Full installation of Soffid 4 as test environment

Introduction

This guide describes **all the steps required to install Soffid 4 as test environment**.

We’re going to install it using **Docker Compose**, as it’s the simplest and quickest method for both installation and maintenance.

Prerequisites

User prerequisites

- To have a **Linux** machine; Ubuntu 24 has been used for this tutorial.
- The Linux administrator user must have **sudo privileges**.
- To have a **Soffid account** for the license activation step.

Soffid prerequisites

- Your Soffid account has to had a special **role to download Soffid 4 images** from the marketplace.
- Your Soffid account has to had a **Soffid 4 license** for the test environment.

Step 1: Install Docker & Docker compose

The first step is to install **Docker** and **Docker compose**. Docker is the platform and compose is a tool that simplifies management.

1.1 Install docker

Install docker.

```
sudo apt-get update
sudo apt-get install docker.io
docker --version
```

1.2 Use docker without sudo

To use docker without sudo.

Command	**Comment**
sudo gedit /etc/group	Edit the file with your editor (gedit for this example)
docker:x:988:YOUR-USER	Add YOUR-USER at the end of the docker command without : at the end
logout	Log out from the ubuntu session (sometimes we have needed a restart)
login	Log in into the ubuntu session
docker ps	Confirm that you do not need to use sudo with a docker command

1.3 Install docker compose

Install docker compose.

```
sudo apt-get install docker-compose-v2
docker compose version
```

> At this link, you can see the most commonly used Docker Compose commands: Docker compose commands

Step 2: Install Soffid 4

2.1 Test connectivity

Test the connectivity with the Soffid 4 repository pulling an image (¡Do not use sudo with docker, it does not work!).

```
docker pull "europe-docker.pkg.dev/soffid-docker-images/private/iam-console:4.0.0"
```



2.2 Create the directory and file structure

Create a the new file for the docker compose with this directory structure.

```
cd
mkdir lab
cd lab
mkdir soffid4
cd soffid4
touch docker-compose.yaml
```

2.3 Configure the docker-compose.yaml

Edit the docker-compose.yaml file, you can use vim.

> At this link, you can see the How to use vim

```
sudo vim docker-compose.yaml
```

Use this content for the docker-compose.yaml file.

> Change the XXXX password and YYYY password for your values.

```
services:

  mariadb:
```

```
    image: mariadb:11.4
    environment:
      MYSQL_ROOT_PASSWORD: XXXX
      MYSQL_DATABASE: soffid
      MYSQL_USER: soffid
      MYSQL_PASSWORD: YYYY
    healthcheck:
      test: "/usr/bin/mariadb --user=root --password=XXXX --execute \"SHOW DATABASES;\""
      interval: 2s
      timeout: 20s
      retries: 10
    command: --max_allowed_packet=128M --innodb_log_file_size=256M --character-set-server=utf8mb4 --
collation-server=utf8mb4_general_ci
    ports:
      - "3306:3306"
    networks:
      - network
    volumes:
      - mariadb_data:/var/lib/mysql

  console:
    image: europe-docker.pkg.dev/soffid-docker-images/private/iam-console:4.0.58
    environment:
      DB_URL: jdbc:mariadb://mariadb/soffid
      DB_USER: soffid
      DB_PASSWORD: YYYY
      JAVA_OPT: -Xmx4096m
    ports:
      - 8080:8080
      - 8443:8443
    networks:
    - network
    healthcheck:
      test: bash -c "(echo 'GET /soffid/anonymous/logo.svg HTTP/1.1' >&0; echo >&0; cat >&2;) <>
/dev/tcp/localhost/8080"
      interval: 10s
      timeout: 20s
      retries: 10
      start_period: 40s
    volumes:
```

```
      - console_trust:/opt/soffid/iam-console-4/trustedcerts
      - console_conf:/opt/soffid/iam-console-4/conf
      - console_index:/opt/soffid/iam-console-4/index
    depends_on:
      mariadb:
        condition: service_started

  syncserver:
    image: europe-docker.pkg.dev/soffid-docker-images/private/iam-sync:4.0.35
    hostname: syncserver
    environment:
      SOFFID_PORT: 1760
      SOFFID_HOSTNAME: syncserver.network
      SOFFID_MAIN: yes
      DB_URL: jdbc:mysql://mariadb/soffid
      DB_USER: soffid
      DB_PASSWORD: YYYY
    ports:
      - 1760:1760
      - 1443:1443
    networks:
      - network
    volumes:
      - sync_conf:/opt/soffid/iam-sync/conf
    depends_on:
      mariadb:
        condition: service_started

networks:
  network:
    name: network
    driver: bridge

volumes:
  mariadb_data:
    name: soffid4_mariadbdata
  console_trust:
    name: soffid4_console_trustedcerts
  console_conf:
    name: soffid4_console_conf
```

```
  console_index:
    name: soffid4_console_index
  sync_conf:
    name: soffid4_sync_conf
```

2.4 Generate the containers

Generate the containers.

