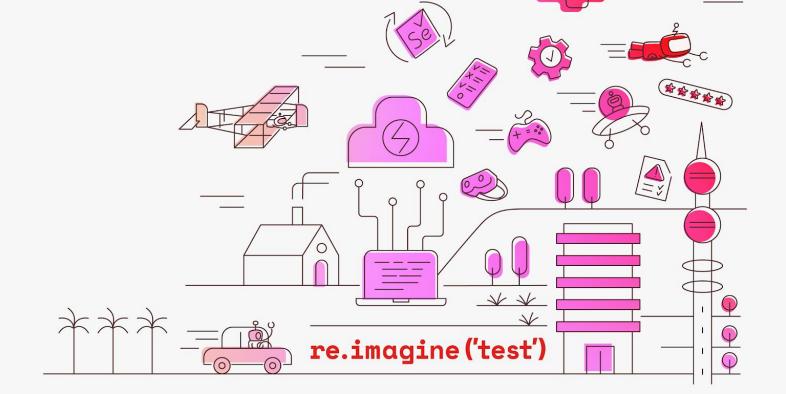


Integrating contract tests in a continuous integration pipeline

Julian Vargas | Engineering Manager API Testing

May 3, 2022





Contract Testing

Julian Vargas | Engineering Manager API Testing

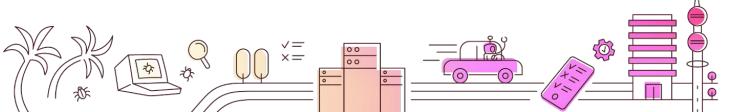




Overview - Contract Testing

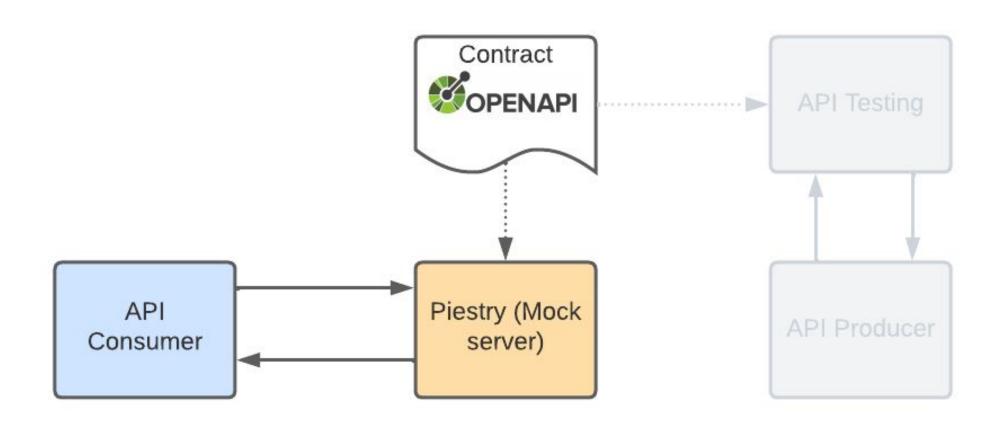




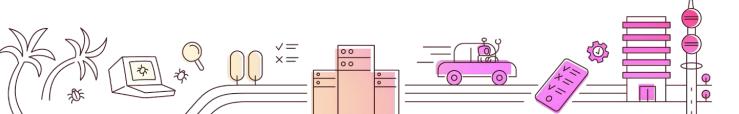


re.imagine ('test')

