Overview

Overview

An open-source security log auditing & RDP, VNC, SSH bastion platform:

Casvisor Features

1. Asset managment: Remote connection via RDP, VNC protocols.

2. Log managment

Server Installation

Prerequisite

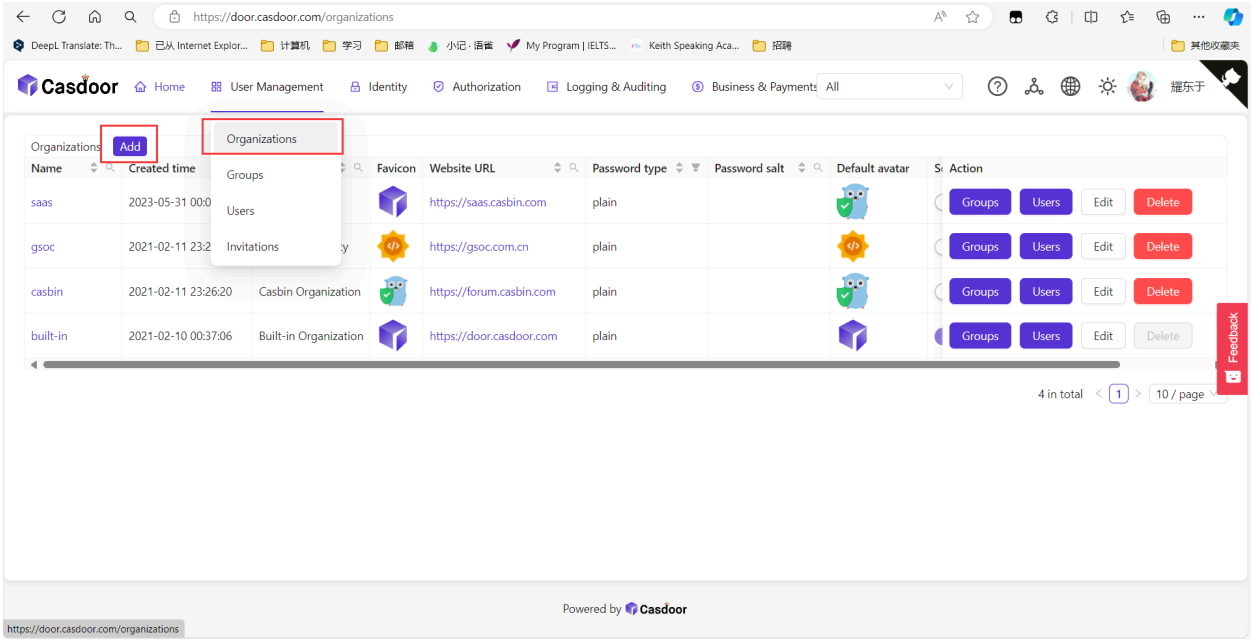
Casvisor server uses Casdoor as the authentication and authorization system. So you need to install Casdoor first. If you haven't installed Casdoor, please refer to Casdoor Installation.

Casdoor configuration

You have installed Casdoor, now you need to do some necessary configuration in Casdoor in order to use Casvisor.

