PR D PERFECT

A False Sense of Security

Rethinking E2E Testing and API Monitoring for a New Breed of Uptime, Performance, and Security

Erik Fogg

CoFounder & CRO, ProdPerfect

Patrick Poulin

CoFounder & CEO, API Fortress

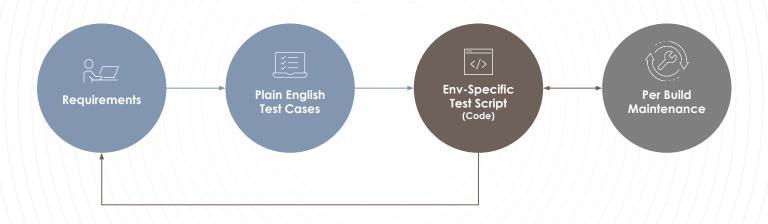








Quality Assurance: The Typical Industry Cycle







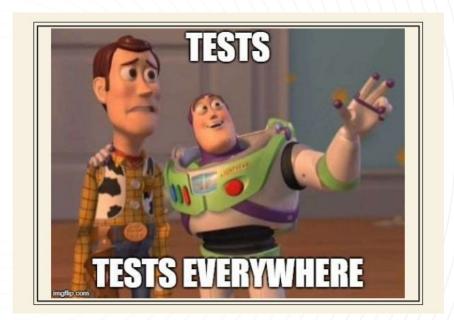


Output:

The Typical Formula

Output = Number of tests written + maintained

→ More tests = more QA = better



As a result... Prioritizing testing is difficult.

Two different teams get two different test suites:





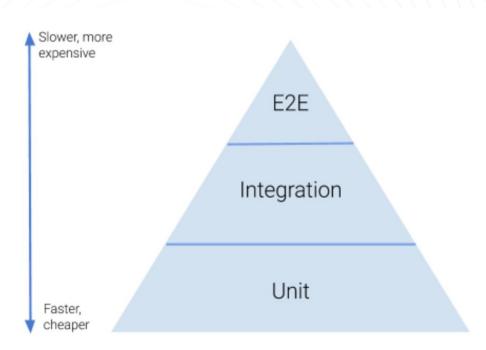


- 1. Missed critical bugs
- 2. Higher
 maintenance costs
 of many
 lower-value tests
- 3. High runtime → fewer test runs

@gil_zilberfeld

But, **E2E testing requires fierce prioritization**.

- Not all features are equally valuable to test.
- Not all E2E tests are equally valuable to have.
- 3. You need a smaller E2E test suite to provide better- fidelity QA.



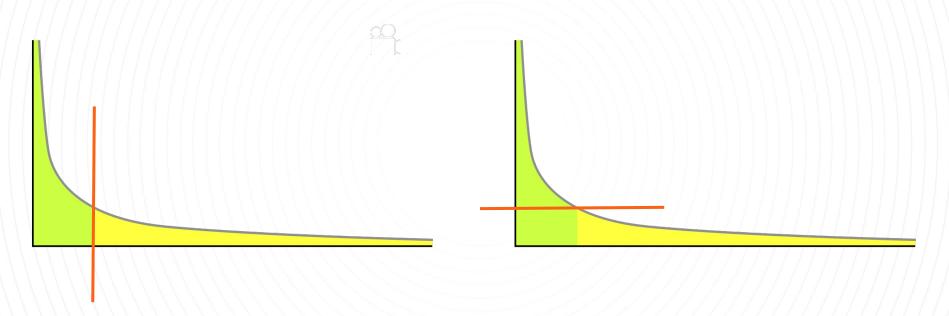




The Good News... The data you need exists.

- Users are already telling us exactly how they want the application to work
- We can test to make sure their priorities always work
- "Just" collect the data and analyze it

What Really Matters to Users: Head vs. Long Tail

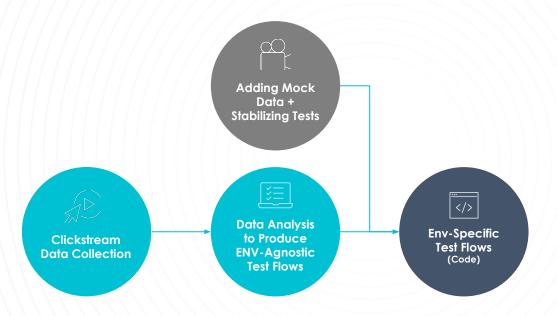






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OUR TEST DEVELOPMENT PROCESS

