casbin" (Created 2023-09-10 19:41:08, Display name Casbin, Favicon purple cube, Website URL https://door.casdoor.com, Password type plain, Default avatar owl, Soft deletion off) and "built-in" (Created 2023-09-10 19:31:50, Display name Built-in Organization, Favicon green shield, Website URL https://example.com, Password type plain, Default avatar owl, Soft deletion off). In the "Action" column for the "casbin" row, there are four buttons: "Groups" (purple), "Users" (blue, circled in red), "Edit" (gray), and "Delete" (red). At the bottom right of the table, it says "2 in total" and "10 / page".



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.

[Home](#)[User Management](#)[...](#)[Users](#)[Add](#)[Upload \(.xlsx\)](#)[Organization](#)[Application](#)[Name](#)[Create](#)

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

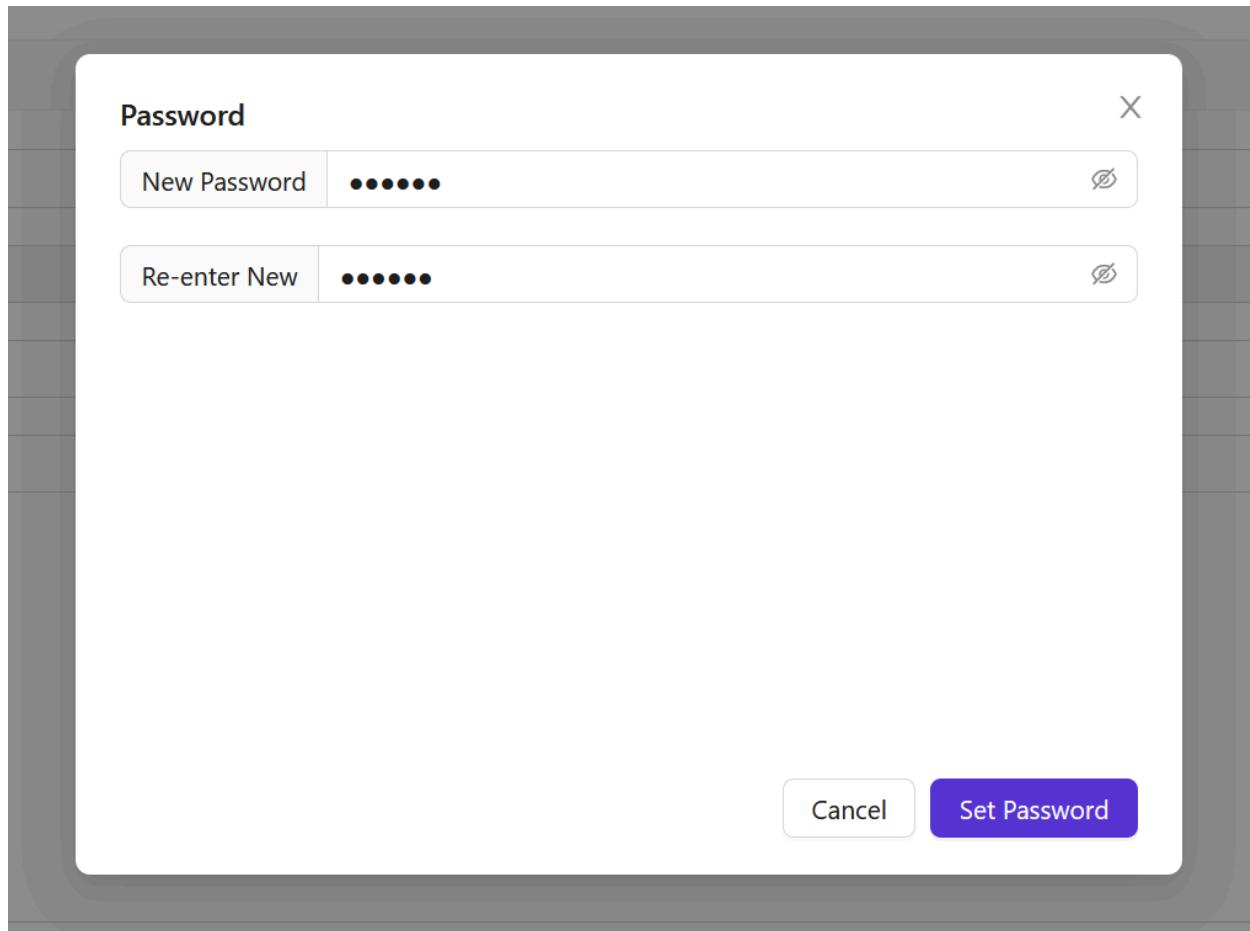
Phone [?](#): +1 71700415009

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 is a message '1 in total' followed by navigation links: '< 1 > 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**

Providers

Overview

Providers Overview

Model Providers

Introduction

Embedding Providers

Introduction

Storage Providers

Introduction

Overview

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

1. Model Providers

Model Providers is a component in Casibase for integrating and managing AI models. It allows users to integrate various pre-trained AI models into the system for smarter knowledge processing and dialogue generation. With Model Provider, users can easily switch between different AI models, choosing the most appropriate model according to specific needs.

