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# Installing Sync server

Guide to install Sync server using Docker.

There is a public docker image at docker hub: <https://hub.docker.com/r/soffid/iam-sync>

## Prerequisites

Soffid IAM sync server requires the following requirements:

- [Supported database installed](#)
- [Soffid Console Installed](#)

## 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  | Super5ecret             |
| SOFFID_HOSTNAME    | The hostname used to access the sync server                | syncserver01.soffid.com |
| SOFFID_PORT        | TCP port used for incoming connections                     | 760                     |
| <b>SOFFID_MAIN</b> | Set to yes for the first sync server, no for the next ones | <b>yes</b>              |

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.<br>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.<br>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 incoming connections   | 760                   |
| SOFFID_TENANT      | Tenant name  | master                |
| <b>SOFFID_MAIN</b> | Set to yes for the first sync server, no for the next ones                                       | <b>no</b>             |

## 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                               |
| <b>SOFFID_MAIN</b>   | Set to yes for the first sync server, no for the next ones | <b>no</b>                            |
| <b>SOFFID_REMOTE</b> | Flag to enable cloud protocol                              | <b>yes</b>                           |

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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