SCALE FOR PROJECT ROGER-SKYLINE-1 (/PROJECTS/ROGER-SKYLINE-1)

You should evaluate 1 student in this team

★

Git repository

vogsphere@vogsphere.2:

Introduction

Please respect the following rules:

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

- Identify with the person (or the group) graded the eventual dysfunctions of the work. Take the time to discuss and debate the problems you have identified.

- You must consider that there might be some difference in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade him/her as honestly as possible. The pedagogy is valid only if the peer-evaluation is conducted seriously.

Guidelines

- Only grade the work that is in the student's VM.

- Check that this is the student's VM.

- To avoid any surprises, carefully check that both the correcting and the corrected students have reviewed the possible scripts used to facilitate the grading.

- Use the flags available on this scale to signal an empty repository, non-functioning program, a norm error, cheating etc. In these cases, the grading is over and the final grade is 0 (or -42 in case of cheating). However, with the exception of cheating, you are

encouraged to continue to discuss your work (even if you have not finished it) in order to identify any issues that may have caused this failure and avoid repeating the same mistake in the future.

Attachments

Sujet (https://cdn.intra.42.fr/pdf/pdf/1510/roger-skyline-1.5.fr.pdf)

Subject (https://cdn.intra.42.fr/pdf/pdf/1511/roger-skyline-1.5.en.pdf)

VM Part

Here we evaluate the VM Part.

Checks

We will check in this section that the instructions have been respected. If only one of these points is wrong you must end the evaluation and give a score of 0.
- The VM runs well on a Linux OS.
- Technos such as Traefik as well as that Docker/Vagrant/etc. containers are not used in this project.

☑ Yes ☒ No

Install and Update

We will check in this section that the VM is correctly installed and updated. To validate the evaluation of the VM, the following tests must be passed. If this one fails, the VM evaluation is failed and finished.

- The size of the VM disk is 8 GB.

sudo fdisk -l

- There is at least one 4.2 GB partition.

- From the shell of the VM, run the command that lets you know if the OS and packages are up to date.
If you discover that the OS or packages are not up to date, this test has failed.

sudo apt-get -s upgrade
sudo apt-get update

- From the shell of the VM, run the command that allows to know which packages are installed. If you discover that docker/vagrant/traefik type packages are installed, this test has failed.

dpkg -l | grep docker
dpkg -l | grep vagrant
dpkg -l | grep traefik

☑ Yes ☒ No

Network and Security Part

Here we evaluate the Network and Security Part.

Network and Security

We are going to check in this section if the VM network is correctly configured. To validate this part, those seven tests has to be successed. If one of those tests is failed then all the Network Part is failed and stopped.

- Ask the evaluated person to create a user with SSH key to be able to connect to the VM. He must be part of the sudo group. If it's not in this case, this test is failed.

ssh lnoisome@127.0.0.1 -p 2222

- If this user executes the sudo command he must be able to use commands that require special rights. If this is not the case, this test is failed.

- Check that the DHCP service of the VM is deactivated If not, this test is failed.

- Choose a different netmask than /30, ask the evaluated person to configure a network connection with this netmask on the host and guest side. The evaluated person will choose the IPs. If it is not successful, this test is failed.

https://www.net.princeton.edu/iprouters.html
http://jodies.de/ipcalc

- From a shell on the VM, check that the port of the SSH has been successfully been modified. SSH access MUST be done with publickeys. The root user should not be able to connect in SSH. If this is not the case, this test is failed.

ssh lnoisome@127.0.0.1 -p 2222
ssh root@127.0.0.1 -p 2222
su ak@127.0.0.1 -p 2222

- From a shell on the VM, run the command that lists all firewall rules. If no rules are in place or that it is not sufficient in relation to the request from the subject, then this test is failed.

sudo ufw status

- From a shell on your computer, run the command that allows you to to test a DOS (Slowloris or other). Check that everything is still working. In addition, make sure that a Fail2Ban service (or similar service) is installed on the VM. If this is not the case, this test is failed.

sudo systemctl status fail2ban
DOSa

- From a shell on the VM, run the command that lists the open ports. Check that the open ports correspond to the subject's request. If not, this test is failed.

sudo ufw status numbered

- Check if the active services of the machine are only those necessary for its proper functioning. If not, this test has failed.

nmap --open localhost

- Check that there is a script to update all sources of package, packages, which log into the right file and that it is in cron. If this is not the case, this test is failed.

cat /etc/cron.d/autoupdt.sh
cat /etc/crontab

systemctl status cron

- Check that there is a script to monitor the changes in the file /etc/crontab and sends an email to root if it has been modified. You must therefore receive an email showing that the file has changed, either locally with the mail order, either in your own mailbox. If not, this test has failed.

cat /etc/cron/check_news.sh
cat /etc/crontab

- Check that there is self-signed SSL on all services. If this is not the case, this test is failed.

cat /etc/nginx/snippets/self-signed.conf

cat /etc/ssl/certs/nginx-selfsigned.crt
cat /etc/ssl/private/nginx-selfsigned.key
cat /etc/ssl/certs/dhparam.pem

☑ Yes ☒ No

Web Part

Here we evaluate the Web Part.

Web Server

We will check in this section that the web server is implemented on the VM. To validate this part, the next three tests must be passed. If at least one of them of them fail, the Web server evaluation is failed and finished. Proceed to the next section of the scale.

- From a shell of the VM, check that the package of a Web server is installed. If this is not the case, this test is failed.

ping localhost -p 8001
ping localhost -p 4433

- From a shell of the VM, check that there is only one active configuration on the web server and not the default one. In addition, it should not "Listen" on the localhost of the VM. If it is not respected, this test has failed.

- Check that the web application corresponds to what is required in the subject and is available on any browser on the IP of the VM or a host (init.login.fr for example). If it's not the in this case, this test is failed.

☑ Yes ☒ No

Deployment Part

Here we evaluate the Deployment Part of the VM.

Deployment Part

We will check in this section that the deployment is going well. To validate this part, the following two tests must be succeed.

- Ask the student to explain how he chose to do the deployment and why he chose this solution.

- Make a minor modification on the site to ensure that the deployment is working well.

☑ Yes ☒ No

Ratings

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

✔ Ok

Empty work | Incomplete work | Cheat | Crash

Conclusion

Leave a comment on this evaluation

Finish evaluation