Casibase supports a variety of popular AI models, including but not limited to:

Model Provider Types

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

2. Embedding Providers

Data vectorisation

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

Knowledge Retrieval

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

Flexible model support

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

3. Storage Providers

We can configure the storage providers in Casdoor, and use it in Casibase, which is the component used to manage Casibase data storage and retrieval. It allows users to store data in different storage services and access the data through a unified interface. With Storage Providers, users can flexibly choose storage services to ensure data security and efficient access. supports two types of storage: Local and Cloud.

Local

We support uploading files to the local system.

Cloud

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

Model Providers

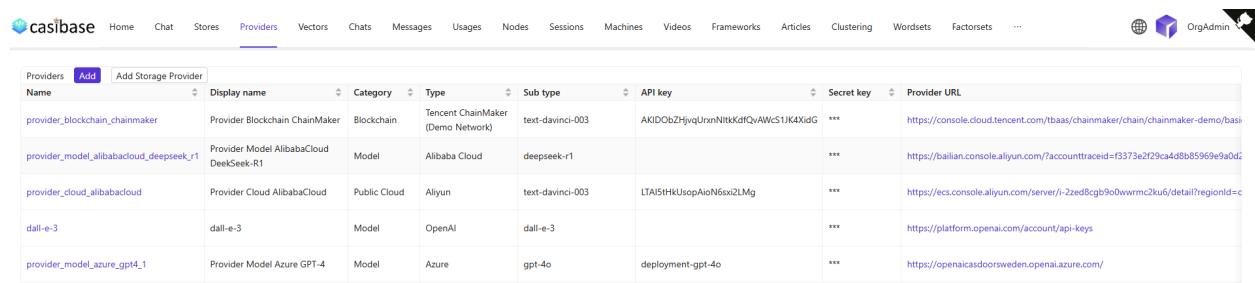
Introduction

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

Add a Model Provider

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

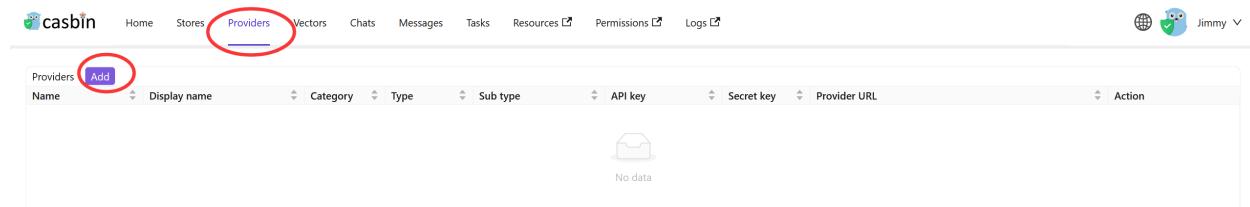
Click the **Providers** button on the home page.



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

Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDOb2HjvqUrxNltkKdfQvAWcS1JK4XidG	***	https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic
provider_model_alibabacloud_deepseek_r1	Provider Model AlibabaCloud DeepSeek-R1	Model	Alibaba Cloud	deepseek-r1		***	https://bailian.console.aliyun.com/?accountTraceId=f3373e2f29ca4d8b85969e9a0dc
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTA15THkUsopAioN6xx2LMg	***	https://ecs.console.aliyun.com/server/i-2zed8cgb9o0wwmc2ku6/detail?regionId=c
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	https://platform.openai.com/account/api-keys
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	https://openai.azure.doorssweden.openai.azure.com/

