# How to install Soffid LDAP?

# Installation with docker

## Prerequisites

To install **Soffid LDAP**, you must install Docker. Despite Docker desktop can be used for testing purposes, Docker container runtime usage is recommended.

## Installation

To start Soffid LDAP, execute:

```
docker volume create ldapconf
docker volume create ldapdata
docker run --name soffidldap -p 1389:389 -v ldapconf:/etc/ldap/slapd.d -v ldapdata:/var/lib/ldap -d -e
SOFFID_SERVER=https://<SYNCSERVERNAME>:760 -e SOFFID_AGENT=<SOFFID_AGENT> -e
USER=<ADMIN_USERNAME> -e PASSWORD=<ADMIN_PASSWORD> -e DN=<YOUR_BASE_DN>
soffid/soffidldap:latest
```

**Image**

```
gbuades@gbuades-ThinkPad-T590:~$ docker run --name soffidldap -p 1389:389 -v ldapconf:/etc/ldap/slapd.d -v ldapdata:/var/lib/ldap -e S
FFID_SERVER=https://localhost:760 -e SOFFID_AGENT=ldap -e USER=cn=admin -e PASSWORD=SuperSecret -e DN=dc=soffid,dc=com soffid/soffidld
p
Performing initial setup
Creating director : dc=soffid,dc=com
Administrator user: cn=admin,dc=soffid,dc=com
Initial password  : SuperSecret
Soffid server     : https://localhost:760
Soffid agent      : ldap
Creating configuration
Register MDB engine
Register Soffid Overlay
Starting Service
Creating database
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
adding new entry "olcDatabase=mdb,cn=config"

modifying entry "olcDatabase={-1}frontend,cn=config"

Install Soffid overlay
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
*** soffid: Initialised with syncserver: https://soffid.bubu.lab:760
*** soffid: Initialised with syncserver: https://soffid.bubu.lab:760
*** soffid: Initialised with syncserver: https://soffid.bubu.lab:760
adding new entry "olcOverlay=soffid,olcDatabase={1}mdb,cn=config"

Install MemberOf overlay
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
adding new entry "cn=module,cn=config"

adding new entry "olcOverlay=memberof,olcDatabase={1}mdb,cn=config"

adding new entry "olcOverlay=refint,olcDatabase={1}mdb,cn=config"

Creating root DC object
adding new entry "dc=soffid,dc=com"

DONE
```

Now, you can connect to the LDAP Server using the user name and password used to create the docker instance.

# Docker commands

## Stop the service

```
docker stop soffidldap
```

## Start the service

```
docker start soffidldap
```

## Remove the service

```
docker rm soffidldap
```

# Docker Volumes

- The initial configuration files are located in the **ldapconf volume**, usually in /var/lib/docker/volumes/ldapconf/_data
- The initial data files are located in the **ldapdata volume**, usually in /var/lib/docker/volumes/ldapdata/_data

# Installation with docker compose

## Prerequisites

To install **Soffid LDAP** using **Docker Compose**, you must first have installed it.

## Installation

Create a new **folder** or use the one in your current environment; you need to add the following service to the **docker-compose.yaml** file.

> Remember to enter the correct values for variables of type **<VALUE>**.

```
services:

  soffidldap:
    image: soffid/soffidldap:latest
    environment:
      SOFFID_SERVER: https://<SYNCSERVERNAME>:<PORT>
      SOFFID_AGENT: <SOFFID_AGENT>
      USER: <ADMIN_USERNAME>
      PASSWORD: <ADMIN_PASSWORD>
      DN: <YOUR_BASE_DN>
    networks:
      - network
    ports:
      - 1389:389
    volumes:
      - ldapconf:/etc/ldap/slapd.d
      - ldapdata:/var/lib/ldap

networks:
```

```
  network:
    name: netversion4
    driver: bridge

volumes:

  ldapconf:
    name: soffidldap_ldapconf
  ldapdata:
    name: soffidldap_ldapdata
```

This is an example of a configuration.

```
soffidldap:
  image: soffid/soffidldap:latest
  environment:
    SOFFID_SERVER: https://sync-server-version4:1768
    SOFFID_AGENT: SoffidLDAP_dockerCompose
    USER: cn=admin
    PASSWORD: Soffid4.
    DN: dc=soffid,dc=local
  networks:
    - network
  ports:
    - 1390:389
  volumes:
    - ldapconf:/etc/ldap/slapd.d
    - ldapdata:/var/lib/ldap
```

We deploy the service.

```
docker compose up -d
```

# Testing

Now, you can connect to the **LDAP** Server using the **user** and **password** used to create the docker service.

> You can use a free tool such as **Apache Directory Studio**.

# Docker compose commands

>

> If you need further information about Docker Compose, you can visit the Docker Compose commands page

# Docker Volumes

- The initial configuration files are located in the **ldapconf volume**, usually in /var/lib/docker/volumes/ldapconf/_data
- The initial data files are located in the **ldapdata volume**, usually in /var/lib/docker/volumes/ldapdata/_data

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