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# How to install Soffid LDAP?

## Installation

## 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> 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/soffidl
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`

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