

# Bookstack Using Docker Compose

## Creating a Bookstack on localhost

A Bookstack can be easily ran with docker using the default `.env` settings and tested through visiting `localhost` in a web browser. Follow the Docker Installation Instructions and create a docker-compose.yml configuration that matches the format on the [Linuxserver.io Repository \(DockerHub Image\)](#) page. If you've never used Docker before, it's a good idea to check out [Play With Docker](#) - a community project sponsored by Docker.

## Creating a docker-compose.yml

Docker Compose utilizes a docker-compose.yml file to organize and configure the services running on a host using Docker. The docker-compose.yml should look something like the following, grabbed directly from the Linuxserver.io [GitHub Repository](#) for the Docker image we are using below - [linuxserver/bookstack](#).

```
version: "2"
services:
  bookstack:
    image: linuxserver/bookstack
    container_name: bookstack
    environment:
      - PUID=1000
      - PGID=1000
      - DB_HOST=bookstack_db
      - DB_USER=bookstack
      - DB_PASS=<yourdbpass>
      - DB_DATABASE=bookstackapp
    volumes:
      - ./bookstack/./config
    ports:
      - 6875:80
    restart: unless-stopped
```

```
depends_on:
  - bookstack_db
bookstack_db:
  image: linuxserver/mariadb
  container_name: bookstack_db
  environment:
    - PUID=1000
    - PGID=1000
    - MYSQL_ROOT_PASSWORD=<yourdbpass>
    - TZ=Europe/London
    - MYSQL_DATABASE=bookstackapp
    - MYSQL_USER=bookstack
    - MYSQL_PASSWORD=<yourdbpass>
  volumes:
    - ./database:/config
  restart: unless-stopped
```

Be sure to edit this file to change the passwords above before spinning up your container, and pay attention to the path specified within the docker-compose volumes. This should be the path to the data directory which will hold the mounted volumes shared between the Docker Container and its host. It's usually a good idea to send each container to its own directory, which will be created if it doesn't already exist.

For example, If you specify a volume as `./bookstack:/config`, then the `bookstack` directory will be created within the directory of the `docker-compose.yml` that was ran to spin up the service. Docker will then mount the `bookstack` directory to the container's `/config` directory

If you are running a strict firewall or set of iptables, be sure to adjust them accordingly to the ports within the docker-compose.yml. If you are just spinning up a container locally, you shouldn't need to worry about firewall rules since all the traffic will be internal.

The final configuration step is to change `<yourdbpass>` in the `docker-compose.yml` above to your preferred password.

## Starting Our Containers

Now, all we need to do is store this docker-compose.yml file within a directory we wish to administer the container from, and run `docker-compose up -d` to start our services that we have defined. the `-d` flag simply tells docker-compose that we wish to detach the processes from our current terminal session, which prevents us from inheriting the active logs from the services we started. If you want to see these logs as an active feed after you spin up your services, simply run `docker-compose logs -f` to do so.

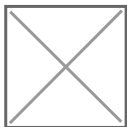
That's it! As long as you have no custom domain configuration and only plan to view this Bookstack instance locally, there is no other configuration to be done on the back end of your test-wiki. You should be able to open your web browser and visit `localhost:6875` to see your Bookstack application.

Run `docker ps` to see a list of containers, and the ports they are running on. This helps to debug network issues when attempting to view our application. If `localhost:6875` does not work, check that your output is appropriate for the use of that port.

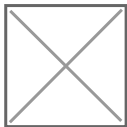
You will need to include the port within the URL to view your BookStack unless you are using NGINX to proxy traffic to the appropriate port

## Testing BookStack

Working from a headless server, but still trying to run containers locally? Run `elinks` `http://localhost:6875` to check if you see the page below



Alternatively, if you are working in a full DE or otherwise using a registered domain name, you can visit the page within your preferred web browser to see the page below



## Troubleshooting

Generally, you should be able to find all relative logs and error messages by running either `docker logs bookstack` or `docker logs bookstack_db`. If you want docker to provide a live feed of logs, you'll need to add the `-f` flag to do so, as in `docker logs bookstack -f`.

In the case of *this* Bookstack instance, we are using https to encrypt the web traffic, which runs over port 443/tcp. So when you visit `knoats.com` in your web browser, I have an NGINX configuration in place to ensure that all traffic is routed through the port `443`, which is decrypted and passed internally to the `localhost` port `0.0.0.0:6875` where our containerized port `80` then serves our web content using NGINX.

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	
PORTS	NAMES				
xxxxxxxxxxxx	linuxserver/bookstack	"/init"	25 hours ago	Up 25 hours	443/tcp,
	0.0.0.0:6875->80/tcp	bookstack			
xxxxxxxxxxxx	linuxserver/mariadb	"/init"	26 hours ago	Up 25 hours	

Some of this information has been changed for security reasons - such as ports and the CONTAINER ID's seen above. If you want to configure SSL for your bookstack, see [Knoats - NGINX SSL Configuration](#)

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