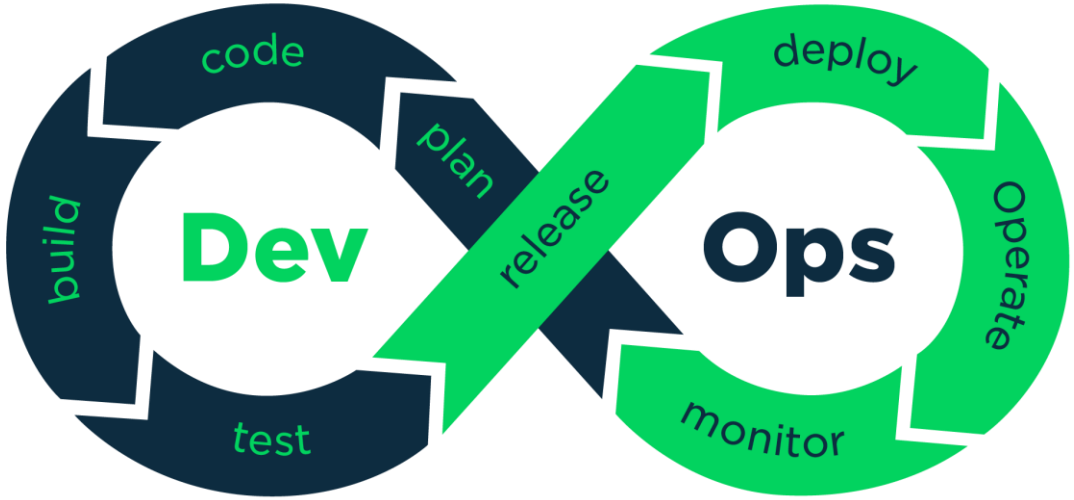
{EPITECH}

DevOps and module presentation

Kick-off

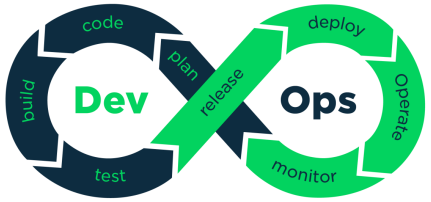
About DevOps



- Developers write code.
- Operators make sure the infrastructure is working.
- DevOps is about:
  - Making everything united.
  - Keeping everyone happy.

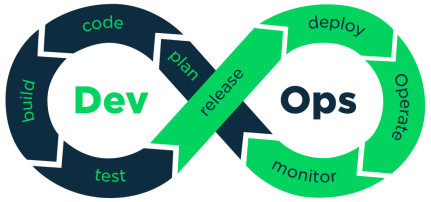
About DevOps

- It’s mostly a set of best-practices between devs and sys admins.
- DevOps = system administrators offering tools to developers for:
  - Improved autonomy.
  - Faster workflow from development to production.
  - Less frustrations and better developer experience.
  - Get a better visibility on the availability of infrastructure.
- DevOps engineers will likely not replace system administrators.



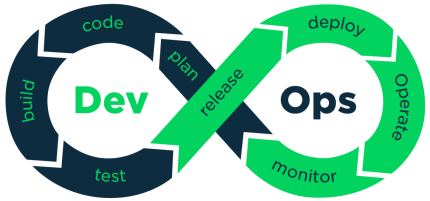
Use-case 1: Reproducible test environment

- You embed source code, runtime and dependencies in standard containers.
- A system administrator runs the containers (with whatever is inside) in production.
- Same behaviour for everyone.
- No more excuse such as: “But it works on my machine! :(”



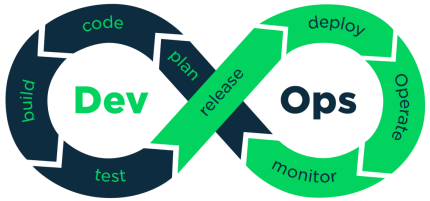
Use-case 2: Continuous Integration

- You specify how to compile and build your program.
- A system administrator provides an automation platform.
- Whenever you push to your repository, it checks everything for you.

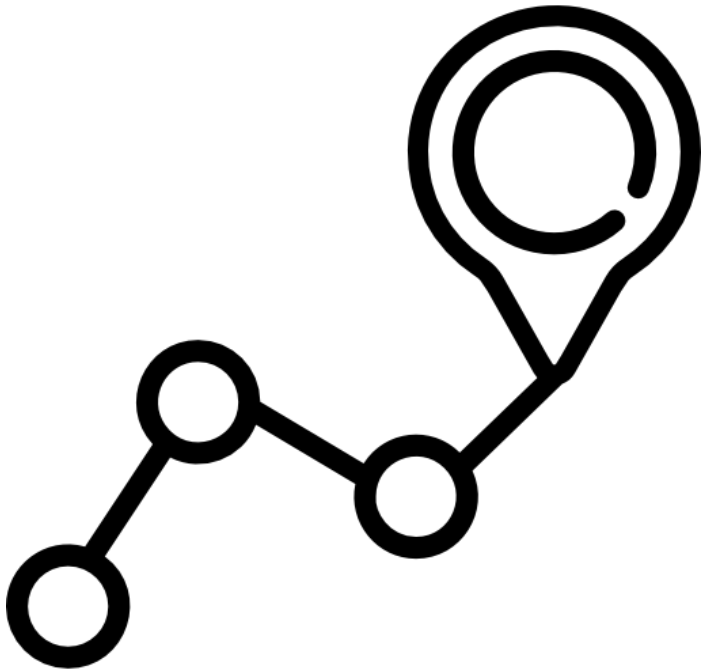


Use-case 3: Resilient applications

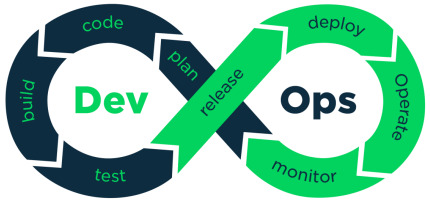
- A system administrator builds a multi-node infrastructure.
- It has some specific orchestration features.
- You deploy and never get worried if something breaks.



DevOps track

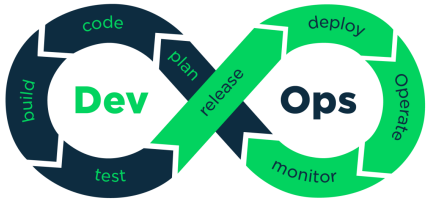


- 3 awesome projects.
- It will help you in your other projects.
- It will facilitate your future work.
- *Make sure you understand every notion in each project.*



Best practices

- Read the Twelve-Factor App to become “DevOps-read”.



Des questions ?