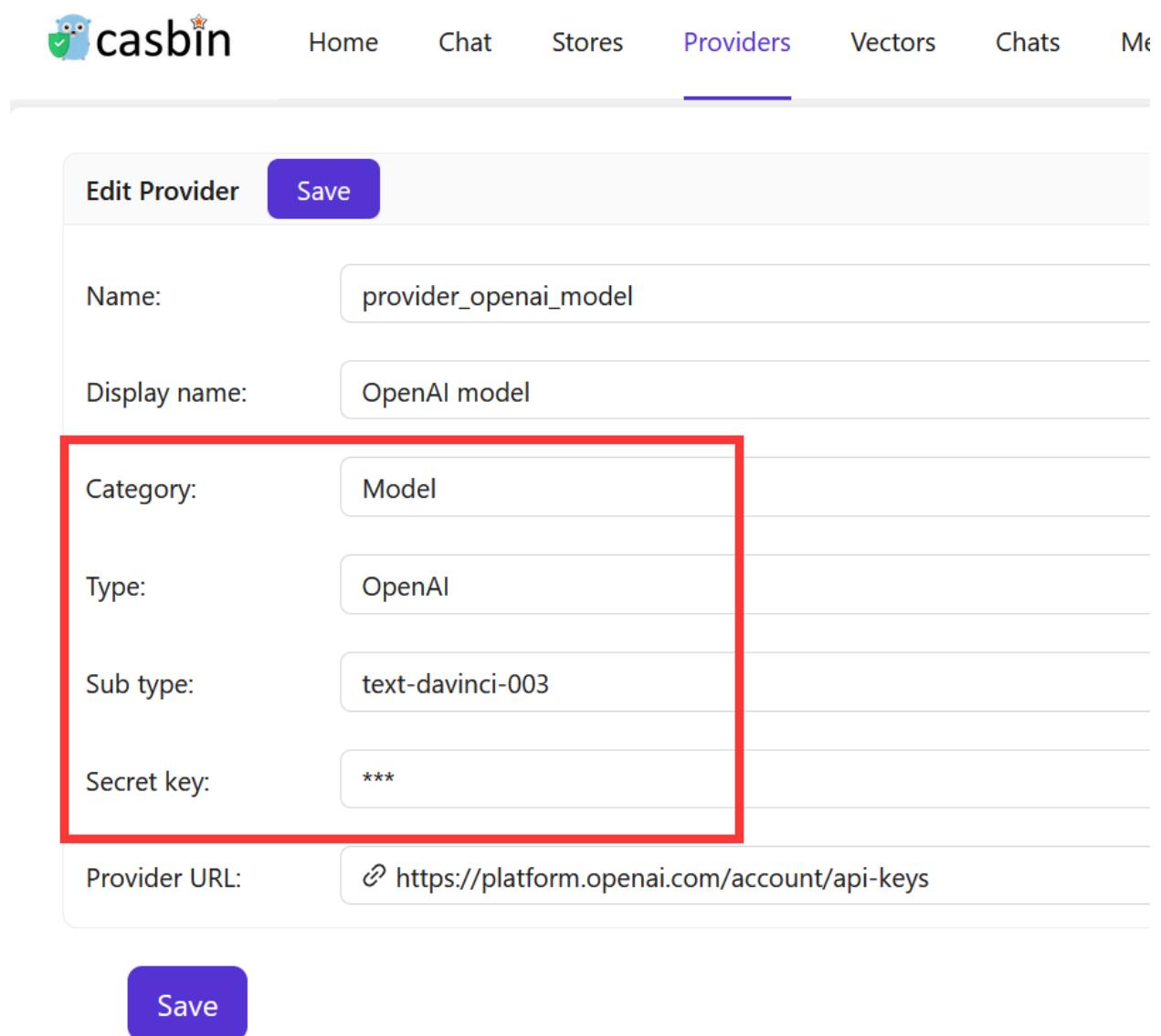
Click the **Add** button to add a model provider.



The screenshot shows the Casibase interface with the 'Providers' tab selected. The 'Add' button in the top-left corner of the table header is circled in red. The table below is empty, showing a 'No data' message.

Fill in Model Provider Details

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



The screenshot shows the Casbin web interface with the 'Providers' tab selected. A red box highlights the 'Category', 'Type', and 'Sub type' fields, which are part of the configuration for the OpenAI model provider.

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/claude-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 casbin provider configuration interface. At the top, there is a navigation bar with links: Home, Chat, Stores, Providers (which is highlighted), Vectors, Chats, and Message. Below the navigation bar, the main area has a title "Edit Provider" and a "Save" button. The form contains the following fields:

- Name: provider_openai_model
- Display name: OpenAI model
- Category: Model
- Type: OpenAI (selected)
- Sub type: OpenAI, Hugging Face, OpenRouter, Ernie
- Secret key: (input field containing a URL)
- Provider URL: (input field containing a URL)

A red circle highlights the "Type" dropdown menu, which is open to show the available options: OpenAI, Hugging Face, OpenRouter, and Ernie.

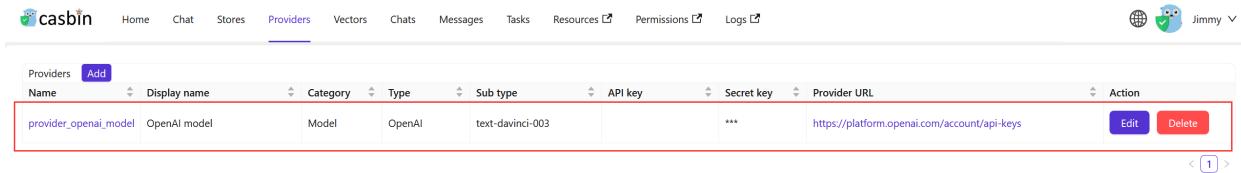
⚠ CAUTION

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 a 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>

At the bottom right of the table, there is a small blue box containing the number '1'.

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.