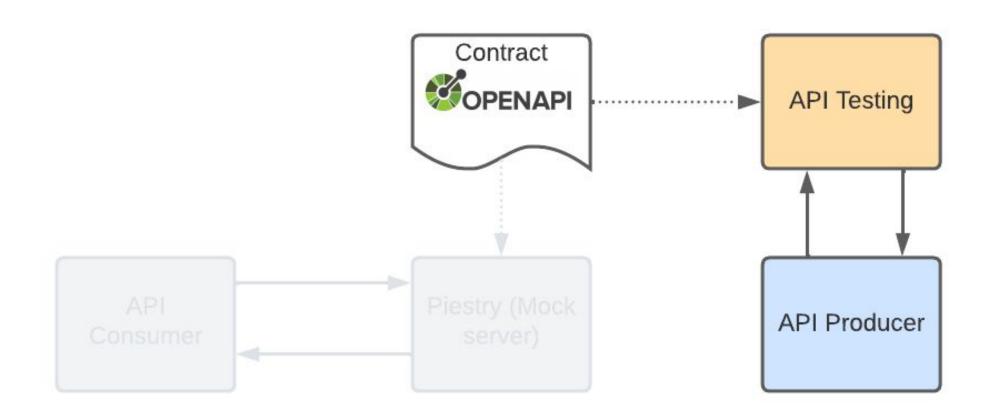
Implementing the consumer side



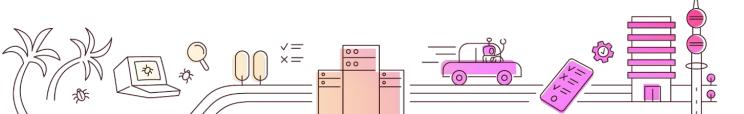




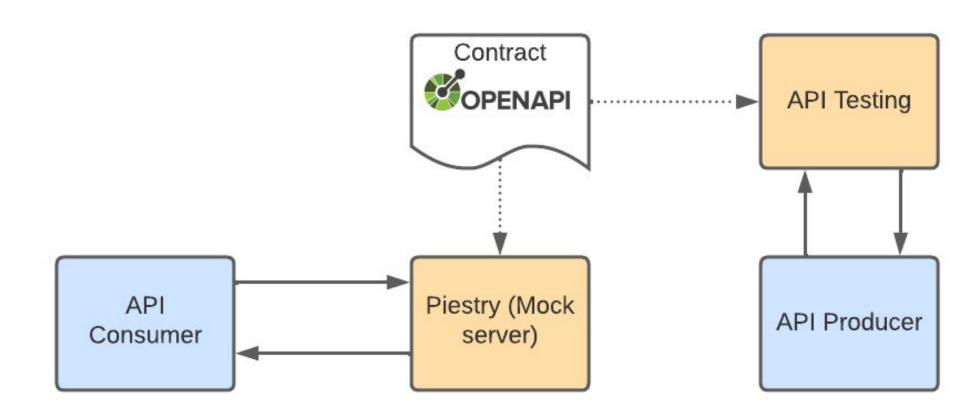
Implementing the producer side



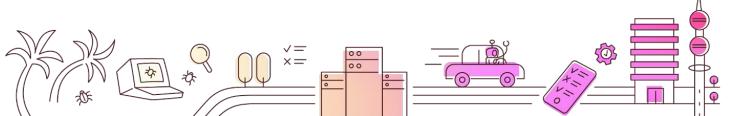




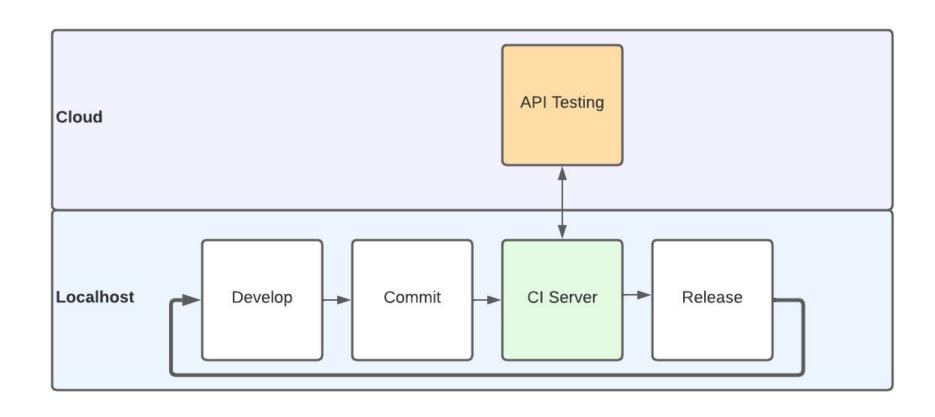
Overview - Contract Testing



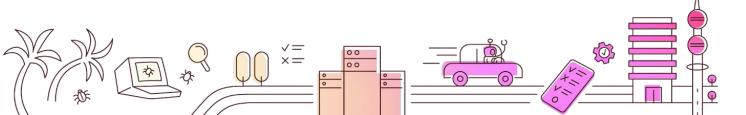




Overview - Continuous Integration





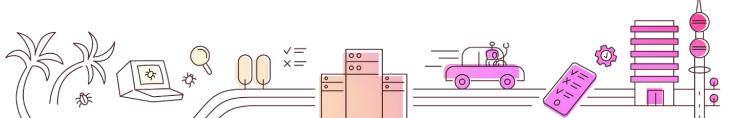


We will need

An active SauceLabs account

- SauceConnect
 We need to expose our localhost to the cloud.
- 3 Deno
 The example application will be written in Typescript running on Deno
- 4 Git SCM
 For version control and for setting up our CI Server





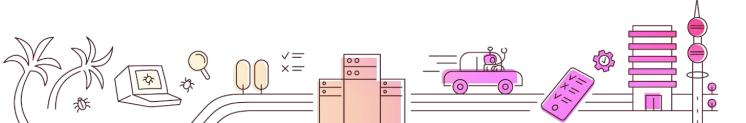
User story

As a user, I want to be able to know which is the best sauce to use for a given food so that I can enjoy my food in the best possible way.

Acceptance criteria

- command-line application that will receive a food name and will print in the terminal the name of the best sauce for that given food. For example "\$ sauce_for 'fries'" will print "ketchup"
- This application will consume an HTTP API with one endpoint `/sauce` with a mandatory query parameter `? for` that will contain the name of the food.
- The API will return a JSON document with *only one property* `sauce_name` containing the name of the best sauce for the given food, for example `{sauce_name: "ketchup"}`.
- The **Server** will expose the endpoint `http://localhost:8000/sauce/` and for any GET request received it will use the query string parameter `for=` to read the food and respond with the best sauce.



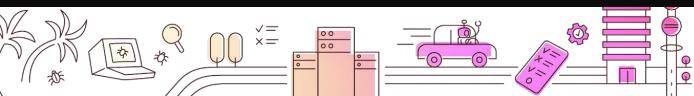


Folder structure

git clone git@github.com:julianvargasalvarez/sauce-recipe.git

```
sauce-recipe
    sauce-client
        sauce-contract.yml
        sauce.test.ts
        sauce.ts
    sauce-server
        sauce-server.ts
        sauce.test.ts
        sauce.ts
        tunnel.yml
    test-suite.sh
```

