

42 Evals[Back to all evaluation sheets](#)**Points earned****0**

Born2beroot

You should evaluate **1** student in this team

Introduction

Please follow the rules below:

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

Identify with the evaluated person or group any potential malfunctions in their work. Take the time to discuss and debate the identified issues.

You must take into account that there may be slight differences in interpretation between the project instructions, its scope, and its features. Keep an open mind and grade in the most honest way possible. The pedagogy is only valid if the peer evaluation is done seriously.

Guidelines

Please follow the guidelines below:

Only grade what is contained in the student's or group's cloned Git repository.

Ensure that the Git repository actually belongs to the student or group, that the project is the one expected, and that "git clone" is used in an empty folder.

Thoroughly check that no alias has been used to deceive you and make sure you are evaluating the official submission.

Attachments

Please download the attachments below:

 [subject.pdf](#)

Points earned

0

Mandatory Part

Preliminary Tests

Verify the following points:

The conditions for access to the defense are met: the evaluated person(s) is present, the submission is non-empty and truly belongs to them, etc...

For this project, you must clone the Git repository on the computer of the person being evaluated.

Yes

No

General Guidelines

The project involves creating and configuring a virtual machine following strict rules. The evaluated person will need to assist you during the defense. Make sure all the following points are respected.

During the defense, as soon as you need help to verify a point, the evaluated person must assist you.

Check that the "signature.txt" file is present at the repository.

Ensure that the signature contained in "signature.txt" file of the virtual machine being evaluated. Ask you to compare the two signatures. If needed, ask where their ".vdi" file is located.

As a precaution, you may duplicate the original virtual machine to keep a copy.

Launch the virtual machine to be evaluated.

If something does not work as expected or the two signatures differ, the evaluation stops here.

Yes

No

Points earned

0

Project Overview

The evaluated person must simply explain:

The basic functioning of their virtual machine

Their choice of operating system

The basic differences between Rocky and Debian

The benefits of virtual machines

If the chosen operating system is Rocky, they must explain what SELinux and DNF are.

If the chosen operating system is Debian, they must explain 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

Points earned

0

Simple Configuration

Reminder: as soon as you need help to verify a point, the evaluated person must be able to assist you.

Verify that the machine does not have a graphical environment at startup. A password will be requested before any connection attempt on this machine. Log in with a non-root user. Verify that the chosen password respects the rules imposed in the subject. Then, with the help of the evaluator, make sure that:

The chosen operating system is indeed Debian or Rocky

The UFW service is properly launched

The SSH service is properly launched. If something does not work as expected or is not clearly explained, the evaluation stops here.

Yes

No

User

Reminder: as soon as you need help to check a point, the evaluated person must be able to assist you. The subject requires that a user with the login name of the evaluated person be present on the virtual machine. Verify that this user has been added and that they belong to the "sudo" and "user42" groups. Ensure the rules imposed in the subject concerning the password policy have been implemented by following the steps below. First, create a new user. Assign them a password of your choice, respecting the subject's rules. The evaluated person must now explain how they were able to implement the requested rules on their virtual machine. Normally, one or two

files would have been modified. If there is any problem, the evaluation stops here.

Now that you have a new user, ask the evaluated person to create a user named "evaluating" in front of you and assign it to the group.

Finally, check that this user indeed belongs to the group.

To finish, ask the evaluated person to explain the purpose of this policy, as well as the advantages and disadvantages of its implementation. Of course, answering that it is because the subject requires it does not count.

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

Points earned

0

Yes

No

Hostname and Partitions

Reminder: as soon as you need help to check a point, the evaluated person must be able to assist you.

Verify that the hostname of the machine is formatted as follows: login42 (login of the evaluated person).

Change this hostname by replacing the login with yours, then restart the machine. If upon restarting, the hostname has not been updated, the evaluation stops here.

You can now restore the original hostname of the machine.

Ask the evaluated person how to display the partitions of their virtual machine.

