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Setup:Installation Guide/Docker/Docker Hub

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The easiest way to run BlueSpice free is to install it with an all-in-one Docker image. All required services are preconfigured.

[You can find all necessary information directly on Docker Hub.](#)

How to use the Docker Hub image

Basic usage

Example for quick start. Blue Spice will be accessible only in localhost.

```
dockerrun -d -p 80:80 bluespice/bluespice-free
```

Keep your data outside of the docker

```
docker run -d -p 80:80 -v {/my/data/folder}:/data bluespice/bluespice-free
```

Setting BlueSpice language and URL

```
docker run -d -p 80:80 -v {/my/data/folder}:/data -e "bs_lang=en" -e "bs_url=http://www.domain.com" bluespice/bluespice-free
```

Activating SSL

Using SSL inside the Blue Spice docker image, the `data` directory should be outside of the docker. Create a folder named `cert` inside your data folder. Inside this folder, certificates must be named like:

- `ssl.cert` (SSL certificate. *mandatory*)
- `ssl.key` (Private key of `ssl.cert` . *mandatory*)
- `ssl.ca` (3rd party CA certs for `ssl.cert` . *optional*) If everything is ready for the first run, just run the following command:

```
docker run -d -p 80:80 -p 443:443 -v {/my/data/folder}:/data -e "bs_lang=en" -e "bs_url=https://www.domain.com" bluespice/bluespice-free
```

Note: Port 443 includes the command and also `$bs_url` schema changed to `https`

Login to BlueSpice

```
username: WikiSysop
password: PleaseChangeMe
```

Which services are running?

- Apache
- PHP-FPM
- Jetty9
- Elasticsearch
- MySQL/MariaDB
- Parsoid
- crond
- memcached

Manually updating the Docker image

BlueSpice 3.1.2 has no automatic upgrade feature.

[See: Manual upgrade process and how to fix some known issues.](#)

Updating docker images

A [quality version](#) of this page, [approved](#) on *22 April 2021*, was based off this revision.

Introduction

- Edition: BlueSpice free, distributed on Docker Hub as a Docker image.
- Starting from version 3.1.13, BlueSpice Docker Hub release is able to upgrade itself automatically.

Spinning up a new container with old data

We assume you have a BlueSpice installation from Docker Hub. Also, this installation should have been done using an external data volume.

Example:

```
docker run -d -p 80:80 -v {/my/data/folder}:/data bluespice/bluespice-free
```

1.Back up your current data folder:

```
sudo cp -Rf /my/data/folder /my/data/current
```

2. Stop your current BlueSpice-free container:

```
docker container stop $your_container_id_or_name
```

3. Remove the container (optional):

```
docker container rm $your_container_id_or_name
```

4. Fetch the new container image:

```
docker pull bluespice/bluespice-free:latest
```

6. Create a fresh container with the new image:

```
docker run -d -p 80:80 -v {/my/data/new}:/data bluespice/bluespice-free
```

the BlueSpice DockerHub container will detect the old installation and execute necessary maintenance tasks in the background.

After the bootup, the Wiki will be up to date.

Fixing the broken search

The following commands fix the BlueSpiceExtendedSearch indexes:

```
sudo docker exec $container_name_or_id /opt/docker/setwikiperm.sh /data/www/bluespice/w
sudo docker exec $container_name_or_id /usr/bin/php /data/www/bluespice/w/maintenance
/update.php --quick
sudo docker exec $container_name_or_id /usr/bin/php /data/www/bluespice/w/maintenance
/rebuildall.php --quick
sudo docker exec $container_name_or_id /usr/bin/php /data/www/bluespice/w/extensions
/BlueSpiceExtendedSearch/maintenance/initBackends.php --quick
sudo docker exec $container_name_or_id /usr/bin/php /data/www/bluespice/w/extensions
/BlueSpiceExtendedSearch/maintenance/rebuildIndex.php
sudo docker exec $container_name_or_id /usr/bin/php /data/www/bluespice/w/maintenance
/runJobs.php
```