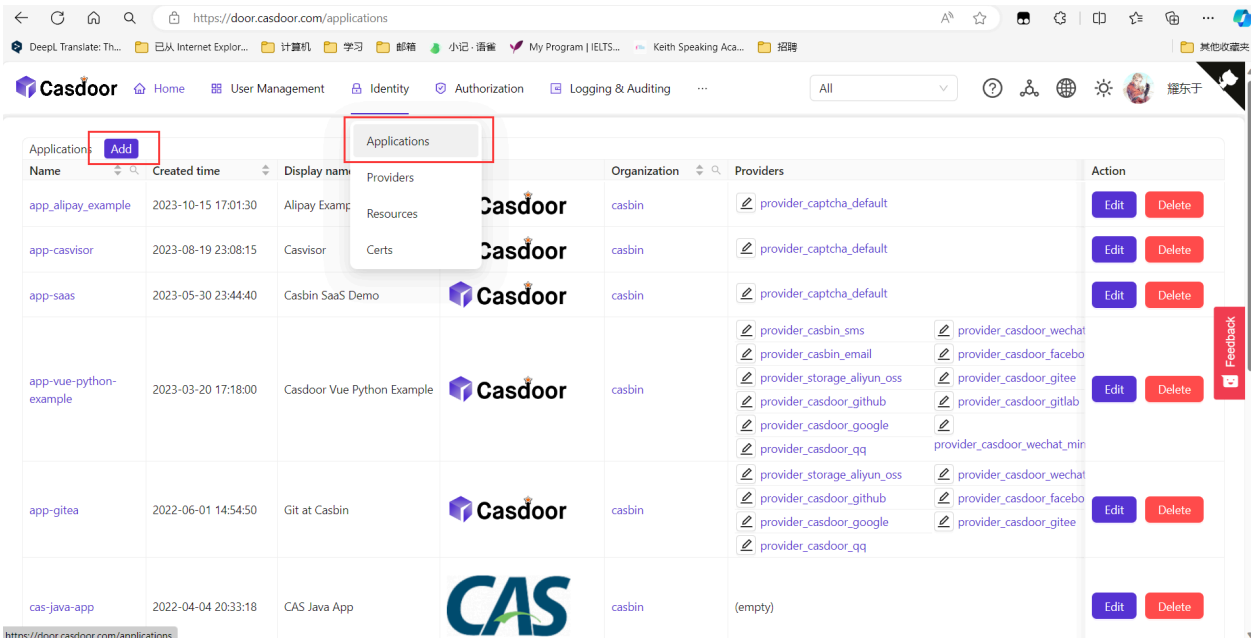
Create an organization

First, you need to create an organization (Except for the `build-in`) in Casdoor. The organization page is at **User Management → Organizations**. And you can create an organization by clicking the `add` button.