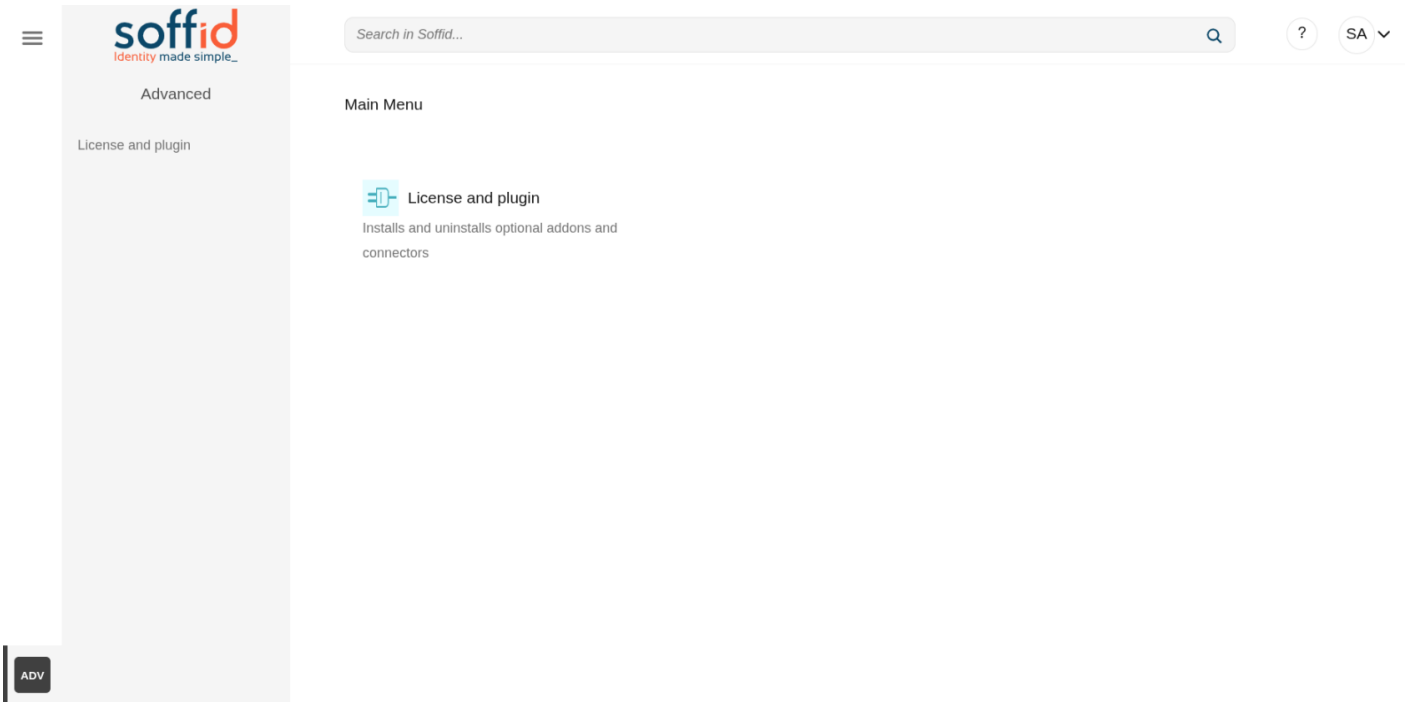
```
docker compose up -d
```

2.5 Access to the Console

Follow these steps:

- Go to **login** page: http://localhost:8080
- We have to **wait** until the login page will be prompted (it takes several minutes).
- Accept the **Update** button.
- User: **admin** / password: **changeit** (temporal for 24 hours).
- Fill the **new password** and save it to use it later!

You will now see this page.



Step 3: Configure SSL access

To correctly validate the new license, the Soffid Console must be SSL-enabled, it has to be open with the https protocol.