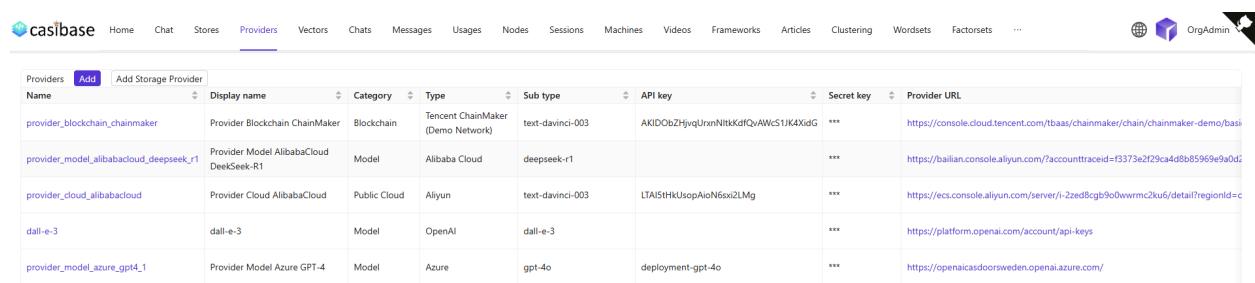
Refer to the [Core Concepts](#) section of our previous documentation for more information about embedding.

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.



Name	Display name	Category	Type	Sub type	API key	Secret key	Provider URL
provider_blockchain_chainmaker	Provider Blockchain ChainMaker	Blockchain	Tencent ChainMaker (Demo Network)	text-davinci-003	AKIDObZHjvqUrxnNltkKdfQvAWcS1JK4XidG	***	https://console.cloud.tencent.com/tbaas/chainmaker/chain/chainmaker-demo/basic
provider_model_alibabacloud_deepleek_r1	Provider Model AlibabaCloud Deepleek-R1	Model	Alibaba Cloud	deepleek-r1		***	https://bailian.console.aliyun.com/?accounttraceid=f3373e2f29ca4d8b85969e9a0d2
provider_cloud_alibabacloud	Provider Cloud AlibabaCloud	Public Cloud	Aliyun	text-davinci-003	LTAi5ThkUsopAioN6xx2LMg	***	https://ecs.console.aliyun.com/server/i-2zed8gb9o0wwrmc2ku6/detail?regionId=cn-hangzhou
dall-e-3	dall-e-3	Model	OpenAI	dall-e-3		***	https://platform.openai.com/account/api-keys
provider_model_azure_gpt4_1	Provider Model Azure GPT-4	Model	Azure	gpt-4o	deployment-gpt-4o	***	https://openaiacsdoorsweden.openai.azure.com/

Add an Embedding Provider

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

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

Fill in Embedding Provider Details

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

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

Name:

embedding_openai_adasimilarity

Display name:

Embedding_OpenAI_AdaSimilarity

Category:

Embedding

Type:

OpenAI

Sub type:

AdaSimilarity

Secret key:

Provider URL:

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

Casibase supports many embedding providers, including:

- [OpenAI](#)

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

Return providers list page:

The screenshot shows the Casibin provider list page. The top navigation bar includes Home, Chat, Stores, Providers (which is highlighted), Vectors, Chats, Messages, Tasks, Resources, Permissions, and Logs. On the right, there's a user profile for Jimmy. The main content area displays a table of providers with the following data:

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.

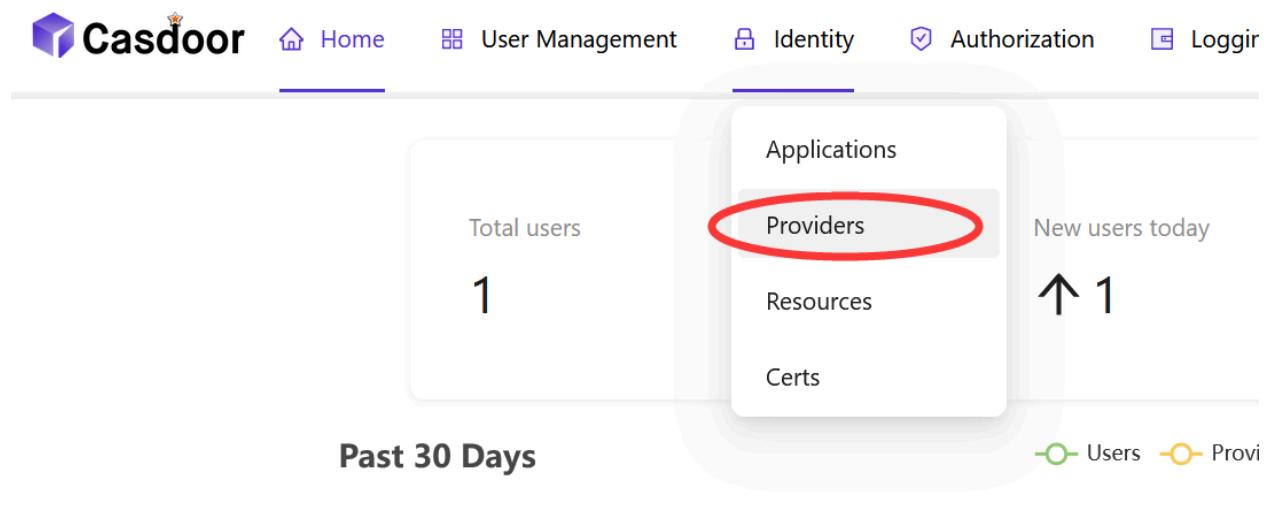
Storage Providers

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

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".

