{EPITECH}
LEARN DIFFERENT*

DEVOPS SEMINAR

DOCKER

* apprendre autrement

DEVOPS SEMINAR

Slug of the day: `nsapoold06`

Be careful, the autograder may take time to execute the playbook

Some applications should be provided.

Task 00 - Virtual Machine

Create a new Debian 11 virtual machine without GUI.

Task 01 - Base and docker installation

Install *docker* and *curl* binary on this machine .

Task 02 - User & Group

Create the user `marvin`, who must be part of the `docker` group.

For all the following exercises, you are **NOT** allowed to use the `root` user to launch your container. all tests will be executed with `marvin` user

Make sure Marvin is able to run your docker-compose.yml

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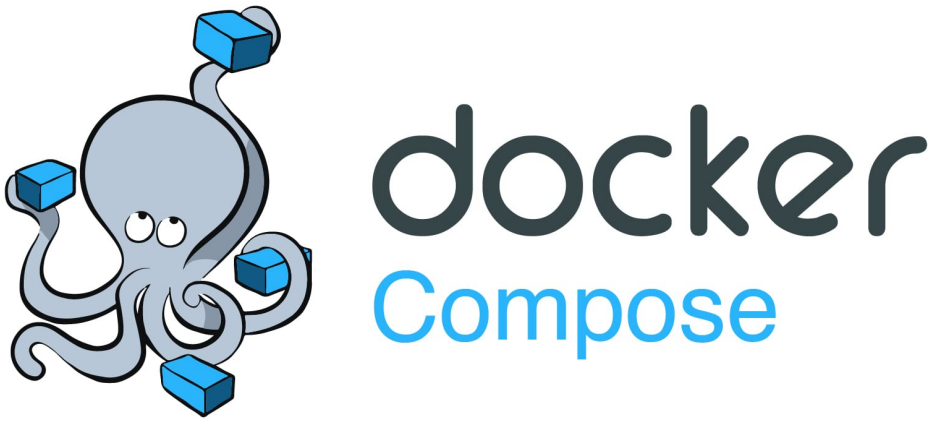
Task 03 - Docker Compose



Create a `docker-compose.yml` file.
Then, integrate your three services:

- ✓ portainer
- ✓ database
- ✓ back end

Task 04 - Portainer

To help you manage your containers, install *portainer*:

- ✓ for this step, you must create a service into docker compose
- ✓ change the default port of *portainer* to `5555` ;
- ✓ container name must be *portainer-nsapoold06*
- ✓ test the *portainer* dashboard at `http://[IP]:5555`

Task 05 - Database

To deploy the database, use a `mariadb` image.

- ✓ container name must be `db_nsapoold06`
- ✓ user must be *marvin* and password `Marvin53Xb`
- ✓ database must be called `nsapoold06` and the user `marvin` must be able to access the database `nsapoold06`

docker hub

Task 06 - Back-end Flask

To deploy the back end, you can use image of your choice and create dockerfile for be able to build your custom image

- ✓ container name must be `back_nsapoold06`
- ✓ available on port 80

Don't forget to change the database connection information

docker pull

Task 07 - End

Eventually, if everything works, you should see a success about `marvin` user on the website available at `http://[ip]/api/user`.

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