SCALE FOR PROJECT INCEPTION You should evaluate 1 student in this team

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Please comply with the following rules:

Introduction

Git repository

- Remain polite, courteous, respectful and constructive throughout the

- Identify with the student or group whose work is evaluated the possible dysfunctions in their project. Take the time to discuss and debate the

evaluation process. The well-being of the community depends on it.

problems that may have been identified. - You must consider that there might be some differences in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade them as honestly as

possible. The pedagogy is useful only and only if the peer-evaluation is done seriously. **Guidelines** - Only grade the work that was turned in the Git repository of the evaluated

student or group.

- Double-check that the Git repository belongs to the student(s). Ensure that the project is the one expected. Also, check that 'git clone' is used in an empty folder.

- Check carefully that no malicious aliases was used to fool you and make you evaluate something that is not the content of the official repository. - To avoid any surprises and if applicable, review together any scripts used

to facilitate the grading (scripts for testing or automation). - If you have not completed the assignment you are going to evaluate, you have

- Use the available flags to report an empty repository, a non-functioning program, a Norm error, cheating, and so forth.

to read the entire subject prior to starting the evaluation process.

to identify any mistakes that shouldn't be repeated in the future.

In these cases, the evaluation process ends and the final grade is 0, or -42 in case of cheating. However, except for cheating, student are

strongly encouraged to review together the work that was turned in, in order

Attachments subject.pdf

Preliminaries If cheating is suspected, the evaluation stops here. Use the "Cheat" flag to report it. Take this

decision calmly, wisely, and please, use this button with caution.

Preliminary tests

Any credentials, API keys, environment variables must be set inside a .env file during the evaluation. In case any credentials, API keys are available in the git repository and

outside of the .env file created during the evaluation, the evaluation stop and the mark is 0. • Defense can only happen if the evaluated student or group is present. This way everybody

• If no work has been submitted (or wrong files, wrong directory, or wrong filenames), the

• For this project, you have to clone their Git repository on their station.

learns by sharing knowledge with each other.

grade is 0, and the evaluation process ends.

- \times No ✓ Yes
- **General instructions**

• For the entire evaluation process, if you don't know how to check a requirement, or verify anything, the evaluated student has to help you.

Ensure that all the files required to configure the application are located inside a srcs

folder. The srcs folder must be located at the root of the repository.

• Ensure that a Makefile is located at the root of the repository. Before starting the evaluation, run this command in the terminal: "docker stop \$(docker ps)

any of them. Otherwise, the evaluation ends now.

\$(docker volume ls -q); docker network rm \$(docker network ls -q) 2>/dev/null"

General instructions

• Read the docker-compose.yml file. There musn't be 'network: host' in it or 'links:'. Otherwise, the evaluation ends now. • Read the docker-compose.yml file. There must be 'network(s)' in it. Otherwise, the

-qa); docker rm \$(docker ps -qa); docker rmi -f \$(docker images -qa); docker volume rm

evaluation ends now. • Examine the Makefile and all the scripts in which Docker is used. There musn't be '--link' in

• Examine the Dockerfiles. If you see 'tail -f' or any command run in background in any of

- them in the ENTRYPOINT section, the evaluation ends now. Same thing if 'bash' or 'sh' are used but not for running a script (e.g, 'nginx & bash' or 'bash'). If the entrypoint is a script (e.g., ENTRYPOINT ["sh", "my_entrypoint.sh"], ENTRYPOINT
- ["bash", "my_entrypoint.sh"]), ensure it runs no program in background (e.g, 'nginx & bash'). • Examine all the scripts in the repository. Ensure none of them runs an infinite loop. The

following are a few examples of prohibited commands: 'sleep infinity', 'tail -f /dev/null',

- 'tail -f /dev/random' Run the Makefile. \times No

This project consists in setting up a small infrastructure composed of different services using

docker compose. Ensure that all the following points are correct.

• The evaluated person has to explain to you in simple terms:

How Docker and docker compose work

The benefit of Docker compared to VMs

 The difference between a Docker image used with docker compose and without docker compose

Mandatory part

provided in the subject's PDF file). ✓ Yes imesNo

• The pertinence of the directory structure required for this project (an example is

now.

Project overview

- Simple setup Ensure that NGINX can be accessed by port 443 only. Once done, open the page.
 - the WordPress Installation page). To access it, open https://login.42.fr in your browser, where login is the login of the evaluated student. You shouldn't be able to access the site

other local image, the evaluation process ends now.

Ensure that a SSL/TLS certificate is used.

evaluation process ends now.

the evaluation process ends now.

Ensure that there is a Dockerfile.

flag '-p' is authorized if necessary).

Yes

flag '-p' is authorized if necessary).

Ensure that there is no NGINX in the Dockerfile.

