

# Docker Project Part 1

To start off with docker I needed to download Docker onto the server that I designated to run my webserver and other containers that I choose to setup. I won't cover how to install Docker on a Windows or Linux system as it is heavily covered and can be figured out with a simple google search. After I had docker installed I decided to use Docker Compose to make this webserver.

For Docker Compose:

Step 1. I pulled down the PHP image. Command: `sudo docker pull php`

Step 2. make a directory in a spot of your choice for the Docker Compose yaml file. Command: `mkdir /path/to/yaml/file`

Step 3. go into the compose directory that you created. Command: `cd /path/to/yaml/file`

Step 4. open a text editor and create a file inside the directory and name it: `docker-compose.yaml`

Step 5. I edited this file and wrote in the following below, Please note it serves over port 80 which i used for initial setup and configuration. Later on when I was ready to open it to the internet I changed this open port to server over HTTPS port 443

version: '3'

services:

```
dokuwiki:
  container_name: dokuwiki
  image: php:7-apache-bullseye
  restart: unless-stopped
  networks:
    - dokuwiki
  ports:
    - '8888:80'
  volumes:
    - 'dokuwiki_config:/var/www/html'
```

networks:

```
dokuwiki:
```

volumes:

```
dokuwiki_config:
  driver: local
```

Step 6. when done, save the file. while still inside that directory, run this following command.

command: `docker-compose up -d`

Step 7. from there I remoted into the container while ssh'ed into the Docker server. command: `docker`

exec -it "Container Name" bash

Step 8. move to the dokuwiki directory. command: cd /var/www/html

Step 9. Now download dokuwiki. Command: curl -remote-name <https://download.dokuwiki.org/src/dokuwiki/dokuwiki-stable.tgz> tar -xzvf dokuwiki-stable.tgz --strip-components=1 rm dokuwiki-stable.tgz chown -R www-data:www-data /var/www/

Step 10. Now go to [http://your\\_docker\\_server\\_IP:8888/install.php](http://your_docker_server_IP:8888/install.php) in a web browser and you will be greeted with the start configuration for you Dokuwiki server.

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