Development Tips

Software Architecture

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What did we *learn* from the cloud assignment?

Question

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Answer

Cloud development is *painful*?

How can we make this *less* painful?

1. Gain confidence through *testing*
2. *Automate* what you're repeating
3. *Tighten feedback loop* as much as possible
4. *Log and monitor* what you can

§ *Testing*

Test-driven development

TDD in theory

[Marsner, 2019]

What do you primarily get from TDD?

1. Regression tests (confidence)

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2. Small isolated components

Do you have to use TDD to get these benefits?

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No.

Question

Do you have to use TDD to get these benefits?

Answer

No. But it can make it easier.

When should you write a test?

Question

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Answer

Whenever you are checking manually something often

- Checking the endpoints your API.

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- Checking a feature in the frontend of your interface.

§ Automation

- Running tests.

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Tighten feedback loop as much as possible

§ *Feedback Loops*

- Containers

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- Local database (docker-compose)

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- Local database (docker-compose)
- Local cloud services (e.g. S3)

Log and monitor what you can

§ Log and Monitor

Refer to week 9 content

Enable CloudWatch on EC2

Environment variables

References

[Marsner, 2019] Marsner (2019).
Why test-driven development (tdd).
https://marsner.com/blog/why-test-driven-development-tdd/.