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SCALE FOR PROJECT BORN2BEROOT (/PROJECTS/BORN2BEROOT)

You should evaluate 1 student in this team

★

Git repository

`git@vogsphere-v2.42sp.org.br:vogsphere/intra-uuid-cbd6714d-3296-41cf`

Introduction

Please comply with the following rules:

- Remain polite, courteous, respectful and constructive throughout the evaluation process. The well-being of the community depends on it.

- Identify with the student or group whose work is evaluated the possible dysfunctions in their project. 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 effective only if peer evaluation is conducted 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 were 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 to read the entire subject prior to starting the evaluation process.

- 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, students are
strongly encouraged to review together the work that was turned in, in order
to identify any mistakes that shouldn't be repeated in the future.

Attachments

📄 subject.pdf (https://cdn.intra.42.fr/pdf/pdf/164179/en.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

- The defense can only occur if the student or group being evaluated 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 evaluation process ends.
- For this project, you have to clone their Git repository on their station.

    ✓ Yes   ✕ No

General instructions

General instructions

- During the defense, if you need assistance verifying a point, the student being evaluated must assist 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.
- As a precaution, You must duplicate the submitted virtual machine image in a different directory, then boot on that copy.
- Verify that no snapshots are being used.
- Do not accept a virtual machine that is already running before the defense.
- Start the virtual machine to be evaluated.
- If something doesn't work as expected or the two signatures differ, the evaluation stops here.

    ✓ Yes   ✕ No

Mandatory part

The project involves creating and configuring a virtual machine according to strict rules. The student being evaluated will have to help you during the defense. Ensure that all of the following points are fulfilled.

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 every 10 minutes. Its operation will be checked in detail later. If the explanations are not clear, the evaluation stops here.

    ☑ Yes   ✕ No

Simple setup

Remember: Whenever you need help checking something, the student being evaluated
should be able to help you.

- Ensure that the machine does not have a graphical environment at launch. A password will be required 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 student being evaluated.
- Check that the SSH service is started with the help of the student being evaluated.
- Check that the chosen operating system is Debian or Rocky with the help of the student being evaluated. If something does not work as expected or is not clearly explained, the evaluation stops here.

    ☑ Yes   ✕ No

User

Remember: Whenever you need help checking something, the student being evaluated
should be able to help you.

The subject requires that a user with the login of the student being evaluated exists
on the virtual machine. Check that it has been added and that it belongs to the
"sudo" and "user42" groups.

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

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
in the subject on their virtual machine.
Normally there should be one or two modified files. If any problem arises, the evaluation stops here.

- Now that you have a new user, ask the student being evaluated to create a group named "evaluating" in front of you and assign it to this user. Finally, check that this user belongs to the "evaluating" group.

- 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 because the subject asks
for it does not count.

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
should be able to help you.

- 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.
- Compare the output with the example given in the subject. Please note: if the student being evaluated
  completes the bonuses, it will be necessary to refer to the bonus example.

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

☑ Yes   ✕ No

SUDO

Remember: Whenever you need help checking something, the student being evaluated
should be able to help you.

- 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 mandates strict rules for sudo. The student being evaluated must first explain the value and
  operation of sudo using examples of their choice. In a second step, it must show you the implementation of
  the rules imposed by the subject.
- 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.
  See if the file (s) in the "/var/log/sudo/" folder have been updated. If something does not work as expected or
  is not clearly explained, the evaluation stops here.

☑ Yes   ✕ No

UFW / Firewalld

Remember: Whenever you need help checking something, the student being evaluated
should be able to help you.

- 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 provide a basic explanation of what UFW (or Firewalld) is and its value.
- 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 the active rules.
- Finally, delete this new rule with the help of the student being evaluated. If something does not work as
  expected or is not clearly explained, the evaluation stops here.

SSH

Remember: Whenever you need help checking something, the student being evaluated
should be able to help you.

- 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 in the virtual machine.
- 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 evaluated. Of course, you have to make sure that you cannot use SSH with the "root" user as stated in the subject. If something does not work as expected or is not clearly explained, the evaluation stops here.

☑ Yes   ✕ No

Script monitoring

Remember: Whenever you need help checking something, the student being evaluated
should be able to help you.

The student being evaluated should explain to you simply:

- How their script works by showing you the code.
- What "cron" is.
- How the student being evaluated set up their script so that it runs every 10 minutes from when the server starts. Once the script's correct functioning has been verified, the student being evaluated should ensure that it 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 started up, but without modifying the script itself. To check this point, you will have to restart the server one last time. At startup, it will be necessary to check that the script still exists in the same place, that its rights have remained unchanged, and that it has not been modified. If something does not work as expected or is not clearly explained, the evaluation stops here.

☑ Yes   ✕ No

Bonus

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

Bonus

Check, with the help of the subject and the student being evaluated, the bonus
points authorized for this project:

- 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 extra service. For the free choice service, the student being evaluated must provide a simple explanation of

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how it works and why they think it is useful. Please note that NGINX and Apache2 are prohibited.

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