

(https://
profile.intra.42.fr)

SCALE FOR PROJECT INCEPTION (/PROJECTS/ INCEPTION)

You should evaluate 1 student in this team



Git repository

git@vogsphere.42lisboa.com:vogsphere/intra-uuid-ae8311a1-bc77-4fbd-8;

Introduction

Please adhere to the following rules:

- Remain polite, courteous, respectful and constructive throughout the evaluation process. The well-being of the community depends on it.
- Identify the possible dysfunctions in the project of the student or group whose work is being evaluated. Take the time to discuss and debate the 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. Pedagogy is useful only if peer evaluation is done seriously.

Guidelines

- Only grade the work submitted in the Git repository of the evaluated student or group.
- Double-check that the Git repository belongs to the student or students. Ensure that the project is the expected one. Also, check that 'git clone' is used in an empty directory.
- Check carefully that no malicious aliases were used to deceive 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 grading (such as testing or automation scripts).
- If you have not completed the assignment you are going to evaluate, you must read the entire subject before starting the evaluation process.
- Use the available flags to report an empty repository, a non-functioning program, a Norm error, cheating, etc.
In these cases, the evaluation process ends, and the final grade is 0, or -42 in the case of cheating. However, except in cases of cheating, students are strongly encouraged to review the submitted work together to identify any mistakes that should not be repeated in the future.

Attachments

subject.pdf (https://cdn.intra.42.fr/pdf/pdf/169407/en.subject.pdf)

Preliminaries

If cheating is suspected, the evaluation stops here. Use the "Cheat" flag to report this. Make this decision calmly and wisely, and please, use this button with caution.

Preliminary tests

- For example, the use of a local .env file to store info is allowed, and/or also the use of Docker secrets. If any credentials or API keys are available in the Git repository and outside of secrets files created during the evaluation, the evaluation stops and the mark is 0.
- The defense can only occur if the evaluated student or group is present. This way, everyone learns by sharing knowledge with one another.
- If no work has been submitted (or wrong files, wrong directory, or wrong filenames), the grade is 0, and the evaluation process ends.
- For this project, you must clone their Git repository on their workstation.

✓ Yes

✗ No

General instructions

General instructions

- Throughout the evaluation process, if you do not know how to check a requirement, or verify something, the evaluated student must assist you.
- Ensure that all files required to configure the application are located within 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 beginning the evaluation, execute this command in the terminal: "docker stop \$(docker ps -qa); docker rm \$(docker ps -qa); docker rmi -f \$(docker images -qa); docker volume rm \$(docker volume ls -q); docker network rm \$(docker network ls -q) 2>/dev/null"
- Read the docker-compose.yml file. There must not be 'network: host' or 'links:' in it. Otherwise, the evaluation ends immediately.
- Read the docker-compose.yml file. It must contain 'network(s)'. Otherwise, the evaluation ends immediately.
- Examine the Makefile and all the scripts in which Docker is used. None of them must contain '--link'. Otherwise, the evaluation ends immediately.
- Examine the Dockerfiles. None of them must contain 'tail -f' or any command running in the background in the ENTRYPOINT section. If there is, the evaluation ends immediately. The same applies if 'bash' or 'sh' are used but not for running a script (e.g., 'nginx & bash' or 'bash').
- Examine the Dockerfiles. Containers must be built from either the penultimate stable version of Alpine or Debian.
- If the entrypoint is a script (e.g., ENTRYPOINT ["sh", "my_entrypoint.sh"], ENTRYPOINT ["bash", "my_entrypoint.sh"]), ensure it runs no program in the background (e.g., 'nginx & bash').
- Examine all the scripts in the repository. Ensure that none of them runs an infinite loop. The following are examples of prohibited commands: 'sleep infinity', 'tail -f /dev/null', 'tail -f /dev/random'.
- Run the Makefile.

✓ Yes

✗ No

Mandatory part

This project involves setting up a small infrastructure composed of different services using docker compose. Ensure that all of the following points are correct.

Project overview

- The evaluated person must explain the following to you in simple terms:
 - How Docker and docker compose work.
 - The difference between a Docker image used with docker compose and without docker compose.
 - The benefit of Docker compared to virtual machines (VMs).
 - The relevance of the directory structure required for this project (an example is provided in the project's

PDF file).