The screenshot shows the following fields:

- Name: store_v6c22m
- Display name: New Store - v6c22m
- Storage provider: (empty)
- Model provider: (empty)
- Embedding provider: (empty)

Below the form is a "File tree:" section which is currently empty.

At the bottom of the form is a "Save" button.

At the very bottom of the page is a footer bar with the text "Powered by Casibase".

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

casbin

Home Chat Stores Providers Vectors Chats Messages Tasks Resources ↗ P

Edit Store Save

Name: my_store

Display name: My_Store

Storage provider: Provider_storage_1 (provider_storage_1)

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

Embedding provider:

File tree:

```

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

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

casbin

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

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

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.

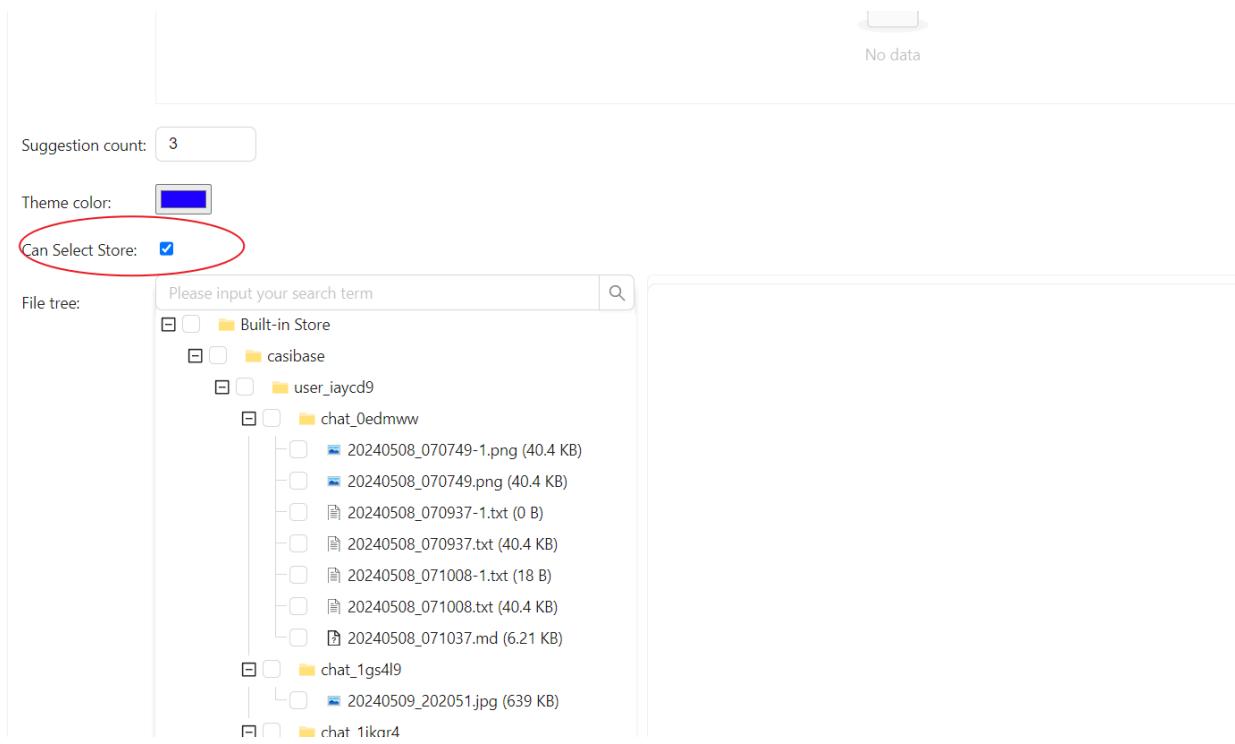
Enable Multi-store

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.

Stores		Providers	Vectors	Chats	Messages	Usages	Nodes	Machines	Images	Sessions	Swagger	Users	Resources	...	
Name	Display name	Storage provider		Image provider	Model provider		Embedding provider		Memory limit		State		Action		
store_0v0xx	New Store - 0v0xx	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_wcjrxk	New Store - wcjrxk	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>

2. View vectors

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

