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# Docker Compose

## The Environment

In a folder you are going to create two files `.env` and `compose.yaml` .

Depending on what you are doing, you are not going to to put the folder in the same directory. To explain this, this an example to guide you :

If you intend to have a production environment :

```
/srv/tuleap/
```

If it's for a demo/test :

```
/home/$USERNAME/Workspace/test-tuleap
```

Now you can create the file `.env` with this configuration :

```
TULEAP_FQDN="tuleap.example.com"
MYSQL_ROOT_PASSWORD="some random strong password"
TULEAP_SYS_DBPASSWD="another strong password"
SITE_ADMINISTRATOR_PASSWORD="and a third strong password"
```

Please be aware that you need **double quotes** around your variables in order for docker to parse the whole string.

Please check the [environment variables](#) to know what they stand for.

## Tuleap Community

Warning

The following section is meant for test purpose only. The database (MySQL) is handled by Docker and it is not a recommended setup.

Then create a `compose.yaml` file with following content:

```
services:
  tuleap:
    image: tuleap/tuleap-community-edition
    hostname: ${TULEAP_FQDN}
    restart: always
    ports:
      - "80:80"
      - "443:443"
      - "22:22"
    volumes:
      - tuleap-data:/data
    depends_on:
      - db
    environment:
      - TULEAP_FQDN=${TULEAP_FQDN}
      - TULEAP_SYS_DBHOST=db
      - TULEAP_SYS_DBPASSWD=${TULEAP_SYS_DBPASSWD}
      - SITE_ADMINISTRATOR_PASSWORD=${SITE_ADMINISTRATOR_PASSWORD}
      - DB_ADMIN_USER=root
      - DB_ADMIN_PASSWORD=${MYSQL_ROOT_PASSWORD}
```

```
# This is for test purpose only. It's not advised to run a production database as a docker container
db:
  image: mysql:8.0
  command: ["--character-set-server=utf8mb4", "--collation-server=utf8mb4_unicode_ci", "--sql-mode=NO_ENGINE_SUBSTITUTION"]
  environment:
    - MYSQL_ROOT_PASSWORD=${MYSQL_ROOT_PASSWORD}
  volumes:
    - db-data:/var/lib/mysql

volumes:
  tuleap-data:
  db-data:
```

## Tuleap Enterprise

### Attention

This image is only available to [Tuleap Enterprise](#) subscribers. Please contact your support team to get your access to the private registry.

You first need to authenticate towards Tuleap's registry:

```
$ docker login docker.tuleap.org
```

You should add these variables in your `.env` file (along with the [aforementioned ones](#)):

```
TULEAP_VERSION="15.0-1"
DB_FQDN="mysql.example.com"
REDIS_FQDN="redis.example.com"
```

Please check the [environment variables](#) to know what they stand for.

```
services:
  tuleap:
    image: docker.tuleap.org/tuleap-enterprise-edition:${TULEAP_VERSION}
    hostname: ${TULEAP_FQDN}
    restart: always
    ports:
      - "80:80"
      - "443:443"
      - "22:22"
    volumes:
      - tuleap-data:/data
    environment:
      - TULEAP_FQDN=${TULEAP_FQDN}
      - TULEAP_SYS_DBHOST=${DB_FQDN}
      - TULEAP_SYS_DBPASSWD=${TULEAP_SYS_DBPASSWD}
      - SITE_ADMINISTRATOR_PASSWORD=${SITE_ADMINISTRATOR_PASSWORD}
      - DB_ADMIN_USER=root
      - DB_ADMIN_PASSWORD=${MYSQL_ROOT_PASSWORD}
      - TULEAP_FPM_SESSION_MODE=redis
      - TULEAP_REDIS_SERVER=${REDIS_FQDN}

volumes:
  tuleap-data:
```

If you want to secure your server and use certificates, you may spawn a Reverse-Proxy in the stack.

## Run the docker-compose file

Go inside the directory where you created the two files and run

```
$ docker-compose up -d
```

Then you can follow the progress of the installation with

```
$ docker-compose logs -f tuleap
```

Until you see something like:

```
...
tuleap_1 | *****
tuleap_1 | * Your Tuleap fully qualified domain name is tuleap.example.com and it's IP address is 172.21.0.5 *
tuleap_1 | *****
tuleap_1 | Setup Supervisor
tuleap_1 | Let the place for Supervisor
tuleap_1 | 2021-06-15 14:46:50,731 INFO Included extra file "/etc/supervisord.d/backend_workers.ini" during parsing
tuleap_1 | 2021-06-15 14:46:50,731 INFO Included extra file "/etc/supervisord.d/crond.ini" during parsing
tuleap_1 | 2021-06-15 14:46:50,731 INFO Included extra file "/etc/supervisord.d/fpm.ini" during parsing
tuleap_1 | 2021-06-15 14:46:50,731 INFO Included extra file "/etc/supervisord.d/httpd.ini" during parsing
tuleap_1 | 2021-06-15 14:46:50,732 INFO Included extra file "/etc/supervisord.d/nginx.ini" during parsing
tuleap_1 | 2021-06-15 14:46:50,732 INFO Included extra file "/etc/supervisord.d/postfix.ini" during parsing
tuleap_1 | 2021-06-15 14:46:50,732 INFO Included extra file "/etc/supervisord.d/rsyslog.ini" during parsing
tuleap_1 | 2021-06-15 14:46:50,732 INFO Included extra file "/etc/supervisord.d/sshd.ini" during parsing
tuleap_1 | 2021-06-15 14:46:50,732 INFO Included extra file "/etc/supervisord.d/supervisord-server-credentials.ini" during parsing
tuleap_1 | 2021-06-15 14:46:50,732 INFO Set uid to user 0 succeeded
tuleap_1 | 2021-06-15 14:46:50,769 INFO RPC interface 'supervisor' initialized
...
```

You can then quit the logs command (Ctrl+C) and open your browser at the address set in `TULEAP_FQDN` and that’s it.

The docker-compose file provided here is for general guidance and you should adapt it to your environment. One of the main things you will want to configure is a proper email relay.

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