3.1 Publish the domains

If you have a local environment, create new entries in:

- Linux **/etc/hosts**
- Windows **C:\Windows\System32\drivers\etc\hosts**

```
# Soffid 4 local
127.0.0.1 console.soffid4.local
127.0.0.1 syncserver.soffid4.local
```

3.2 Generate a self-signed certificate (pfx)

Generate a self-signed certificate (pfx).

> Use **12345678** for all requiered passwords.

Generate a private key.

```
sudo openssl genrsa -aes256 -out console.soffid4.local.key
```

Generate a pem certificate.

> When you run the command, the prompt will ask for the **CN (Common Name)** attribute; use **console.soffid4.local**

```
sudo openssl req -x509 -days 1000 -new -key console.soffid4.local.key -out console.soffid4.local.pem
```

Generate a pfx (PKCS12).

```
sudo openssl pkcs12 -export -in console.soffid4.local.pem -inkey console.soffid4.local.key -name
"console.soffid4.local" -out console.soffid4.local.pfx
```

3.3 Generate a jks file

Copy the pfx file in the console container.

```
sudo docker compose cp console.soffid4.local.pfx console:/opt/soffid/iam-console-4/trustedcerts
```

Enter the container.

```
docker compose exec -it console bash
```

Generate the jks file

```
cd /opt/soffid/iam-console-4/trustedcerts/
```

> Change the password **12345678** if you have used a different one before

```
keytool -v -importkeystore \
  -srckeystore /opt/soffid/iam-console-4/trustedcerts/console.soffid4.local.pfx \
  -srcstoretype PKCS12 \
  -destkeystore /opt/soffid/iam-console-4/trustedcerts/console.soffid4.local.jks \
  -deststoretype JKS \
  -destkeypass 12345678 -srcstorepass 12345678 -deststorepass 12345678
```

Confirm that we are able to **open** the file and that the **alias** is correct.

```
keytool -v -list -keystore console.soffid4.local.jks
```

```
root@6b2044601352:/opt/soffid/iam-console-4/trustedcerts# keytool -v -list -keystore console.soffid4.local.jks
Enter keystore password:
Keystore type: JKS
Keystore provider: SUN

Your keystore contains 1 entry

Alias name: console.soffid4.local
```

3.4 Configure the SSL port

Configure the **server.xml** file.

```
cd /opt/soffid/iam-console-4/conf
apt-get update
apt-get install vim
vim server.xml
```

Add this **configuration**.

```
<Connector
  port="8443"
  protocol="org.apache.coyote.http11.Http11NioProtocol"
```

```
    maxThreads="150"
    SSLEnabled="true">
    <SSLHostConfig
        protocols="TLSv1.3">
        <Certificate
            certificateKeystoreFile="trustedcerts/console.soffid4.local.jks"
            certificateKeystorePassword="12345678"
            certificateKeyAlias="console.soffid4.local"
            type="RSA"
            xpoweredBy="false"
            server="Apache TomEE" />
    </SSLHostConfig>
</Connector>
```

> Port **8443** has already been configured in the step 2.3.

Exit the container and restart the Console.

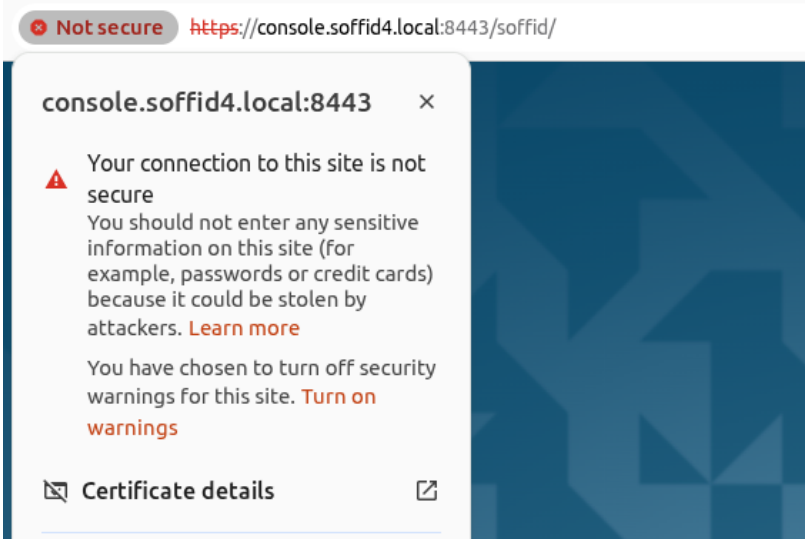
```
exit
docker compose restart console
```