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

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

Edit Vector
Save
Save & Exit

Name:	vector_ophabu
Display name:	google.com_pub-350967891
Store:	store_08v0xx
Provider:	provider_embedding_azure
File:	casdoor-website/static/ads.txt
Text:	google.com_pub-350967891753247, DIRECT, f08c47ffec0942fa0
Size:	
Dimension:	1536
Data:	<pre>-0.011380682,-0.01952684,-0.017577048,-0.036407735,-0.033378110,0.0012354781,-0.0064967177,-0.009500255,-0.009101934,-0.0176554,-0.0021736459,0.013737783,-0.0012617997,-0.025320875,0.0008781995,0.015853297,0.011648386,-0.30035077,0.008488 174,-0.01055792,-0.02166443,-0.0058601047,-0.0033985341,-0.01487389,-0.0128823436,0.019300802,0.0160268,-0.006980675,0.004937527,-0.015696593,-0.0044941,0.0025301287,-0.02987337,-0.023649357,-0.0125333205,-0.0073324763,0.0023565205,-0.006895003,0.026979333,-0.012627791,0.017776195,0.01283363,0.016284235,-0.01756811,-0.010935665,0.0102315135,0.019901503,-0.024223942,-0.00745653340,0.02354235,0.018295279,0.014338484,-0.0192234,0.009192433,0.011883443,-0.0043514740,0.038340427,-0.08762407,0.09813653,-0.006864466,0.012985195,-0.001262269,0.0068362444,-0.038575485,-0.009081545,0.0251773,-0.031654358,-0.01418551,0.0027933,-0.009767929,0.0058614,0.045078732,0.009192234,0.011883443,-0.0043514740,0.038340427,-0.13071788,-0.01037516,-0.00452172,0.016610702,0.012190323,0.022239015,-0.014704129,-0.014651894,0.031236479,0.028272148,-0.008504497,0.03891501,0.008005001,-0.00416247,0.01068569,-0.000692713,-0.0068 