

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
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-plugin
docker compose version
```

Step 2: Install Soffid 4

At this link, you can see the most commonly used Docker Compose commands: [Docker compose commands](#)

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"
```

```
ageLabert@PF5N7CGR: ~$ docker pull "europe-docker.pkg.dev/soffid-docker-images/private/iam-console:4.0.0"
4.0.0: Pulling from soffid-docker-images/private/iam-console
4b3ffd8ccb52: Downloading [=====>] 12.58MB/29.72MB
e5868dada7bd: Download complete
fc7745adf680: Downloading [=====] 28.31MB/136.2MB
68bef0a52c4f: Downloading [====] 10.49MB/201.8MB
90ad0ed8a9d0: Download complete
2aefc472e74f: Download complete
a48cfeae49c: Download complete
da44f06f1ef8: Download complete
67a7f773fa5b: Downloading [====] 13.63MB/201.8MB
85e3c00580f5: Download complete
d63601c45120: Download complete
1f412cfb11ee: Download complete
```

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

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.

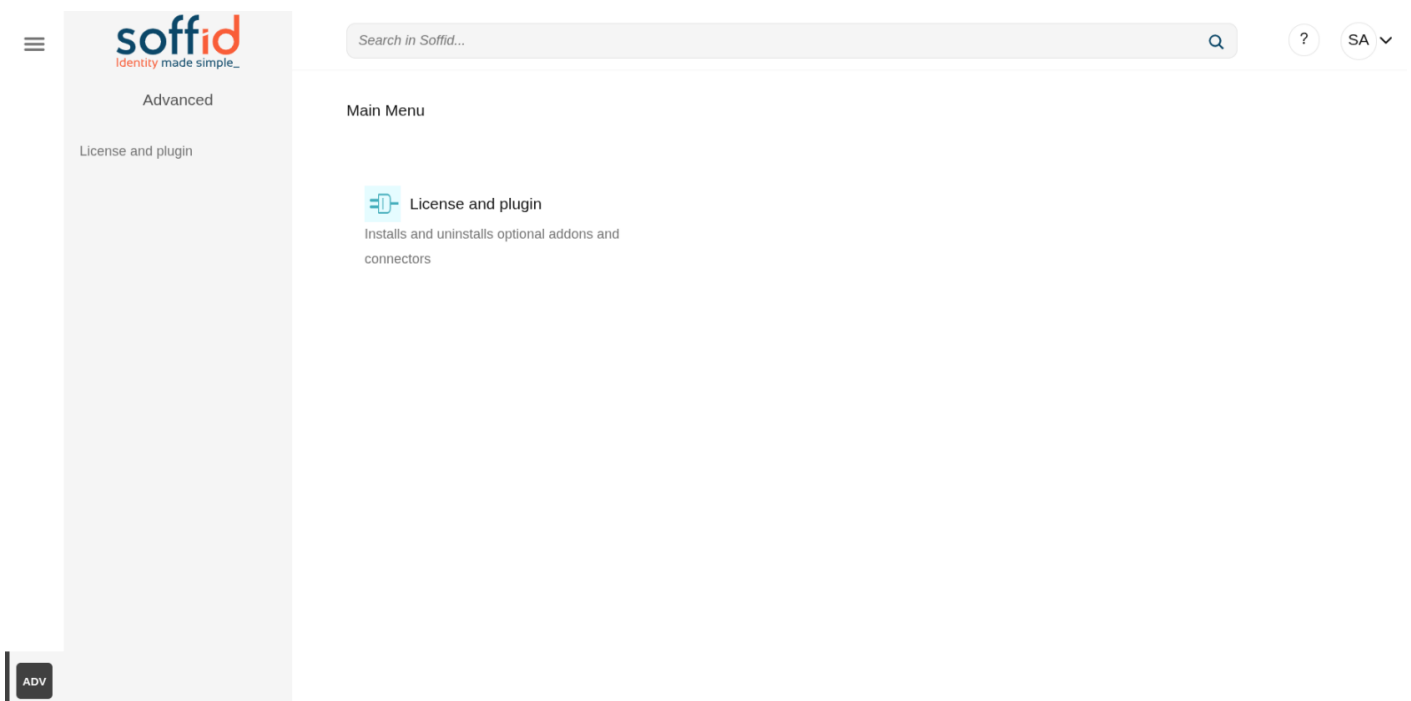
```
docker compose up -d
```

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.
- 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 required passwords.

Generate a private key.

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

Generate a certificate.

```
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.

```
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/
```

```
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 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.