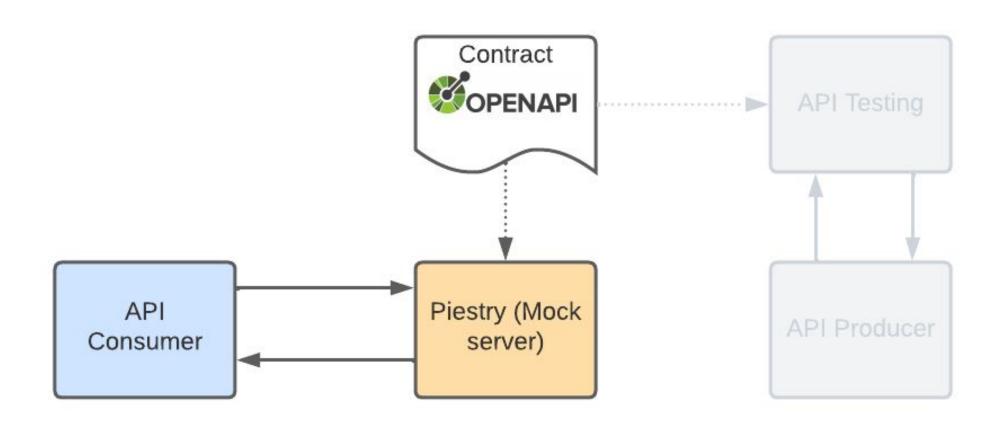




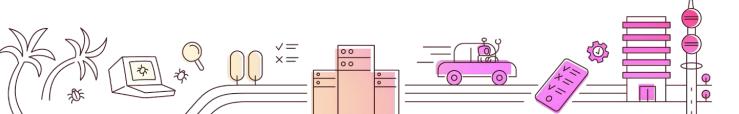
Let's start with the consumer side



Implementing the consumer side

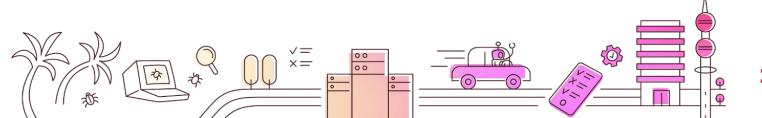






What have we accomplished so far?

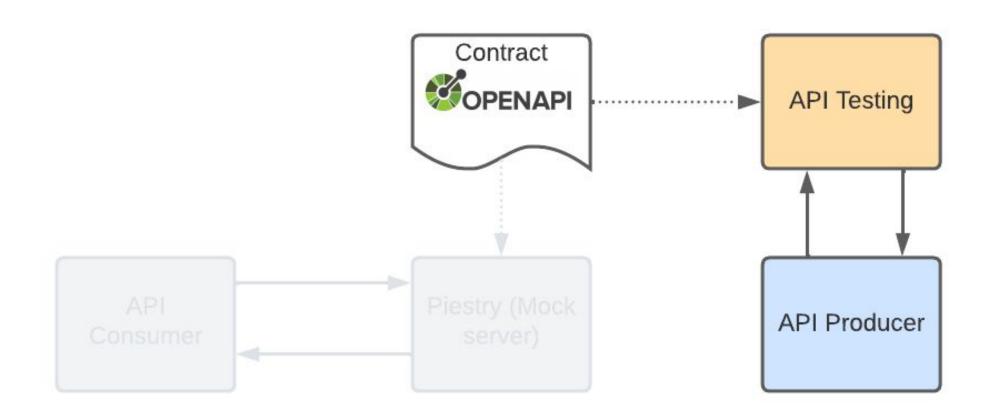
- 1 We have implemented a client application emulating the server side using Piestry
- We have implemented a contract from the consumer side point of view.
- 3 We have integrated contract testing from the consumer side in a Continuous Integration pipeline



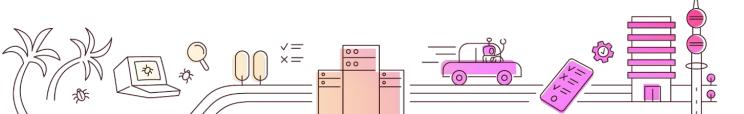
Now the producer side



Implementing the producer side





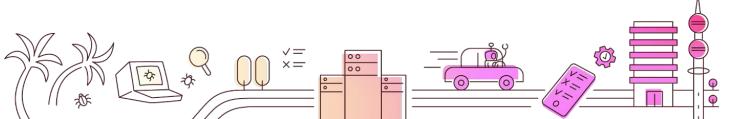


What have we accomplished so far?

1 We have implemented the producer side

- We have tested the contract from the producer side integrating SauceLabs API Testing
- 3 We have a fully integrated Contract Testing workflow within our Continuous Integration pipeline





Thank You