95090,-0.0269607,-0.011328447,0.041914048,0.01640706,0.00950706,0.014012015,-0.01463835,-0.020972319,0.0002544117,0.01284979,-0.02461703,-0.016349528,-0.01713052,0.0000183065,0.00239012,-0.0261 17899,-0.003307123,-0.01062905,0.01119507,-0.010212051,0.002391601,-0.007321847,0.0365103,0.023852773,-0.01798347,0.00023253947,-0.02583315,-0.021298787,-0.0064085713,0.030651894,0.009376167,-0.010664252,-0.010544923,0.03802702,0.01339492,0.003486606,0.01302611,0.009971347,0.014234014,-0.0204107 78802,-0.00114002,-0.016778453,0.022630777,-0.018621746,0.007325947,-0.02583315,-0.021298787,-0.0064085713,0.030651894,0.009376167,-0.010664252,-0.010544923,0.03802702,0.01339492,0.003486606,0.01302611,0.009971347,0.014234014,-0.0204107 93,-0.00675657,0.006842774,0.002992081,0.01201524909,-0.0029968105,0.004228051,0.01314361,-0.01266655,-0.004694613,0.00172722,0.010988444,-0.012405792,0.00499703,0.028572498,0.007358594,-0.004521548,0.007273711,-0.019196332,0.004782 796,-0.0037968254,-0.0052561383,0.025516756,-0.02001903,0.03207274,0.0232516254,-0.00645999,-0.0093732067,-0.026571718,0.000645102,-0.00595478,0.033221405,0.021024553,-0.010625686,-0.00348786,0.0216383,0.007008441,-0.012229499,-0.01894 8216,0.024746294,0.013267668,-0.007743826,-0.0681562,-0.023244537,0.015177985,-0.0020309,0.012771437,0.0403006,0.007686935,0.000339329,-0.0201235,0.0055246,0.00426375,-0.012307852,-0.005689895,0.015044007,0.002747934,0.01011398,-0.015418205,0.009786865,0.001039891,0.0203455,-0.00391654,0.012360087,-0.017968811,0.001394854,0.01654358,-0.003232667,-0.00593192,0.01290224,-0.00919918,0.0103528483,0.005179723,0.005284683,-0.007585934,0.016186443,-0.014650262,0.043047213,-0.044608615,-0.01675996,0.013594137,0.00955899,-0.00473789,0.0105208315,0.025593105,0.009950675,-0.022526307,-0.017166165,0.014704129,-0.00886465,-0.004214704 