



# Good API Testing

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ORACLE® +  apiary



**301,122**  
HEROES

ARE WORKING ON

**401,023**  
APIS

BEING CONSUMED BY

**3M+**  
DEVELOPERS



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# Motivation

# Prevent defects!

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# Are you delivering the right thing?

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**Will the thing work in the  
surrounding environment?**

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**Is the thing still doing the  
expected?**

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**I have no idea what's the  
thing even supposed to do.**

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# Massive automation!

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# Actors

- Server Implementation
- Client Implementation
- API Design Specification
- API Style Guide

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# Environments

Local > CI/CD >  
Staging >  
Production

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# Environments

- Local development
- Continuous Integration and Delivery
- Runtime Staging, Production, On-Prem

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# Strategies and tools

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# Traffic debugging and logging

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# Man In The Middle interception



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# Traffic (request) generation and replay

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# Traffic API Design validation

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# API Design testing

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# **Workflow validation, integration testing**

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# Mocking

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# **Sandboxing, Disposable Environments**

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# **Service & Environment virtualization**

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# Contract testing



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# Runtime (active) monitoring

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# Passive monitoring

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# Filtering

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# **Architectural smoke tests, chaos testing**

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# **Legal and security compliance testing**



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