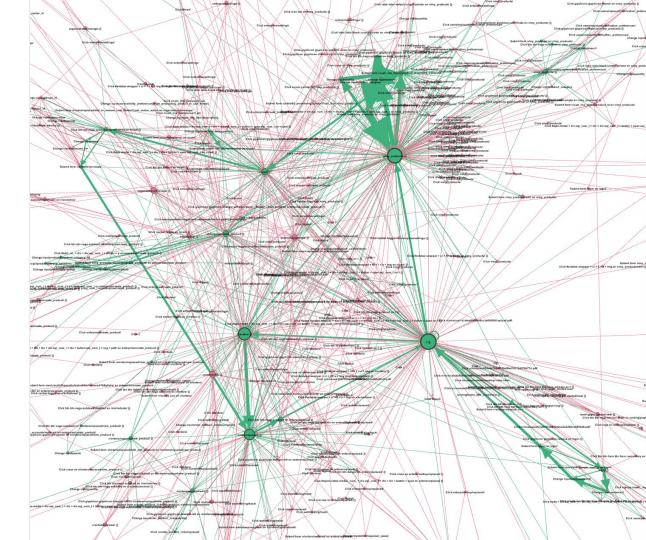






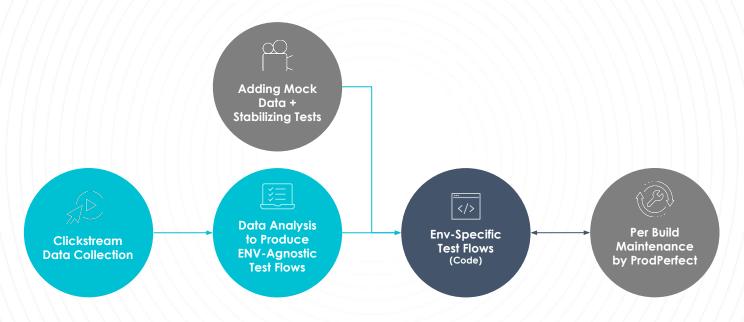


2 Total Coverage



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OUR TEST DEVELOPMENT PROCESS



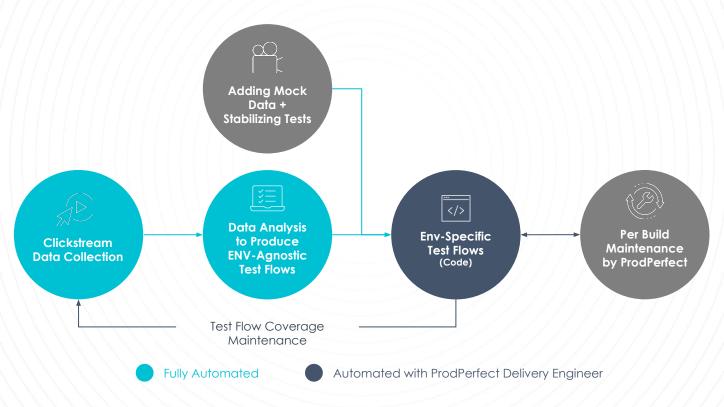






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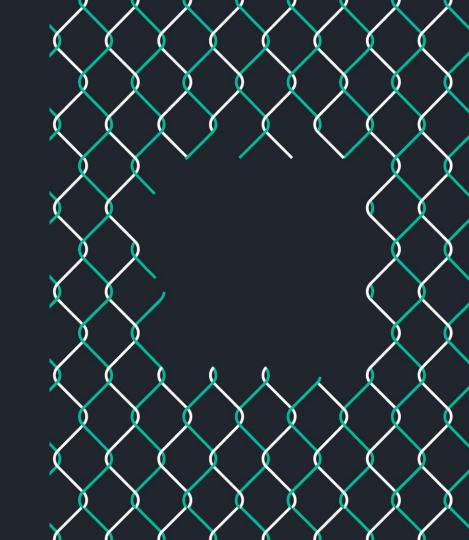
OUR TEST DEVELOPMENT PROCESS





API Testing & Monitoring A False Sense of Security

Patrick Poulin patrick@apifortress.com



What's A Good API Monitor?



Security

Akamai's State of the Internet report (pdf) found "83% of all web traffic in 2018 was in API traffic."

"Through 2022, at least 95% of cloud security failures will be the customer's fault."

Jay Heiser, VP at Gartner



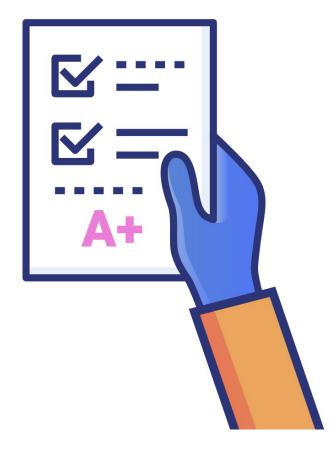
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   ▼ "flights": [
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                "id": 912,
               "name": "Alitalia",
                "one vector": false
          ▼ "from": {
                "label": "Venice",
```











What's a Good API?

Passes Automated Tests 99.9% Functional Uptime



Functional Errors & Uncaught Downtime



Security



Twitter 17 million accounts



India 1.1 billion identities



USPS 60 million personal account details



Who Owns API Functional Uptime?

















Monitoring Platform Shortcomings:

1. "Synthetic Testing"

A euphemism for minimal API testing capabilities

2 User Profile

People in charge of the monitors aren't testing professionals.

3. Using a Different Platform

Tests are written outside of QA by stakeholders with little/no domain knowledge

4. Test Intelligence

Tests must capture real consumer flows or user behavior



Problem in a Nutshell

On-Demand API Monitoring







End to End **Testing**





On-Demand Functional Tests and Monitors for **Your APIs**

Go beyond uptime with functional uptime: a better metric for continuous API quality and reliability

View Solution Brief



Which Applies To You?

Whether just starting your journey to improve API quality or optimize your monitoring strategy, our on-demand API functional monitors can be ready out-of-the-box to accelerate your path without needing to increase IT resources.







Let's talk ROI.





REDUCE RISK

- Partner with specialists
- Catch a wider range of API bugs and vulnerabilities
- 95% of API breaches caused by human error
 - Catch and fix functional errors before going live

INCREASE OPS EFFICIENCY

- Increase regression testing without increasing IT resources
- Shorten test sprints by 40% or more
- Accelerate time to market
- Improve cross-team collaboration

Q&A