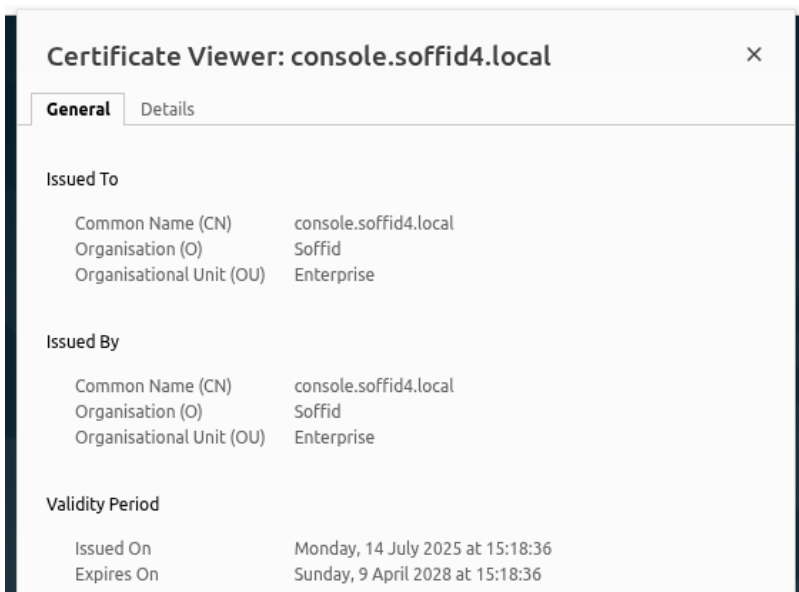
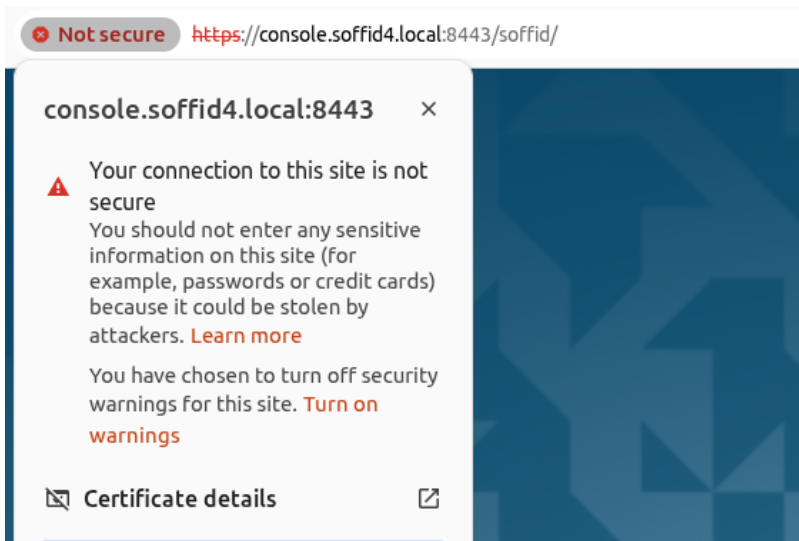
```
exit
docker compose restart console
```

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.