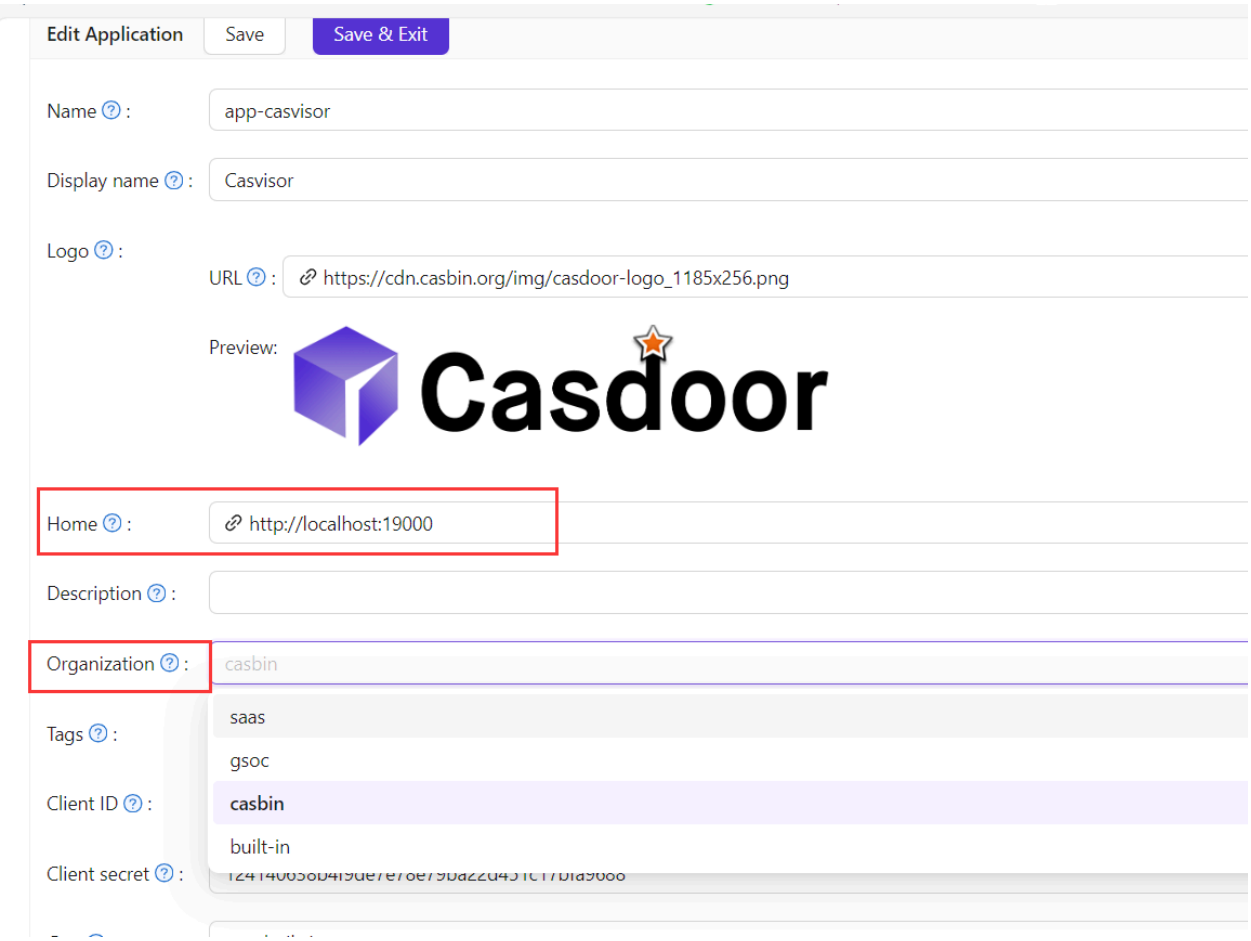
Create an application

You need to create an application for Casvisor in Casdoor. The application page is at **Identity → Applications**. And you can create an application by clicking the `add` button.



Required fields:

1. `Home`: The host of Casvisor server, e.g. `http://localhost:16001`.
2. `Ognization`: The organization you created in the previous step.
3. `Callback URLs`: The callback URL of Casvisor server, e.g. `http://localhost:16001/callback`. You can add multiple callback URLs by clicking the `add` button. These are the urls that is allowed to be redirected after login.



Download

The source code of Casvisor is hosted on GitHub: https://github.com/casbin/

casvisor. Both the Go backend code and React frontend code are contained in a single repository.

Name	Description	Language	Source code
Frontend	Web frontend UI for Casdoor	JavaScript + React	https://github.com/casbin/casvisor/tree/master/web
Backend	RESTful API backend for Casdoor	Golang + Beego + XORM	https://github.com/casbin/casvisor

Casvisor supports `Go Modules`. To download the code, simply clone the code using git:

```
git clone https://github.com/casbin/casvisor
```

Configuration

Backend

The configuration file of Casvisor backend located at `conf/app.conf`. You need to modify the following fields:

Database

Modify `dataSourceName` to your own database connection string. Casvisor will create a database named `casvisor` if it doesn't exist.

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

Connect Casdoor

Modify `casdoorEndpoint`, `clientID`, `clientSecret`, `casdoorOrganization` and `casdoorApplication` to your own Casdoor configuration. You can get the `clientID` and `clientSecret` from the application page that you created in the previous step.

```
casdoorEndpoint = http://localhost:8000
clientId = c34fdf145f41313727a8
clientSecret = 615c503d4552d24a40360cf908b6d17e3b7f8832
casdoorOrganization = "casbin"
casdoorApplication = "app-casvisor"
```

Frontend

In `web/src/conf.js`, you need to modify the following fields:

```
    export const AuthConfig = {
    serverUrl: "http://localhost:8000",
    clientId: "c34fdf145f4131b727a8",
    appName: "app-casvisor",
    organizationName: "casbin",
    redirectPath: "/callback",
};
```

Run

Before running Casvisor, make sure Casdoor is running.

Production

In production, you need to build the frontend code first, then run the backend code.

Build frontend

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

After building successfully, the frontend bundle will be generated in `web/build` directory.

Run backend

```
go build
```

Visit backend server at http://localhost:19000.

Development

In development, you need to run the frontend code and backend code at the same time.

Run frontend

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

Run backend

```
go build
```

Visit frontend server http://localhost:16001.

Assets

Overview

Casvisor Assets Overview

RDP

Casvisor Assets RDP

VNC

Casvisor Assets VNC

Overview

Casvisor helps you to manage assets, and connect to your assets remotely, it currently supports the following protocols:

- RDP
- VNC

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

Let's explore together!

