



SCALE FOR PROJECT BORN2BEROOT (/PROJECTS/BORN2BEROOT)

You should evaluate 1 student in this team

Git repository

Introduction

Please comply with the following rules:

- 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
- 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

Guidelines

- Only grade the work that was turned in the Git repository of the evaluated
- Double-check that the Git repository belongs to the student(s). Ensure that the project is the one expected. Also, check that "git clone"
- Check carefully that no malicious aliases was used to fool you and make you
- 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.

In these cases, the evaluation process ends and the final grade is 0,

or -42 in case of cheating. However, except for cheating,

Attachments

☐ [subject.pdf](https://cdn.intra.42.fr/pdf/pdf/68664/en.subject.pdf) (https://cdn.intra.42.fr/pdf/pdf/68664/en.subject.pdf)

Preliminaries

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

Preliminary tests

- Defense can only happen if the student being evaluated or group is present. This way everybody learns by
- sharing knowledge with each other.
- If no work has been submitted (or wrong files, wrong directory, or wrong filenames), the grade is 0, and the

☐ Yes

☐ No

General instructions

General instructions

- During the defense, as soon as you need help to verify a point, the student evaluated must help you.
- Ensure that the "signature.txt" file is present at the root of the cloned repository. Check that the signature contained in "signature.txt" is identical to that of the ".vdi" file of the virtual machine
- to be evaluated. A simple "diff" should allow you to compare the two signatures. If
- necessary, ask the student
- being evaluated where their ".vdi" file is located.

☐ Yes☐ No

Mandatory part

The project consists of creating and configuring a virtual machine following strict rules. The student being evaluated

Project overview

- The student being evaluated should explain to you simply:
 - How a virtual machine works.
 - Their choice of operating system.
 - The basic differences between Rocky and Debian.
 - The purpose of virtual machines.
 - If the evaluated student chose Rocky: what SELinux and DNF are.
 - If the evaluated student chose Debian: the difference between aptitude and apt, and what APPArmor is. During the defense, a script must display information all every 10 minutes. Its

☐ Yes☐ No

Simple setup

Remember: Whenever you need help checking something, the student being evaluated

- Ensure that the machine does not have a graphical environment at launch. A password will be requested before attempting to connect to this machine. Finally, connect with a user with the help of the student being
 - evaluated. This user must not be root. Pay attention to the password chosen, it must
 - follow the rules imposed
 - in the subject.
- Check that the UFW service is started with the help of the evaluator.

☐ Yes☐ No

User

Remember: Whenever you need help checking something, the student being evaluated

The subject requests that a user with the login of the student being evaluated is present on the virtual machine. Check that it has been added and that it

Make sure the rules imposed in the subject concerning the password policy have been put in place by

First, create a new user. Assign it a password of your choice, respecting the subject rules. The student being evaluated must now explain to you how they were able to set up the rules requested

- Now that you have a new user, ask the student being evaluated to create a group named "evaluating" in
- Finally, ask the student being evaluated to explain the advantages of this password policy, as well as the advantages and disadvantages of its implementation. Of course, answering that it is

If something does not work as expected or is not clearly explained, the evaluation stops here.

☐ Yes

☐ No

Hostname and partitions

Remember: Whenever you need help checking something, the student being evaluated

- Check that the hostname of the machine is correctly formatted as follows: login42 (login of the student being evaluated).
 - Modify this hostname by replacing the login with yours, then restart the machine. If on
 - restart, the hostname
 - has not been updated, the evaluation stops here.
 - You can now restore the machine to the original hostname.
- Ask the student being evaluated how to view the partitions for this virtual machine.

This part is an opportunity to discuss the scores! The student being evaluated should give you a brief explanation of how LVM works and what it is all about.

☐ Yes

☐ No

SUDO

Remember: Whenever you need help checking something, the student being evaluated

- Check that the "sudo" program is properly installed on the virtual machine.
 - The student being evaluated should now show assigning your new user to the "sudo" group.
- The subject imposes strict rules for sudo. The student being evaluated must first explain the value and

- Verify that the "/var/log/sudo/" folder exists and has at least one file. Check the contents of the files in this folder, You should see a history of the commands used with sudo. Finally, try to run a command via sudo.

☐ Yes☐ No

UFW / FirewallD

Remember: Whenever you need help checking something, the student being evaluated

- Check that the "UFW" (or "Firewalld" for rocky) program is properly installed on the virtual machine.
- Check that it is working properly.
The student being evaluated should explain to you basically what UFW (or FirewallD) is and the value of using it.
- List the active rules in UFW (or FirewallD). A rule must exist for port 4242.
- Add a new rule to open port 8080. Check that this one has been added by listing

☐ Yes☐ No

SSH

Remember: Whenever you need help checking something, the student being evaluated

- Check that the SSH service is properly installed on the virtual machine.
- Check that it is working properly.
- The student being evaluated must be able to explain to you basically what SSH is and the value of using it.
- Verify that the SSH service only uses port 4242.
The student being evaluated should help you use SSH in order to log in with the newly created user. To do this, you can use a key or a simple password. It will depend on the student being

☐ Yes☐ No

Script monitoring

Remember: Whenever you need help checking something, the student being evaluated

The student being evaluated should explain to you simply:

- How their script works by showing you
- the code.

- How the student being evaluated set up their script so that it runs every 10 minutes from when the server starts. Once the correct functioning of the script has been verified, the student being evaluated should ensure that this script runs every minute. You can run whatever you want to make sure the script runs with dynamic values correctly. Finally, the student being evaluated should make the script stop running when the server has

☐ Yes☐ No

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

Bonus

Check, with the help of the subject and the student being evaluated, the bonus

- Setting up partitions is worth 2 points.
- Setting up WordPress, only with the services required by the subject, is worth 2 points.
- The free choice service is worth 1 point. Verify and test the proper functioning and implementation of each

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

Conclusion

Leave a comment on this evaluation

Great Job!

Finish evaluation

[Terms of use for video surveillance](#)

(<https://profile.intra.42.fr/legal/terms/1>)

[Rules of procedure](#) (<https://profile.intra.42.fr/legal/terms/4>)

[Declaration on the use of cookies](#)

(<https://profile.intra.42.fr/legal/terms/2>)

[General term of use of the site](#)