

Wiki

Installation of a wiki with Bookstacks

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Installation

Installation

1. Create a new directory and the necessary files

```
mkdir -p bookstack/config && cd bookstack
touch docker-compose.yml .env
```

2. Edit the `.env` file to include the following:

```
DB_PASSWD=<password> #do not change later on or stuff may break
APP_URL=example.com:6875
PORT=6875
PUID=1000
PGID=1000
```

3. Edit the `docker-compose.yml` to include the following:

```
version: "3"
services:
  bookstack_db:
    restart: unless-stopped
    image: lscr.io/linuxserver/mariadb
    container_name: bookstack_db
    environment:
      - PUID=${PUID}
      - PGID=${PGID}
      - MYSQL_ROOT_PASSWORD=${BOOKSTACK_PASSWD}
      - TZ=${TZ}
      - MYSQL_DATABASE=bookstackapp
      - MYSQL_USER=${BOOKSTACK_USER}
      - MYSQL_PASSWORD=${BOOKSTACK_PASSWD}
    volumes:
      - ./data/bookstack_db_data:/config

  bookstack:
    restart: unless-stopped
```

```
image: lscr.io/linuxserver/bookstack
container_name: bookstack
environment:
  - PUID=${PUID}
  - PGID=${PGID}
  - APP_URL=https://${SITE}
  - DB_HOST=bookstack_db
  - DB_PORT=3306
  - DB_USER=${BOOKSTACK_USER}
  - DB_PASSWORD=${BOOKSTACK_PASSWD}
  - DB_DATABASE=bookstackapp
volumes:
  - ./data/bookstack_app_data:/config
  - ./backup:/backup
ports:
  - 6875:80
labels:
  traefik.enable: "true"
  traefik.http.routers.bookstack.rule: "Host(`${SITE}`)"
  traefik.http.routers.bookstack.entrypoints: websecure
  traefik.http.routers.bookstack.middlewares: secured@file
```

4. Start the container with `docker compose up -d`
5. Go to the `APP-URL` that you specified, e.g. `http://server:6785` and login. The default login is `admin@admin.com` and the password is `password`.
6. Make sure to change email and password after your first login

See Also

- <https://docs.linuxserver.io/images/docker-bookstack>

Backup & Restore

Preparations

1. Make sure to have php installed on your system
2. Get an `API token_id` and `API token_secret` from your user preferences in the webgui
3. Create a directory, where you want to store the backups

```
mkdir backup && cd backup  
mkdir zip md pdf
```

4. Downlaod the `export-books.php` script from github

```
curl https://raw.githubusercontent.com/BookStackApp/api-scripts/main/php-export-all-books/export-books.php > export-books.php
```

5. Edit the `export-books.php` scriprt and enter the needed variables

```
BS_URL=https://bookstack.example.com # Set to be your BookStack base URL  
BS_TOKEN_ID=abc123 # Set to be your API token_id  
BS_TOKEN_SECRET=123abc # Set to be your API token_secret
```

6. Create a file `backup.sh` that specifies the kind of backup and deletes backup older than X days

```
#!/bin/bash  
  
# go to the correct directory  
cd $(dirname "$0")  
  
CURRENTDATE=$(date +%Y-%m-%d_%H-%M-%S)  
  
# Create a new backup using the bookstack-system-cli command  
docker exec -it bookstack /app/www/bookstack-system-cli backup  
/backup/zip/bookstack_$(date +%Y-%m-%d_%H-%M-%S).zip  
  
# create a backup in pdf and md format  
mkdir -p ./pdf/$CURRENTDATE ./md/$CURRENTDATE  
php export-books.php pdf ./pdf/$CURRENTDATE
```

```
php export-books.php markdown ./md/$CURRENTDATE

# delete backups older than 10 days
find ./pdf -maxdepth 1 -mtime +10 -exec rm -r -f {} \;
find ./md -maxdepth 1 -mtime +10 -exec rm -r -f {} \;
find ./zip/*.zip -mtime +10 -exec rm -f {} \;
```

7. Make the added files executable

```
chmod +x export-books.php backup.sh
```

8. Make sure to bindmount your `backup` folder in the volumes section of the bookstack container by adding `- ./backup:/backup`

Backing up

With the above setup, pdf and markdown backups will be found inside the `backups` folder. Inside the zip `backup/zip` folder are the backups of the website.

To start backing up, simply create a cronjob that runs repeatedly. To save the books every day at 3am, simply add the following cronjob `0 3 * * * /path/to/bookstack/backup/backup.sh`

Now simply backup the whole backup folder regularly to a different place and you should be good to go

Restoring

To restore the data simply start a container and run the following command

```
docker exec -it bookstack /app/www/bookstack-system-cli restore backup/<<nameofbackup>>.zip
```

See also:

- <https://gist.github.com/ssddanbrown/3d5dbebc51ac6ca45837d8a030b07b65>
- <https://github.com/BookStackApp/api-scripts/tree/main/php-export-all-books>
- <https://www.bookstackapp.com/docs/admin/backup-restore/>

Troubleshooting

After changing `APP_URL` in the env file, it might be necessary to run the following:

```
docker exec -it bookstack php /app/www/artisan bookstack:update-url <OLD_APP_URL>  
<NEW_APP_URL>
```