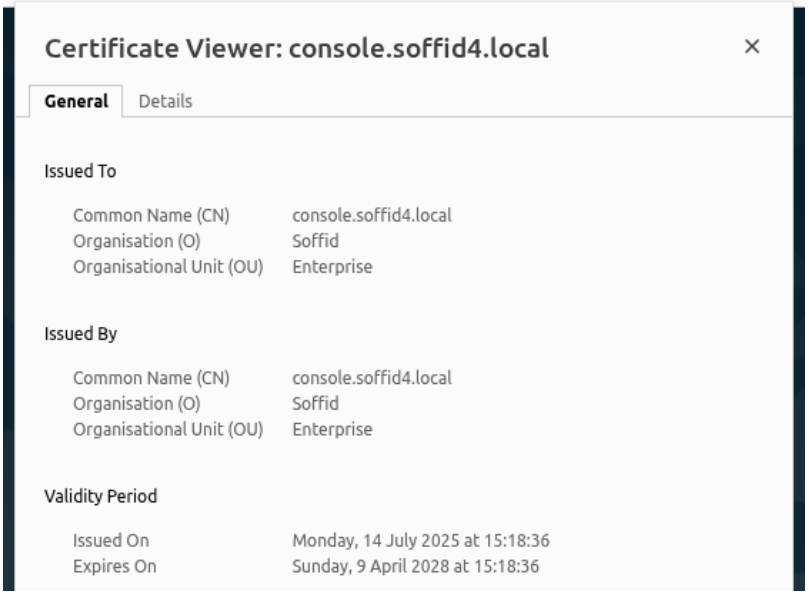
3.5 Access to Console with SSL

Connect to the new URL:

- https://console.soffid4.local:8443

Confirm the SSL: browser > Not secure > Certificate details





Step 4: Apply the license

When accessing the Soffid Console for the first time, you will need to apply a licence that the Soffid team will have created for you beforehand.

> For more information, check the License and plugin page.

