Installing Sync server

Guide to install Sync server using Docker.

Prerequisites

Soffid IAM sync server requires the following requirements:

- Supported database installed
- Soffid Console Installed

Repositories

Soffid 3 uses the public Docker Hub: https://hub.docker.com/r/soffid/iam-console/

Soffid 4 uses the Google Cloud Artifact Registry, contact to Soffid when you need access to it.

Video Tutorial

Linux

https://www.youtube.com/embed/NHBvdzDWiWA

Installation

Install first Sync server

To configure the first IAM Sync server, the following environment variables can be set for the first server:

Variable	Description	Example
DB_URL	JDBC URL	jdbc:mariadb://dbcontainer/soffid
DB_USER	Database user	Soffid
DB_PASSWORD	Database password	5uper5ecret
SOFFID_HOSTNAME	The hostname used to access the sync server	syncserver01.soffid.com
SOFFID_PORT	TCP port used for incoming connections	760
SOFFID_MAIN	Set to yes for the first sync server, no for the next ones	**yes**

Additional parameters to configure the database connections. Allows you to establish the min and the max of database connections:

Variable	Description	Example
DBPOOL_MIN_IDLE	The minimum number of connections should be kept in the pool at all times.	1 or 2
DBPOOL_MAX_IDLE	The maximum number of connections should be kept in the pool at all times.	between 10 and 15
DBPOOL_INITIAL	The number of connections will be established when the connection pool is started.	3 or 4
DBPOOL_MAX	The maximum number of active connections that can be allocated. If no value is indicated, the default value is 30. The transaction fails if the maximum connections are reached within 30 seconds and no connection is released.	25
DBPOOL_MAX_IDLE_TIME	Number of seconds that a connection to a DB that is not in use is maintained. Available since Sync Server version 3.5.4.3	3600

Install next Sync servers

To configure the next sync servers, the following environment variables can be set:

Variable	Description	Example
SOFFID_SERVER	First sync server url	https://syncserver01.soffid.com:1760
SOFFID_USER	Soffid user to join the security domain. If you are working in a tenant, the user of the tenant.	admin
SOFFID_PASS	Soffid user password. If you are working in a tenant, the user password of the tenant.	changeit
SOFFID_HOSTNAME	The host name used to access to the sync server	syncserver.soffid.com
SOFFID_PORT	TCP port used for incomming connections	760
SOFFID_TENANT	Tenant name	master
SOFFID_MAIN	Set to yes for the first sync server, no for the next ones	**no**

Install Sync server in a private network

To configure a sync server in a private network, not directly accessible from the main sync server, the following environment variables can be set:

Variable	Description	Example
SOFFID_SERVER	First sync server url	https://syncserver01.soffid.com:1760
SOFFID_USER	Soffid user to join the security domain	admin
SOFFID_PASS	Soffid user password	changeit
SOFFID_HOSTNAME	The host name used to access to the sync server	syncserver.soffid.com
SOFFID_TENANT	Tenant name	master
SOFFID_MAIN	Set to yes for the first sync server, no for the next ones	**no**
SOFFID_REMOTE	Flag to enable cloud protocol	**yes**

You can use this configuration when the main sync server is located in the cloud.

The following volumes are defined by default

Volume	Usage
/opt/soffid/iam-sync/conf	Configuration files, including private keys and certificates

Command

Here you have a sample command to start a docker container running IAM sync server. Mind to specify the port number to expose the sync server docker to the outside world. It is not needed when using the cloud connectivity:

```
docker run -d \
  -e DB_URL=jdbc:mysql://mariadb-service/soffid \
  -e DB_USER=soffid \
  -e DB_PASSWORD=soffid \
  -e SOFFID_PORT=1760 \
  -e SOFFID_HOSTNAME=iam-sync.soffidnet \
  -e SOFFID_MAIN=yes \
  --name=iam-sync \
  --publish 1760:1760 \
  --network=soffidnet \
  soffid/iam-sync:latest
```

To see sync server log file, execute:

```
docker logs -f iam-sync
```

You can also view the log files inside the container. To do this, first enter the container, then you should find the log files in the **/var/log/soffid/** directory.

```
root@soffid:~# docker exec -it iam-sync /bin/bash
root@e1a90ff25d99:/# less /var/log/soffid/syncserver.log
```

> Now you can connect to the IAM console http://localhost:8080/soffid and chek if Console and Syncserver are connected.

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