SCALE FOR PROJECT CLOUD-1 (/PROJECTS/CLOUD-1)

Introduction

We ask you for the good progress of this evaluation to
respect the following rules:

- Be courteous, polite, respectful and constructive in all
situations during this exchange. The bond of trust between the
community 42 and you depends on it.

- Highlight to the person (or group) noted the
possible malfunctions of work done, and take the time
to discuss and discuss.

- Accept that there may sometimes be differences
of interpretation on the subject's requests or the scope of the
features. Stay open-minded about
the other's vision (is he or she right or wrong?), And write down the most
honestly possible. The pedagogy of 42 only makes sense if
the peer-evaluation is done seriously.

Guidelines

- This project requires the correction of external resources to 42, in addition to
the usual GIT repository of the student. He will have to log
in as root as possible to the service he has chosen, his
root account must be his email student or login. In the
opposite case, indicate a case of cheating, and the defense stopped.

- Make sure that the GIT repository is the one
corresponding to the student or group and the project.

- Meticulously verify that no malicious alias has been used
to mislead you and have you evaluate anything other than
the content of the official repository.

- Any script that is supposed to facilitate the evaluation provided by one of the two parties must be rigorously checked by the other party to avoid unpleasant surprises.

- If the corrective student has not yet done this project, it is mandatory for this student to read the whole topic before starting this defense.

- Use the flags available on this scale to signal an empty rendering, non-functional, a standard fault, a cheat case, etc. In this case, the evaluation is completed and the final grade is 0 (or -42 in the special case of cheating). However, except cheating, you are encouraged to continue to exchange around the work done (or not done precisely) to identify problems that caused this situation and avoid them for the next rendering.

- The defense stops at the first bad answer encountered. But you can of course continue to exchange around the work done.

Attachments

README_OR_DIE (https://cdn.intra.42.fr/pdf/pdf/3937/readme.fr.pdf)

Subject (https://cdn.intra.42.fr/pdf/pdf/5658/cloud-1.en.pdf)

General operation

Simple operation - front

Go to the student's website. Is the content displayed a site running wordpress? If you refresh the page multiple times, does the content remain the same (except for any visual identification of the server on which you are located)? Stroll through the pages, refresh the content, does it work? Is the IP of the current server on the page somewhere, and can each server be accessed using this IP?

Yes No.

Simple operation - infra

The student must prove to you that his / her site runs constantly on at least two separate servers, and that visitors are randomly redirected to any of these servers. It must show you that 2 servers are running well in parallel, and you must be able to check that you hit a hit, a shot on the other, randomly.

The database must be separate from the web instances.

Yes No.

Simple operation - CDN

To improve the performance of its site, static content must be loaded from a CDN mechanism. Check at least that the site CSS is loaded from any CDN. Ask the student to explain in a few words why a CDN significantly improves the performance of their site.

Yes No.

Simple operation - sessions

The student is logged on the administration console of his site. Do you always stay logged in, no matter which instance you fall on?

Otherwise, the defense stops.

Yes No.

Simple operation - synchronization of instances

The corrector goes to google images and selects any image of his choice, and uploads it to the desktop. Then create a new article in wordpress, upload the image and insert text and image into the article, then publish it. View the article, and then refresh the page to see it on both instances.

Does the text and image load well, at least within a reasonable time (a few seconds, not more than a minute)? Otherwise, the defense stops.

☑ Yes ☒ No.

Simple operation - schema

On the student's deposit is an architecture diagram. The student must explain to you how it works. Ask him, discuss.

If you are convinced, it's good. Otherwise, the defense stops.

☑ Yes ☒ No.

Scalability, High Availability, Security

scalability

Dans la console d'administration du fournisseur de votre infrastructure, montrez quels mécanismes vous avez mis en place pour supporter automatiquement hausses et baisses de trafic. Simulez une hausse de trafic de manière à lancer plusieurs nouvelles instances, puis rendez vous sur le site et vérifiez que le site est bien accessible sur ces nouvelles instances. Ensuite, supprimez les instances de manière à revenir aux deux instances de départ. Si un de ces points ne semble pas satisfaisant, la soutenance s'arrête.

☑ Yes ☒ No

Haute disponibilité

Simulez une panne matérielle d'une instance. Est-ce que le site tourne toujours ? Est-ce qu'une autre instance remonte automatiquement de manière à respecter la règle des "2 instances minimum" ? Si oui, 2 points, sinon la soutenance s'arrête là.

Si vous coupez les deux instances, est-ce que 2 nouvelles instances sont relancées automatiquement ? Si oui, 2 points, sinon la soutenance s'arrête là.

L'administrateur reçoit-il un email ou une notification quelconque en cas de problème ? Si oui, 1 point (sinon la soutenance continue quand même).

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

Haute disponibilité 2

Si la base de données devait également tomber, que se passerait-il ? Démo si possible, mais cela peut prendre un peu de temps, donc la théorie, correctement étayée, peut suffire.

Si tout est géré automatiquement, 5 points.
Si des actions manuelles sont nécessaires sans pertes de données, 3 points.
Si des actions manuelles sont nécessaires avec pertes limitées (< 24h) de données, 1 point.
Si tout est perdu, 0 point, mais la soutenance continue.

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

Sécurité

Quels dispositions ont été prises par l'utilisateur en matière de sécurisation de son contenu ?
Seuls les ports 80/443 (HTTP/HTTPS) devraient être accessibles depuis l'extérieur sur les instances. Le port 22 (SSH) devrait au moins être bloqué sauf depuis des IP prédéfinies.
La base de données doit être accessible uniquement sur le port nécessaire à son fonctionnement et uniquement depuis les instances du site.
Si d'autres mécanismes de sécurité sont présents, c'est cool, discutez-en.

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

Maitrise des coûts

L'étudiant a-t-il dimensionné correctement ses instances (serveur web, base de donnée...)? L'intégralité de ce projet doit pouvoir se faire sans dépasser la limite des crédits offerts par le fournisseur de services, voire même dans certains cas sans utiliser ces crédits (free tier ou équivalent).

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 | No author file | Invalid compilation

Norme | Cheat | Crash | Incomplete group | Forbidden function

Conclusion

Leave a comment on this evaluation

Preview!!!