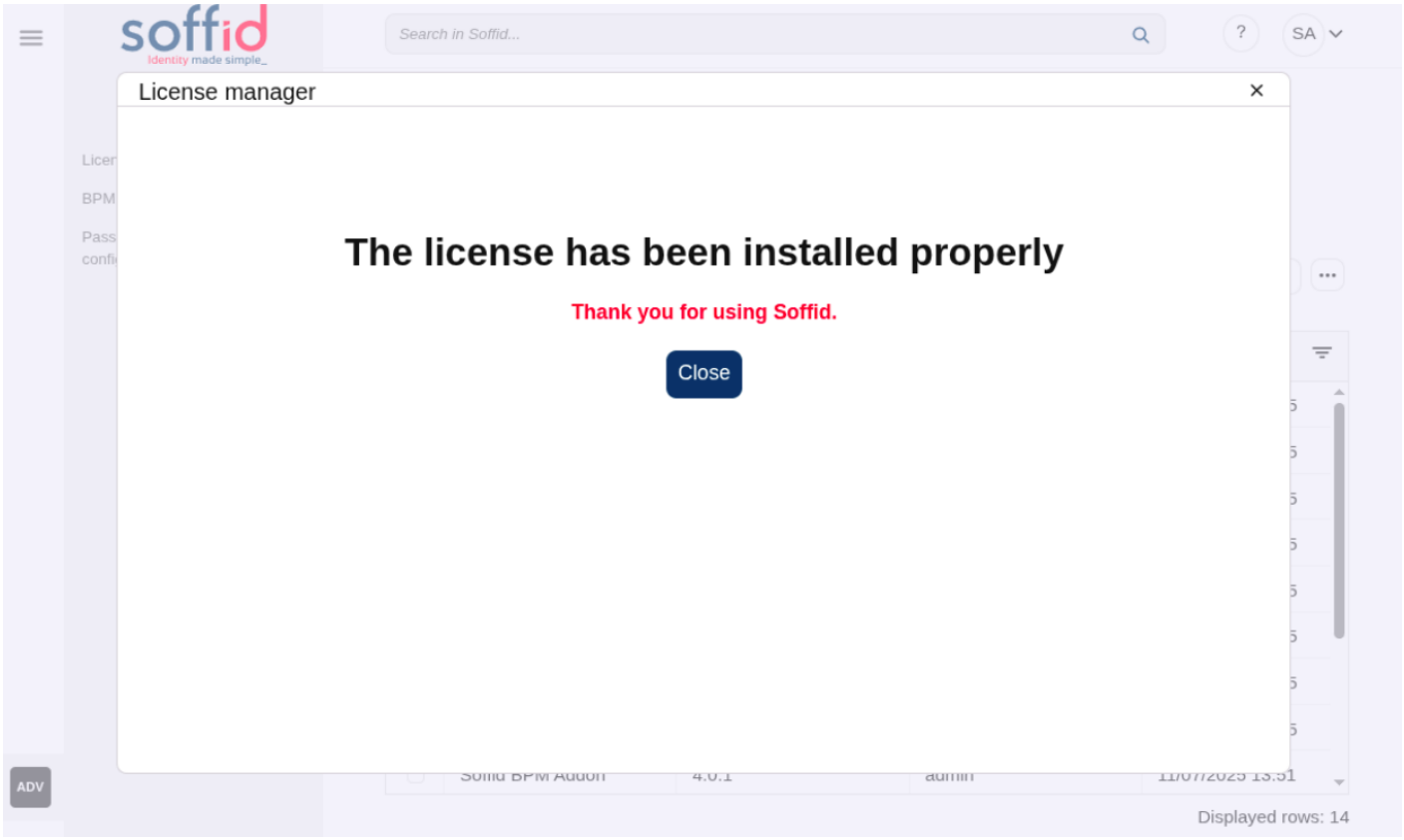
Step 4.1 Login with the Soffid account

To apply the license follow these steps:

- **Log** into the Soffid **Console**
- Go to the "**License and plugin**" page
- You will not have an active license
- Click the "**License manager**" button
- Log in with your **Soffid account** received from Soffid