☒ Yes

☐ No

Simple setup

- Ensure that NGINX is accessible only through port 443. Once completed, open the page.
- Ensure that an SSL/TLS certificate is being used.
- Ensure that the WordPress website is properly installed and configured; you should not see the WordPress installation page. To access it, open <https://login.42.fr> (<https://login.42.fr>) in your browser, where 'login' is the username of the evaluated student. You should not be able to access the site via <http://login.42.fr> (<http://login.42.fr>). If something does not work as expected, the evaluation process ends immediately.

☒ Yes

☐ No

Docker Basics

- Begin by checking the Dockerfiles. There must be one Dockerfile for each service. Ensure that the Dockerfiles are not empty. If this is not the case or if a Dockerfile is missing, the evaluation process ends immediately.
- Ensure that the evaluated student has written their own Dockerfiles and built their own Docker images. It is prohibited to use pre-made ones or services such as DockerHub.
- Ensure that each container is built from the penultimate stable version of Alpine or Debian. If a Dockerfile does not start with 'FROM alpine:X.X.X', 'FROM debian:XXXXX', or any other local image, the evaluation process ends immediately.
- Docker images must have the same name as their corresponding service. Otherwise, the evaluation process ends immediately.
- Ensure that the Makefile sets up all the services via docker compose. This means that the containers must be built using docker compose and that no crashes occur. Otherwise, the evaluation process ends.

☒ Yes

☐ No

Docker Network

- Ensure that docker-network is used by checking the docker-compose.yml file. Then, run the 'docker network ls' command to verify that a network is visible.
- The evaluated student must provide a simple explanation of docker-network. If any of the above points is not correct, the evaluation process ends immediately.

☒ Yes

☐ No

NGINX with SSL/TLS

- Ensure that there is a Dockerfile.
- Using the 'docker compose ps' command, ensure that the container is created (using the flag '-p' is permitted if necessary).
- Attempt to access the service via HTTP (port 80) and verify that you cannot connect.
- Open <https://login.42.fr> (<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 should not see the WordPress installation page).
- The use of a TLS v1.2/v1.3 certificate is mandatory and must be demonstrated. The SSL/TLS certificate does not have to be recognized. A warning for a self-signed certificate may appear. If any of the above points is not clearly explained and correct, the evaluation process ends immediately.

☒ Yes

☐ No

WordPress with php-fpm and its volume

- Ensure that there is a Dockerfile.
- Ensure that NGINX is not included in the Dockerfile.
- Using the 'docker compose ps' command, ensure that the container was created (using the flag '-p' is

authorized if necessary).

- Ensure that a volume is present. To do so: Run the command 'docker volume ls' then 'docker volume inspect <volume name>'. Verify that the standard output contains the path '/home/login/data/', where 'login' is the username of the evaluated student.
- Ensure that you can add a comment using the available WordPress account.
- Sign in with the administrator account to access the administration dashboard. The administrator username must not include 'admin' or 'Admin' (e.g., admin, administrator, Admin-login, admin-123, etc.).
- From the administration dashboard, edit a page. Verify on the website that the page is updated. If any of the above points is not correct, the evaluation process ends now.

✓ Yes

✗ No

MariaDB and its volume

- Ensure that there is a Dockerfile.
- Ensure that there is no NGINX in the Dockerfile.
- Using the 'docker compose ps' command, ensure that the container was created (using the flag '-p' is authorized if necessary).
- Ensure that there is a Volume. To do so: Run the command 'docker volume ls' then 'docker 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.
- The evaluated student must be able to explain how to log in to the database. Ensure that the database is not empty. If any of the above points is not correct, the evaluation process ends now.

☒ Yes☐ No

Persistence!

- This part is straightforward. You must 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 present. If any of the above points is not correct, the evaluation process ends now.

☒ Yes☐ No

Bonus

Evaluate the bonus part only if the mandatory part has been completed entirely and perfectly, and error management handles unexpected or improper usage. If all mandatory points were not passed during the defense, bonus points must be completely ignored.

Bonus

Add 1 point per bonus authorized in the subject.

Verify and test the proper functioning and implementation of each additional service.

For the free choice service, the evaluated student must provide a simple explanation of how it works and why they believe it is useful.

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



Ratings

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

☒ Ok☐ ★ Outstanding project☐ Empty work☐ 📄 Incomplete work☐ 📖 Cheat☐ 🚒 Crash☐ ▲ Concerning situation☐ 💬 Can't support / explain code

Conclusion

Leave a comment on this evaluation (2048 chars max)

Finish evaluation

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