0.0053042513,0.0020420884,-0.0070196667,0.0065857185,-0.0068493034,-0.03557946,0.012307852,-0.0036629734,-0.008279326,-0.031967767,-0.028468028,-0.026078238,0.010257632,-0.014952244,0.026356573,0.02457351,0.012373146,-0.0052324917,0.02028 4675,-0.023440419,0.018321397,0.0001488491,0.0072867707,0.026979333,-0.011184801,0.003852325,0.011907546,0.0056021945,0.005666481,0.0024370951,-0.010819157,0.034840688,0.0060037505,-0.015853297,-0.02085479,0.008866876,-0.014860833,0.015605</pre>

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.

Chats



Overview

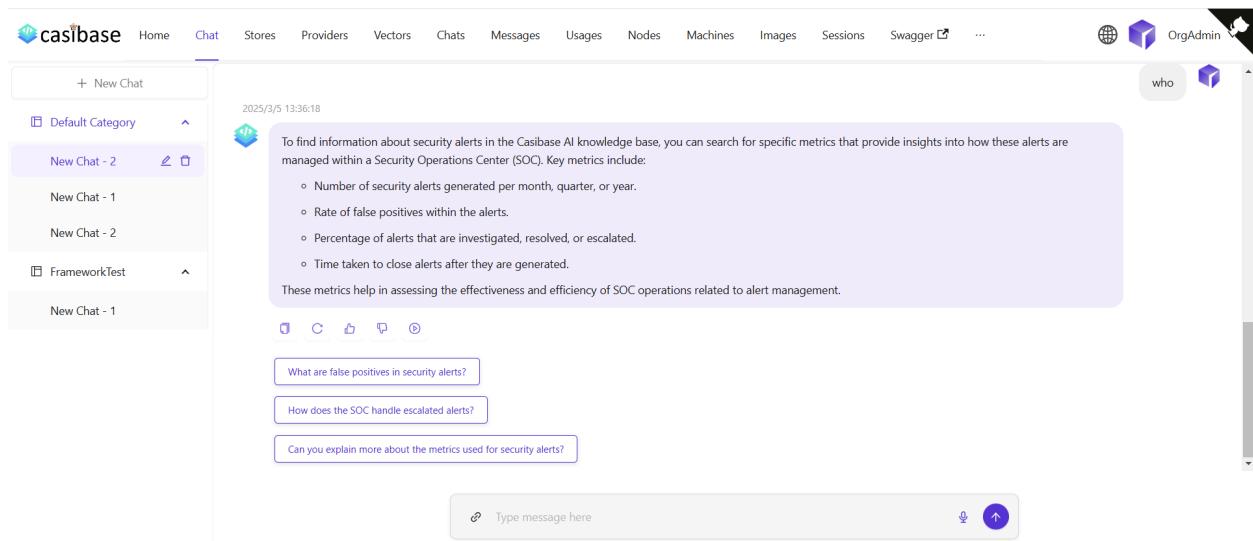
Chats Overview

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 for the selected 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

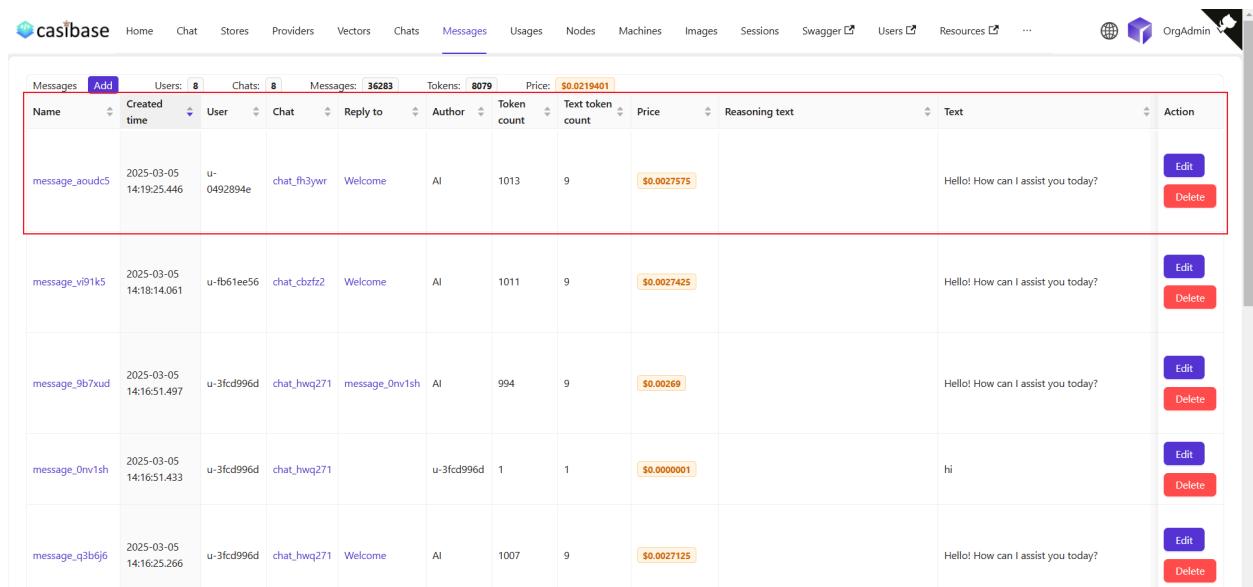
Messages Overview

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' with arrows, a page number '1', and a '10 / page' dropdown.

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

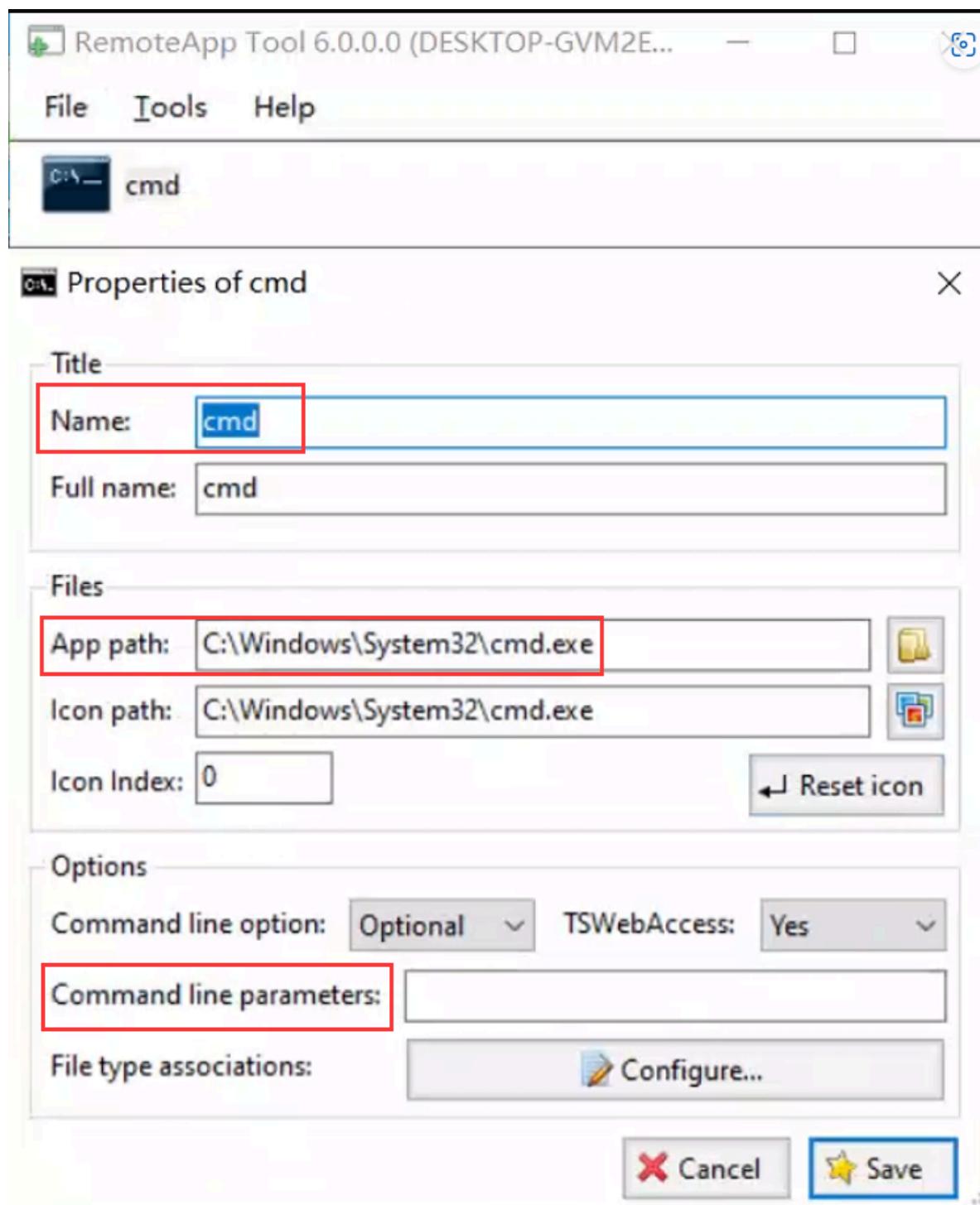
3. Connect to your node by clicking the **connect** button

Remote App

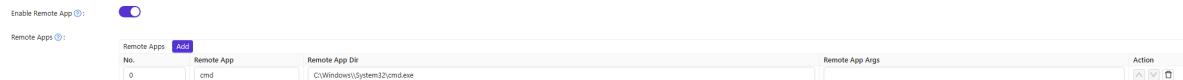
We support remote app on Windows nodes, you can add remote apps on **node Edit** page, and then you can connect to your remote app by clicking the **connect** button.

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

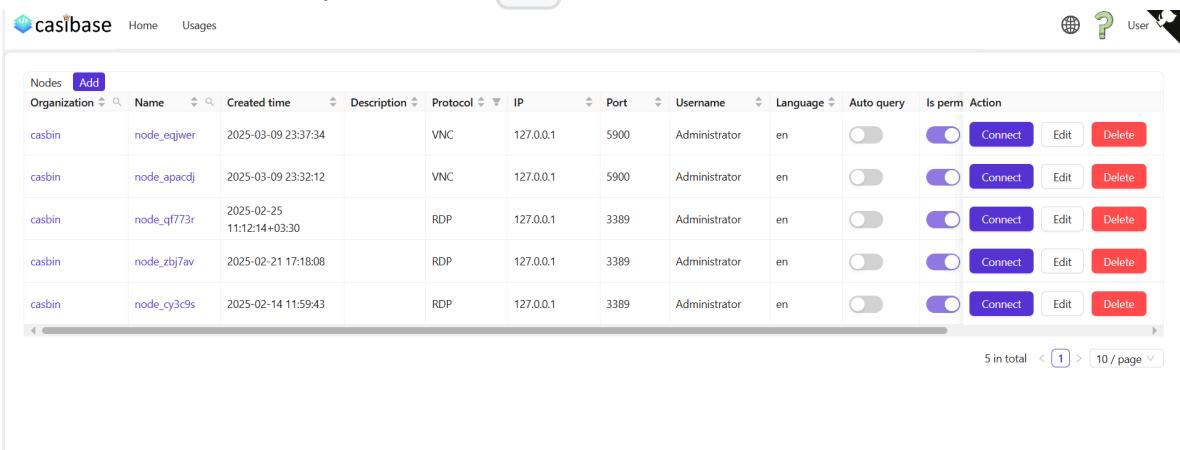
VCN Connect

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.