 \times No ✓ Yes **Docker Basics**

• Start by checking the Dockerfiles. There must be one Dockerfile per service. Ensure that the

Dockerfiles are not empty files. If it's not the case or if a Dockerfile is missing, the

• Make sure the evaluated student has written their own Dockerfiles and built their own

• Ensure that the WordPress website is properly installed and configured (you shouldn't see

http://login.42.fr. If something doesn't work as expected, the evaluation process ends

Docker images. Indeed, it is forbidden to use ready-made ones or to use services such as DockerHub. • Ensure that every container is built from the penultimate stable version of Alpine/Debian.

If a Dockerfile does not start with 'FROM alpine:X.X.X' or 'FROM debian:XXXXX', or any

The Docker images must have the same name as their corresponding service. Otherwise,

• Ensure that the Makefile has set up all the services via docker compose. This means that

the containers must have been built using docker compose and that no crash happened.

 \times No

Otherwise, the evaluation process ends. ✓ Yes

Docker Network

• Ensure that docker-network is used by checking the docker-compose.yml file. Then run the

• The evaluated student has to give you a simple explanation of docker-network. If any of

'docker network Is' command to verify that a network is visible.

the above points is not correct, the evaluation process ends now.

 \times No ✓ Yes NGINX with SSL/TLS

Using the 'docker compose ps' command, ensure that the container was created (using the

SSL/TLS certificate doesn't have to be recognized. A self-signed certificate warning may

appear. If any of the above points is not clearly explained and correct, the evaluation

Using the 'docker compose ps' command, ensure that the container was created (using the

• Ensure that there is a Volume. To do so: Run the command 'docker volume Is' then 'docker

username must not include 'admin' or 'Admin' (e.g., admin, administrator, Admin-login,

From the Administration dashboard, edit a page. Verify on the website that the page has

been updated. If any of the above points is not correct, the evaluation process ends now.

Try to access the service via http (port 80) and verify that you cannot connect.

Open https://login.42.fr/ in your browser, where login is the login of the evaluated student. The displayed page must be the configured WordPress website (you shouldn't see the WordPress Installation page). • The use of a TLS v1.2/v1.3 certificate is mandatory and must be demonstrated. The

 \times No

 \times No

 \times No

WordPress with php-fpm and its volume Ensure that there is a Dockerfile.

process ends now.

volume inspect <volume name>'. Verify that the result in the standard output contains the path '/home/login/data/', where login is the login of the evaluated student. • Ensure that you can add a comment using the available WordPress user. • Sign in with the administrator account to access the Administration dashboard. The Admin

admin-123, and so forth).

MariaDB and its volume Ensure that there is a Dockerfile.

Ensure that there is no NGINX in the Dockerfile.

✓ Yes

flag '-p' is authorized if necessary).

✓ Yes

evaluation process ends now.

Bonus

Ratings

✓ Yes

path '/home/login/data/', where login is the login of the evaluated student. • The evaluated student must be able to explain you how to login into the database. Verify that the database is not empty. If any of the above points is not correct, the evaluation process ends now.

Using the 'docker compose ps' command, ensure that the container was created (using the

Ensure that there is a Volume. To do so: Run the command 'docker volume Is' then 'docker

volume inspect <volume name>'. Verify that the result in the standard output contains the

Persistence! • This part is pretty straightforward. You have to reboot the virtual machine. Once it has restarted, launch docker compose again. Then, verify that everything is functional, and

that both WordPress and MariaDB are configured. The changes you made previously to the WordPress website should still be here. If any of the above points is not correct, the

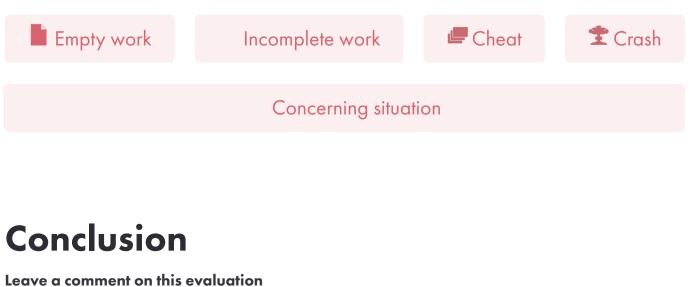
Bonus Evaluate the bonus part if, and only if, the mandatory part has been entirely and perfectly done, and the error management handles unexpected or bad usage. In case all the mandatory points were not passed during the defense, bonus points must be totally ignored.

Rate it from 0 (failed) through 5 (excellent)

Add 1 point per bonus authorized in the subject.

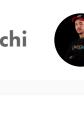
★ Outstanding project **✓** Ok Empty work

Don't forget to check the flag corresponding to the defense

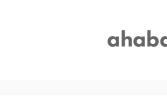


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 \times No Verify and test the proper functioning and implementation of each extra For the free choice service, the evaluated student has to give you a simple explanation about how it works and why they think it is useful.

> Finish evaluation General term of use Rules of procedure

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