

# Bookstack

Bookstack installation

Change port to **6975**

Add in docker-compose: **restart: unless-stopped**

\$docker directory = /home/docker .... etc

Docker-Compose file reference

<https://github.com/solidnerd/docker-bookstack/blob/master/docker-compose.yml>

```
version: '2'

services:
  mysql:
    image: mysql: 8.0
    environment:
      - MYSQL_ROOT_PASSWORD=secret
      - MYSQL_DATABASE=bookstack
      - MYSQL_USER=bookstack
      - MYSQL_PASSWORD=secret
    volumes:
      - mysql-data: /var/lib/mysql
    restart: unless-stopped

  bookstack:
    image: solidnerd/bookstack: 22.10.2
    depends_on:
      - mysql
    environment:
      - DB_HOST=mysql: 3306
      - DB_DATABASE=bookstack
      - DB_USERNAME=bookstack
      - DB_PASSWORD=secret
    #set the APP_ to the URL of bookstack without without a trailing slash
    APP_URL=https://example.com
```

```
- APP_URL=http://xxx.xxxmydomainxxx.duckdns.org
volumes:
- $docker/public-uploads: /var/www/bookstack/public/uploads
- $docker/storage-uploads: /var/www/bookstack/storage/uploads
ports:
- "6975:8080"
restart: unless-stopped
```

**Notice:** The default password for bookstack is

[admin@admin.com](mailto:admin@admin.com)

password

**Permissions:** remember to set write permission on public-uploads folder so users can upload photos.

## Backup and Restore

Files Backup:

```
tar -czvf bookstack-files-backup.tar.gz public-uploads storage-uploads
```

Restore:

```
tar -xvzf bookstack-files-backup.tar.gz
```

Database backup:

```
sudo docker exec bookstack_mysql_1 /usr/bin/mysqldump -u root --password=secret bookstack >
./bookstack/bookstack_db.sql
```

Restore:

```
sudo docker exec -i bookstack_mysql_1 mysql -u root --password=secret bookstack <
/$docker/bookstack/bookstack_db.sql
```

- bookstack\_mysql1 is the container name
- password is secret or the database password

## Reverse Proxy

Use subdomain in proxy manager.

## Backing Up and Restoring with LinuxServer.io container

Due to limits of Oracle Cloud free tier. The only arm image is from linuxserver.io container, and it is different than solidnerd image.

### Docker-Compose file

```
version: "2"
services:
  bookstack:
    image: lscr.io/linuxserver/bookstack
    container_name: bookstack
    environment:
      - PUID=1001
      - PGID=1001
      - APP_URL=https://wiki.xxx.duckdns.org
      - DB_HOST=bookstack_db
      - DB_USER=bookstack
      - DB_PASS=secret
      - DB_DATABASE=bookstackapp
    volumes:
      - /home/ubuntu/bookstack:/config
    ports:
      - 6975:80
    restart: unless-stopped
    depends_on:
      - bookstack_db

  bookstack_db:
    image: lscr.io/linuxserver/mariadb
    container_name: bookstack_db
    environment:
      - PUID=1001
      - PGID=1001
      - MYSQL_ROOT_PASSWORD=secret
      - TZ=Europe/London
      - MYSQL_DATABASE=bookstackapp
      - MYSQL_USER=bookstack
      - MYSQL_PASSWORD=secret
    volumes:
      - /home/ubuntu/bookstack:/config
```

```
restart: unless-stopped
```

Notice: In Oracle cloud free tier, the default ubuntu user is 1001, not 1000. For database name, it is bookstackapp, keep in mind when executing restore command. The folder structure is also different. In the solidnerd container, the images are stored at /public-uploads while in LSIO container it is stored at /www/uploads

## Backing Up (from home PC)

Images

cd into /public-uploads and make a tar archive

```
tar -czvf images.tar.gz images
```

Backup the database

```
sudo docker exec bookstack_mysql_1 /usr/bin/mysqldump -u root --password=secret bookstack > ./bookstack_db.sql
```

Transfer to Oracle Cloud Server

```
scp -i oracle-arm-2.key images.tar.gz bookstack_db.sql  
ubuntu@$IPADDR: /home/ubuntu/bookstack/www/uploads
```

Take in consideration the location where LSIO image stores the images.

## Restore (into Oracle Cloud)

Images (/home/ubuntu/bookstack/www/uploads)

```
tar -xvzf images.tar.gz
```

Database

The image url in the database still refers to old server url, it needs to be changed. The following command replace the subdomain in the sql dump.

```
sed -i 's/wiki.$home.duckdns.org/wiki.$oracle.duckdns.org/g' bookstack_db.sql
```

Restore the database.

```
sudo docker exec -i bookstack_db mysql -u root --password=secret bookstackapp < /home/ubuntu/bookstack/www/uploads/bookstack_db.sql
```

## Crontab

### On Home PC

```
0 23 * * 2,5 /home/karis/bookstack.sh
```

```
#!/bin/bash

cd ~/docker/bookstack/public-uploads #location of bookstack public uploads
tar -czvf images.tar.gz images
sudo docker exec bookstack_mysql_1 /usr/bin/mysqldump -u root --password=secret bookstack >
./bookstack_db.sql
scp -i oracle-arm-2.key images.tar.gz bookstack_db.sql
ubuntu@$ORACLEIP: /home/ubuntu/bookstack/www/uploads
```

Make sure to copy the oracle-arm-2.key to the appropriate location (~/.docker/bookstack/public-uploads)

**Also make sure the permission of oracle-arm-2.key is in correct permission (600). Especially changing the permission of public-uploads folder to allow write access.**

Do a backup sequence in crontab at 11pm every Tuesday and Friday.

### Oracle Cloud Server

```
0 8 * * 3,6 /home/ubuntu/bookstack.sh
```

```
#!/bin/bash

cd ~/bookstack/www/uploads #directory where bookstack files scp from home are located
tar -xvzf images.tar.gz
sed -i 's/wiki.$homeip.duckdns.org/wiki.$oracle.duckdns.org/g' bookstack_db.sql
sudo docker exec -i bookstack_db mysql -u root --password=secret bookstackapp <
/home/ubuntu/bookstack/www/uploads/bookstack_db.sql
```

Restore the sequence after backup, every Wednesday and Saturday at 8am (need to consider the TZ between Vancouver, Edmonton and Toronto, or any the time zone of the remote server)

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