RDP

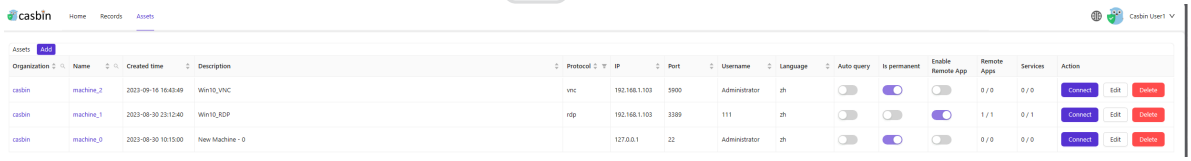
Casvisor Support Connect to your assets via RDP protocol:

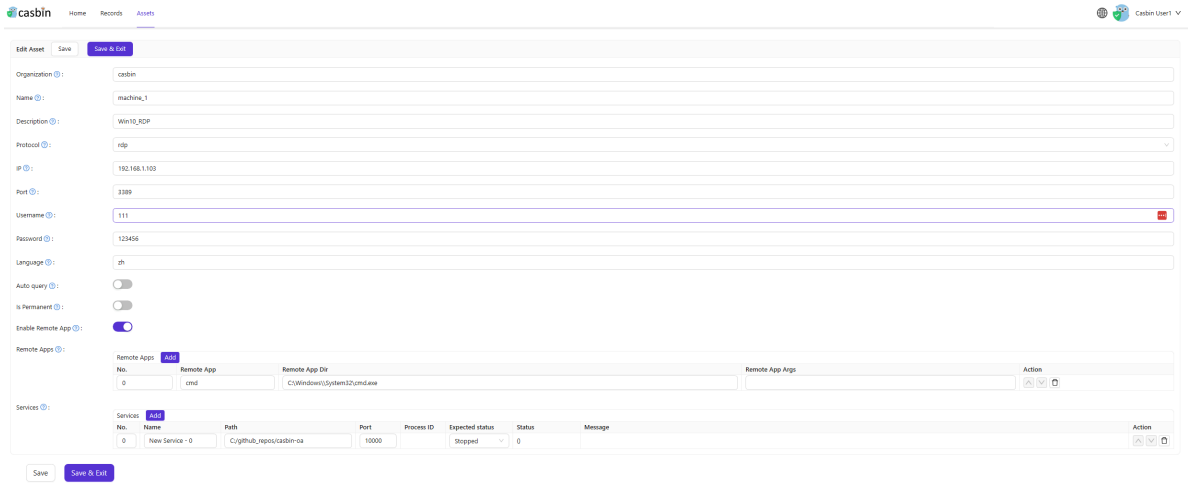
Rdp connection

1. Start Guacamole Server

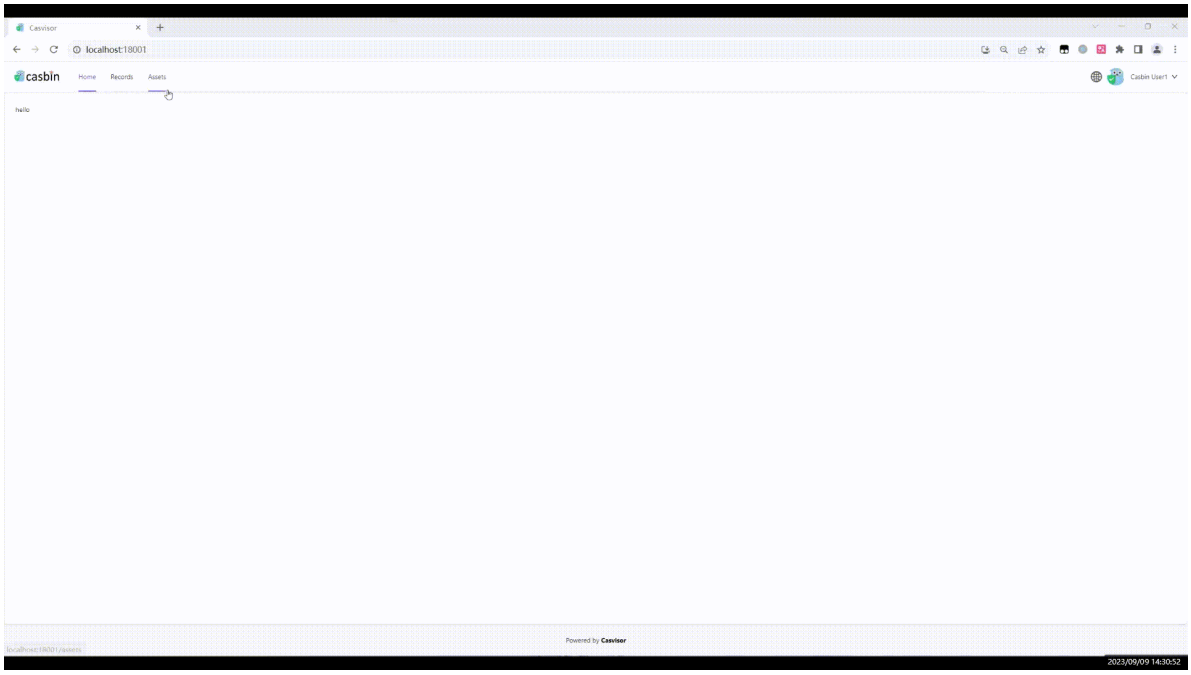
```
docker run --name guacd -d -p 4822:4822 guacamole/guacd
```