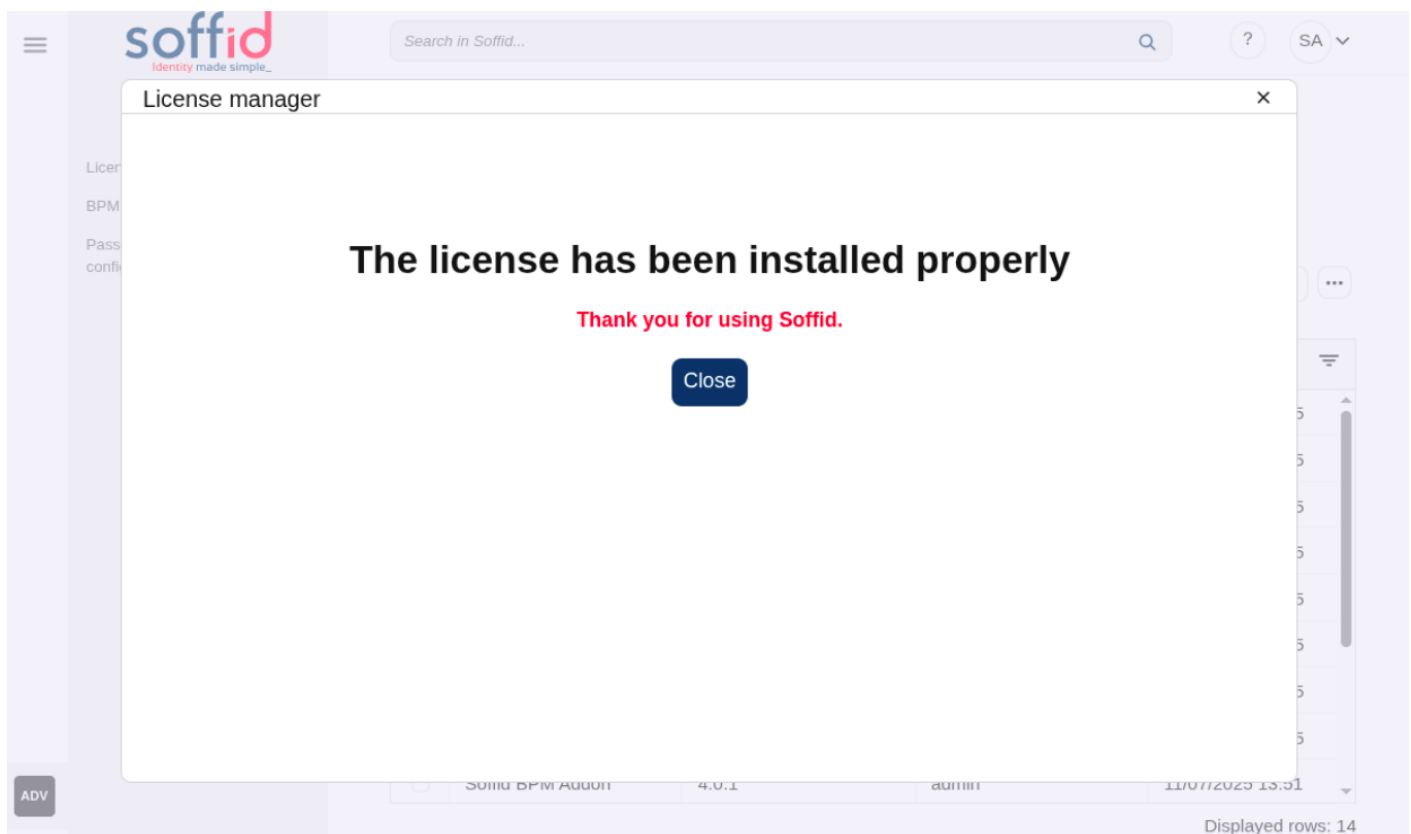
Step 4.1 Login with the Soffid account

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 "**Manage license**" button
- Log in with your **Soffid account** received from Soffid

Step 4.2 Apply license

- Select your new **license**
- Accept the **conditions**
- 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.

The screenshot displays the Soffid 4.0 user interface. On the left is a navigation sidebar with the Soffid logo and the tagline "Identity made simple...". The sidebar contains several menu items: ISS (Advanced), IGA (My OTP devices), AM (Resources), AM (Tools), PAM (Configuration), and IRC (Monitoring and reporting). At the bottom of the sidebar is an "ADV" button. The main content area features a search bar at the top with the text "Search in Soffid...". Below the search bar is a breadcrumb trail: "Main Menu > Configuration > Global Settings > License and plugin". The main heading is "License valid until 14/07/2026", with a sub-heading "Licensed modules: IGA, IRC, AM, PAM". To the right of the heading are three buttons: "Add new", "Upload", and "Download CSV File". Below this is a table with the following columns: Plugin, Version, Deployed by, and Date. The table contains 14 rows of plugin data. At the bottom right of the table, it says "Displayed rows: 14".

Plugin ^	Version	Deployed by	Date
<input type="checkbox"/> Default plugin	4.0.0-alpha-9		26/06/2025 12:35
<input type="checkbox"/> External accounts plugin	1.0.2		26/06/2025 12:35
<input type="checkbox"/> Mariadb plugin	1.0.3		26/06/2025 12:35
<input type="checkbox"/> Oracle plugin	2.2.4		26/06/2025 12:35
<input type="checkbox"/> REST Web service plugin	1.2.14		26/06/2025 12:35
<input type="checkbox"/> SQL Server plugin	1.0.1		26/06/2025 12:35
<input type="checkbox"/> SQL plugin	1.7.10		26/06/2025 12:35
<input type="checkbox"/> Shell plugins	1.4.16		26/06/2025 12:35
<input type="checkbox"/> Soffid BPM Addon	4.0.1	admin	11/07/2025 13:51

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