

# Supernote Private Cloud Manual

## Deployment Method

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### Supernote Private Cloud Container Port Usage Guide

- Container Port 8080: This port primarily used for the supernote-service to provide web services,with the web services built using Nginx
- Container Port 18072: This port is primarily used for automatic synchronization with supernote-service
- Host Port Mapping 19072: This port primarily used to map the web service port of supernote-service to the host where you currently deploy your Supernote Private Cloud. Through this port mapping,you can access the Supernote service web management interface on the host machine,enabling browser-based management and configuration
- Host Port Mapping 18072: This port primarily used to map the automatic synchronization service of supernote-service to your current host. Through this port, you can utilize the automatic synchronization feature on your supernote device

### Container Component Description

- mariadb: Deploy using the officiaal Mariadb 10.6.24 image to store user registration,file synchronization,and other information
- redis: Deploy using the official Redis 7.4.7 image for storing login credentials and other data. To prevent data loss, we recommend persisting the Redis data directory to local storage.
- notelib: The officiaal Supernote note conversion program,built on Ubuntu 24.04
- supernote-service: Supernote Private Cloud Program,built on Ubuntu 24.04

### Create the installation directory

example:

```
mkdir -pv /data/supernote
```

### Download database file

example:

```
cd /data/supernote && curl -O https://supernote-private-cloud.supernote.com/cloud/supernotedb.sql
```

### create data persistence path

example:

```
mkdir -pv {sndata, supernote_data}
```

### create a custom network

example:

```
docker network create supernote-net
```

## Install the database service

`MYSQL_ROOT_PASSWORD`: Please set the variable value to your database administrator password.

`MYSQL_DATABASE`: Please keep the default value (supernotedb).

`MYSQL_USER`: Please configure the user for the private cloud application to connect to the database.

`MYSQL_PASSWORD`: Please set the user password for the private cloud application to connect to the database.

- Run the following command to quickly build a database service for Supernote Private Cloud.

```
docker run -d \  
--name mariadb \  
--network supernote-net \  
-e MYSQL_ROOT_PASSWORD="Set database administrator password" \  
-e MYSQL_DATABASE=supernotedb \  
-e MYSQL_USER="Set up the database user for the Supernote Private Cloud program" \  
\  
-e MYSQL_PASSWORD="set the database user password for the Supernote Private Cloud program" \  
-v "Local persistence directory for database data":/var/lib/mysql \  
-v $(pwd)/supernotedb.sql:/docker-entrypoint-initdb.d/supernotedb.sql:ro \  
--restart=unless-stopped \  
mariadb:10.6.24
```

## Install the Redis service

`--name`: Please set your Redis container name.

`--requirepass ''`: Please set a password for the Supernote Private Cloud application to connect to the Redis service.

`-v`: Set the local persistence directory

- Run the following command to quickly set up a Redis service for the Supernote Private Cloud application. Please note to modify `--requirepass` 'Set Redis Password'.

```
docker run -d \  
--name "Please set your Redis container name." \  
--network supernote-net \  
-v "Local Persistence Directory for Redis Data":/data \  
--restart=unless-stopped \  
redis:7.4.7 \  
redis-server --requirepass 'Set Redis Password' --dir /data --dbfilename dump.rdb
```

## Install the Notelib Service

- Run the following command to quickly build a Supernote Private Cloud note conversion program.

```
docker run -d --name notelib --network supernote-net  
docker.io/supernote/notelib:6.9.3
```

## Install the Supernote Private Cloud program

`-v $(pwd)/sndata/recycle:/home/supernote/recycle:` Set the local persistent path for your Recycle Bin

`-v $(pwd)/supernote_data:/home/supernote/data:` Set the local persistent path for your notes and synchronized files.

`-v $(pwd)/sndata/logs/cloud:` Set the local persistence path for frontend program logs

`-v $(pwd)/sndata/logs/app:/home/supernote/logs:` Set the local persistence path for private cloud service logs

`-v $(pwd)/sndata/logs/web:/var/log/nginx:` Set the local persistence path for web service logs

`-v $(pwd)/sndata/convert:/home/supernote/convert:` Set the local persistent path for notes after rotation

`MYSQL_DATABASE:` Please keep the default value (supernotedb).

`MYSQL_USER:` The database user you set for the Supernote Private Cloud program during database service installation. Please refer to the `MYSQL_USER` variable in the "Install the database service" section.

`MYSQL_PASSWORD:` The database user password you set for the Supernote Private Cloud program during database service installation. Please refer to the `MYSQL_PASSWORD` in the "Install the database service" section.

`REDIS_HOST:` Please enter the Redis container name to configure the supernote-service program to connect to the Redis service.

`REDIS_PORT:` Please enter the Redis container service port to configure the supernote-service program to connect to the Redis service.

`REDIS_PASSWORD:` The Redis password you set for the Supernote Private Cloud program during Redis service installation. Please refer to the `--requirepass` option in the "Install the Redis service" section.

`-p 18072:18072:` This port primarily used to map the automatic synchronization service of supernote-service to your current host. Through this port, you can utilize the automatic synchronization feature on your supernote device

`-p "Host Port Mapping":8080:` Supernote Private Cloud Web Management port

`/etc/localtime:/etc/localtime:ro:` Set the local time zone for the Supernote Private Cloud program.

**Use the following command to quickly run a Supernote Private Cloud instance. Please note that you should modify the persistence settings and variable information above to match your own configuration values.**

```
docker run -d \  
  --name supernote-service \  
  --network supernote-net \  
  -p 18072:18072 \  
  -p "Host Port Mapping":8080 \  
  -v $(pwd)/sndata/recycle:/home/supernote/recycle \  
  -v $(pwd)/supernote_data:/home/supernote/data \  
  -v $(pwd)/sndata/logs/cloud:/home/supernote/cloud/logs \  
  -v $(pwd)/sndata/logs/app:/home/supernote/logs
```

```
-v $(pwd)/sndata/logs/web:/var/log/nginx \  
-v $(pwd)/sndata/convert:/home/supernote/convert \  
-v /etc/localtime:/etc/localtime:ro \  
-e MYSQL_DATABASE=supernotedb \  
-e MYSQL_USER="Enter the private cloud database user you set when creating the  
database container." \  
-e MYSQL_PASSWORD="Enter the private cloud database user password you set when  
creating the database container." \  
-e REDIS_HOST="Please set your Redis container name." \  
-e REDIS_PORT="Please configure the port for your Redis container." \  
-e REDIS_PASSWORD="Enter the password you set when creating the Redis  
container." \  
docker.io/supernote/supernote-service:25.11.04
```