2. Add a new asset, set protocol to `rdp`





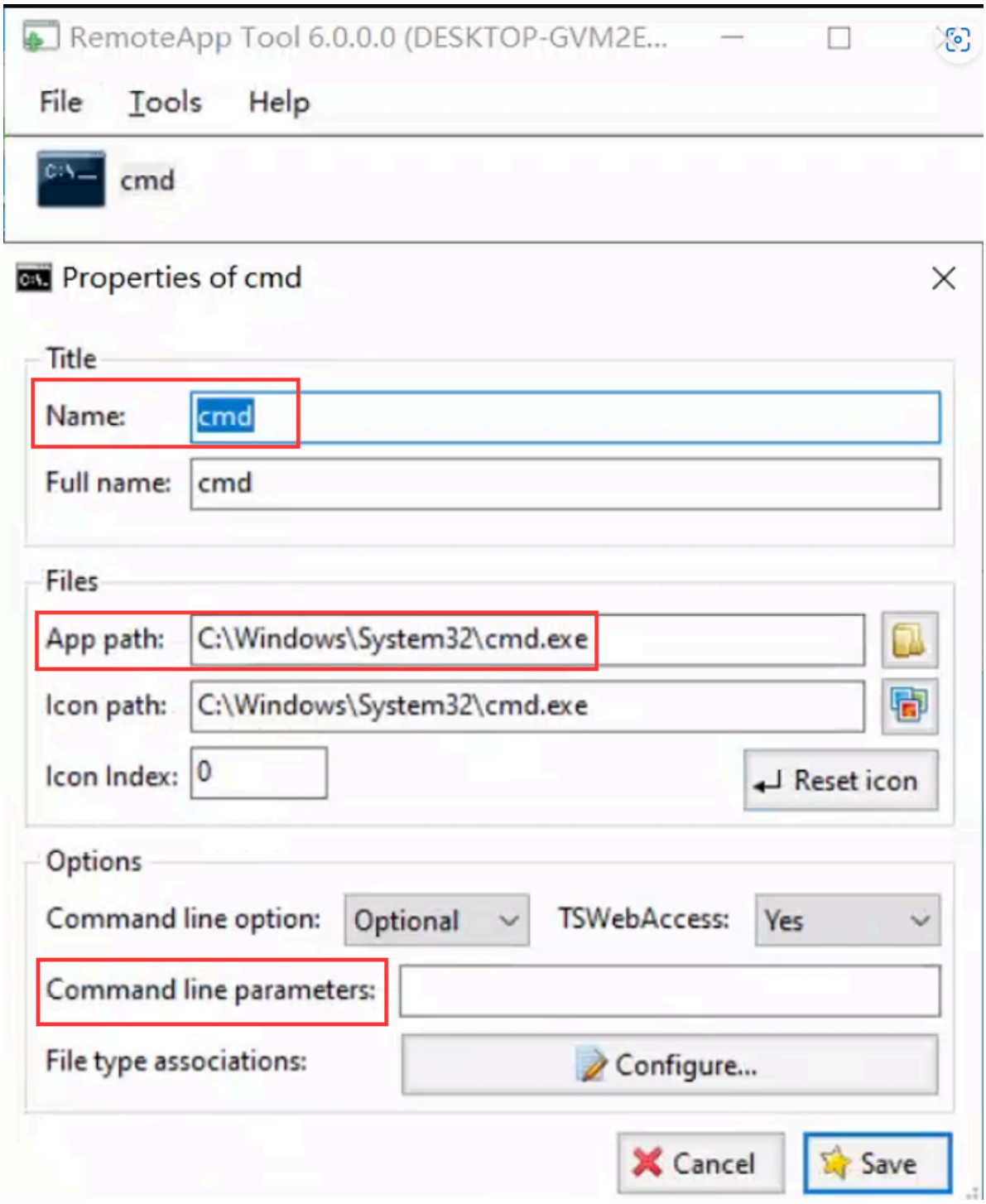
3. Connect to your asset by clicking the `connect` button