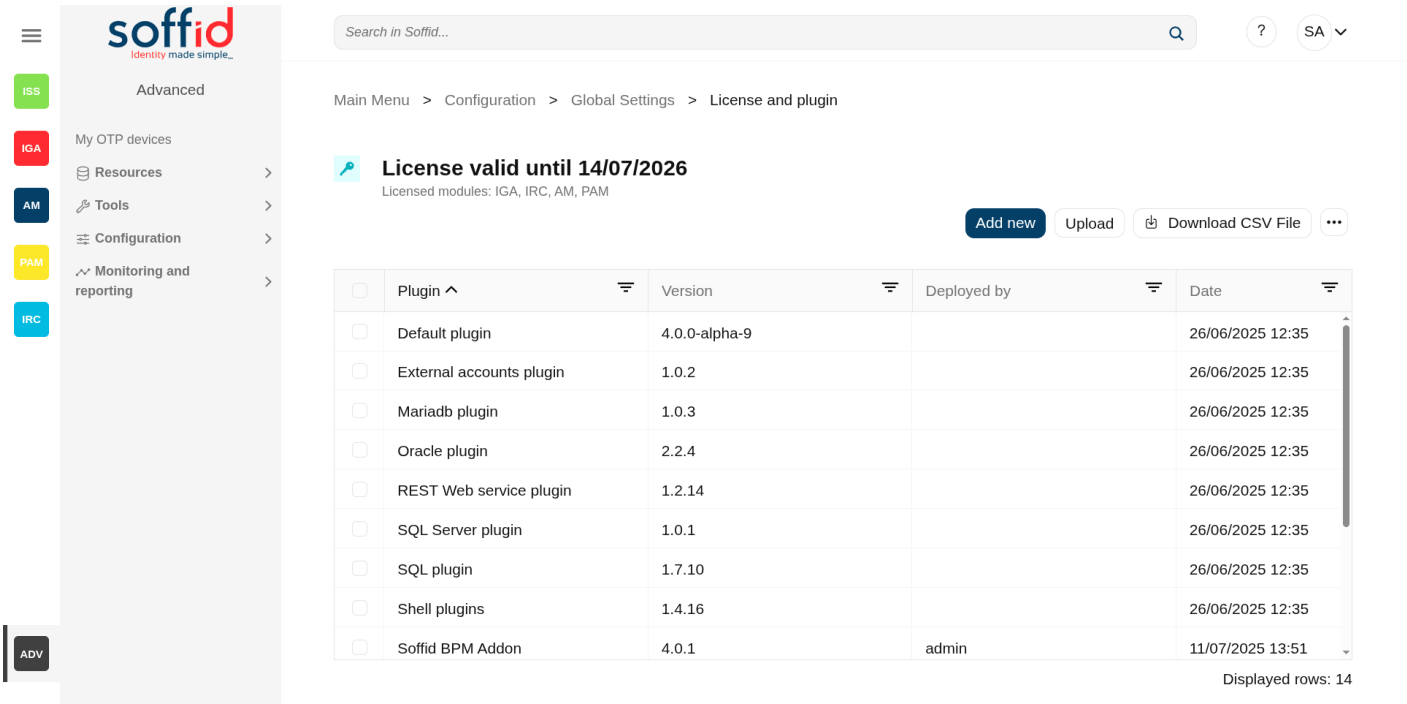
Step 4.2 Apply license

- Select your new **license**
- Accept the **conditions**
- **Allow** "Access other apps and services on this device"
- **Close**. Finally you will have an active license and access to all pages



Step 4.3 Welcome to Soffid 4!

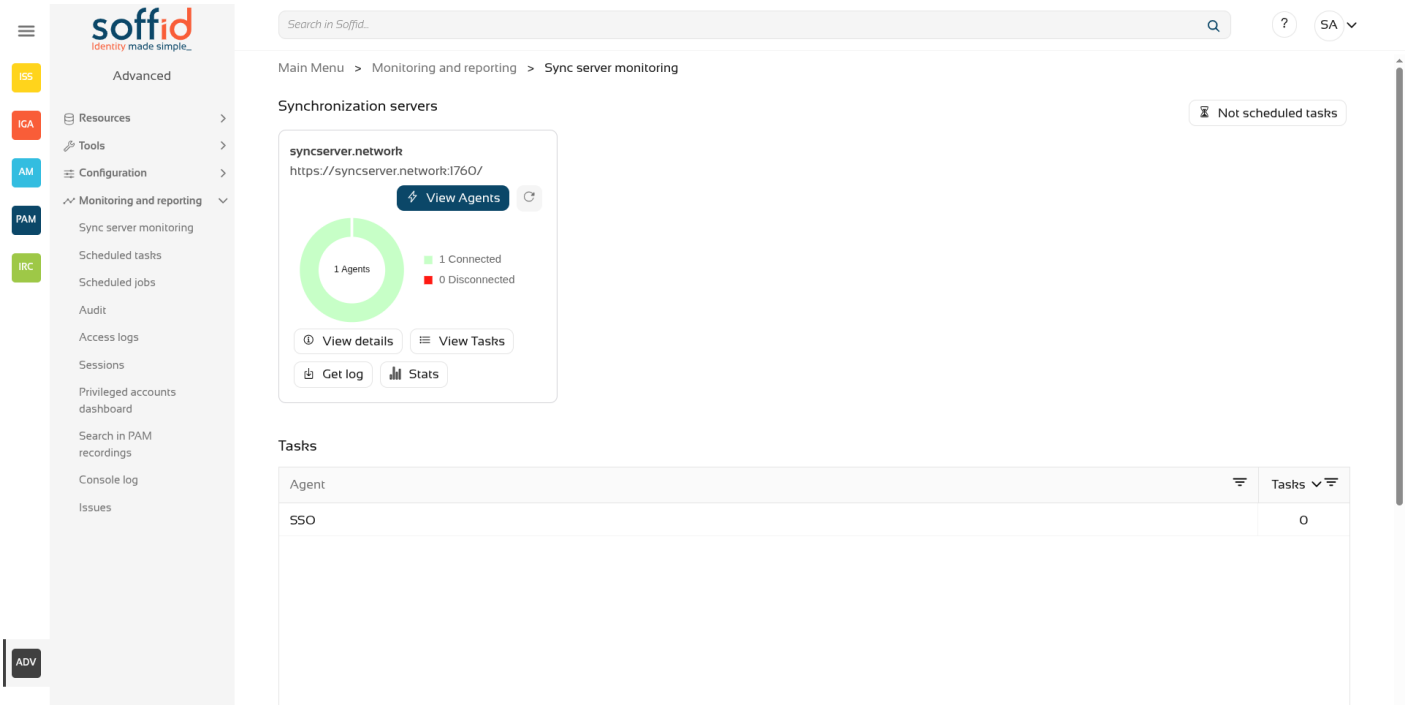
You will now be able to access all of Soffid’s features.



Step 4.4 Check the syncsever

To check if the syncserver is active:

- Go to the "**Sync server monitoring**" page
- If the syncserver is not off, it is running



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