Compare the output with the example given in the subject. Note: if the evaluated person has done the bonuses, you should refer to the example from the bonus part.

This part is an opportunity to discuss partitions! The evaluated person must give you a brief explanation of how LVM works and why it's beneficial.

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

Yes

No

Points earned

0

SUDO

Reminder: as soon as you need help to check a point, the evaluated person must be able to assist you.

Verify that the "sudo" program is indeed installed on the virtual machine.

The evaluated person must now show how to assign your new user to the "sudo" group.

The subject imposes strict rules for sudo. The evaluated person must first explain the purpose and operation of sudo with examples of their choice. Then, they must demonstrate the implementation of the rules imposed by the subject.

Verify that the "/var/log/sudo/" directory exists and contains at least one file. Check the contents of the files in this directory; you should see a history of commands used with sudo. Finally, attempt to run a command via sudo. Check if the file(s) in the "/var/log/sudo/" directory have been updated. If something does not work as expected or is not clearly explained, the evaluation stops here.

Yes

No

UFW / Firewall

Reminder: as soon as you need help to check a point, the evaluated person

must be able to assist you.

Verify that the "UFW" (or "Firewalld" for rocky) program is indeed installed on the virtual machine.

Verify that it is functioning correctly.

The evaluated person must give you a basic explanation of what "Firewalld" is and why it's important to use it.

List the active rules in UFW (or "Firewalld"). There should be a rule for port 4242.

Add a new rule to open port 8080. Verify that it has been added by listing the active rules.

Finally, with the help of the evaluated person, delete this new rule. If something does not work as expected or is not clearly explained, the evaluation stops here.

Yes

No

Points earned

0

SSH

Reminder: as soon as you need help to check a point, the evaluated person must be able to assist you.

Verify that the SSH service is indeed installed on the virtual machine.

Verify that it is functioning correctly.

The evaluated person must give you a basic explanation of what SSH is and why it's important to use it.

Verify that the SSH service uses only port 4242.

The evaluated person must help you use SSH to connect with the new user created. For this, you can use a key or a simple password, depending on the evaluated person. Of course, you must ensure that SSH cannot be used with the "root" user as indicated in the subject. If something does not work as

expected or is not clearly explained, the evaluation stops here.

Yes

No

Points earned

0

Script Monitoring

Reminder: as soon as you need help to check a point, the evaluated person must be able to assist you. The evaluated person must simply explain:

The operation of their script by displaying its code

What "cron" is

How they have set up their script to execute every 10 minutes from server launch. Once the proper functioning of the script is verified, the evaluated person must make sure that this script executes every minute. You can launch whatever you wish to ensure that the script runs correctly with dynamic values. Finally, the evaluated person must ensure that the script no longer runs at server launch, without modifying the script itself. To verify this point, the server will need to be restarted one last time. At startup, it must be verified that the script still exists in the same place, that its permissions have remained unchanged, and that it has not been modified. If any of the above points are not correct, the evaluation stops here.

Yes

No

Bonus Part

Bonus

Bonuses will only be examined if the mandatory part is excellent. This

means that the mandatory part must have been completed from start to finish, with perfect error management even in cases of unexpected use. If all mandatory points have not been awarded during this defense, no bonus points will be counted.

Verify with the help of the subject and the evaluator the bonuses for this project:

Points earned

0

The implementation of partitions will be worth 2 points

The setup of WordPress, with only the services listed in the subject, will be worth 2 points

The free-choice service will be worth 1 point. Verify and test the proper functioning and implementation of each additional service. For the free-choice bonus service, the evaluated person must provide a simple explanation of the service and explain the reasons for their choice. Be aware: NGINX and Apache2 are forbidden.

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



0

1

2

3

4

5

Ratings



OK



Outstanding



Empty Work



Incomplete Work



Cheat



Crash



Concerning Situations

© 2024 42evals. All rights reserved.

Points earned

0