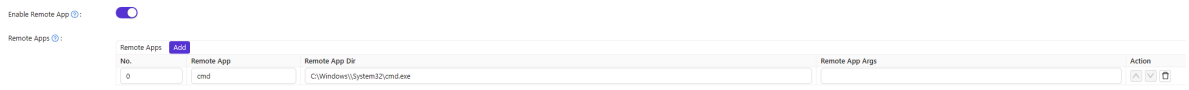
Remote App

We support remote app on Windows assets, you can add remote apps on `Asset 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.

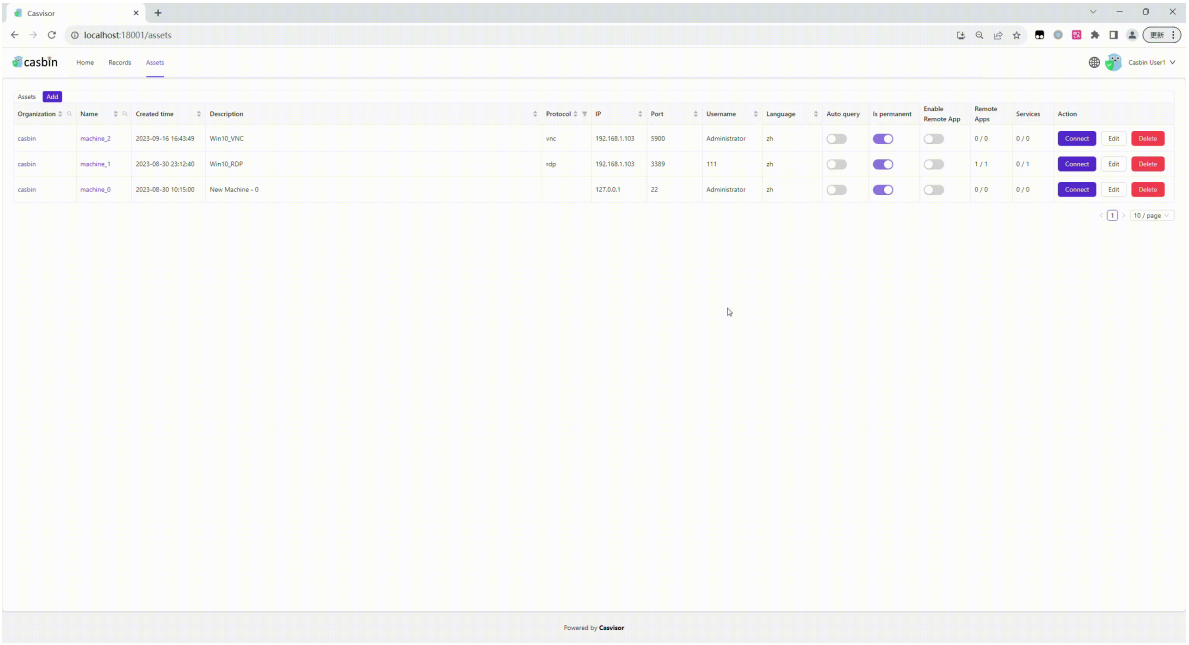


2. Configure the remote app information in the asset edit page according to the server-end configuration. 'remoteAppName', 'remoteAppDir', and 'remoteAppArgs' are required.



refer to Configuring Guacamole — Apache Guacamole Manual v1.5.3

3. Connect to your remote app.



VNC

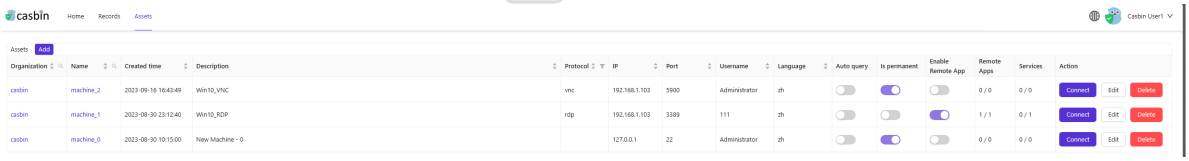
VCN Connect

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 asset, set protocol to `vnc`



3. Connect to your asset by clicking the `connect` button