**SauceLabs**

# Checklist: Achieving API Quality at Speed

**Increase API confidence and insights. Reduce API risk in every part of the lifecycle. Unlock true quality engineering in your toolchains.**

## Detect API Bugs With Confidence

Whether writing complex tests or instantly generating tests, ensure high API observability in every test built by every stakeholder across your organization.

- ☐ Generate contract tests from OpenAPI spec files; easily extend the contract tests from schema validations to functional validations with positive and negative assertions.

- ☐ Write functional API tests or generate from OpenAPI specs, Postman Collections, HAR files or HAR files from RDC jobs

- ☐ Easily chain functional tests into integration tests that check whole API consumer flows

- ☐ Significantly reduce the risk of false-negatives with increased API observability (Read eBook)

- ☐ Detect API bugs in any environment

- ☐ Securely test and monitor internal APIs with limitless scalability via Sauce Connect

## Debug API Bugs With Confidence

Eliminate bottlenecks and capture more bugs early. Reuse API tests created with high domain knowledge as functional and performance API monitors in production where bugs are the most costly and dangerous.

- ☐ Get detailed reporting about API errors; see historic API quality trends and make data-driven continuous improvements across projects, teams, builds and pipelines

- ☐ Quickly understand error reporting with detailed dashboards and reports

- ☐ Use the whole Sauce Labs platform to get detailed reporting about bugs across API, UI, devices and apps; identify where errors happened and get details on how to fix the bugs quickly

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# Build APIs With Confidence

Gain the release confidence and visibility into historic quality trends to plan and launch microservices with higher scope and reliability.

- [ ] Generate API mocks and contract tests for inline validations, reducing risk early and reducing the need to maintain large suites of functional and end-to-end tests

- [ ] Load test new APIs to validate performance and potentially root out memory leaks

- [ ] Simplify handoffs to testers, analysts, monitoring, product and other teams to facilitate quality-at-speed

- [ ] Extend functional validations with data-driven testing

# Release APIs With Confidence

Go beyond uptime to find costly bugs that only emerge in production. As features move closer to production, test flakiness may increase due to siloed processes raising the risk of human error. Sauce Labs solves this "test bias" problem by abstracting visibility across all API testing happening across the organization into a single pane.

- [ ] Reuse API tests as API monitors in production environments, handling live data with superior observability over synthetic or performance monitors

- [ ] Capture results from all API testing and monitoring across your organization in a centralized dashboard

- [ ] Enable managers to oversee internal and external testing teams

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# Sauce Labs API Testing and Monitoring Platform | Core Capabilities

### API Functional and Integration Testing

Get started quickly with an intuitive Test Composer or auto-generate contract tests that can easily be extended into functional and integration API tests. Turn databases into APIs for accurate data-driven testing in a CI pipeline.

### API Monitoring

Go beyond uptime monitoring to transform the SLA performance of internal and third-party APIs. Reuse API tests as functional monitors that can be executed via a built-in scheduler for complete control of API monitoring in any environment.
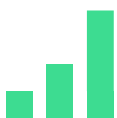
### API Mocking

Leverage API mocking to kill pipeline dependencies, and shift API testing left as early as design. Write API tests in parallel with API development even when services are unavailable or rate limited. Build API mocks manually or automatically from live API traffic.

### Contract Testing

Generate provider and consumer-driven contract tests from OpenAPI specs or Sauce Labs RDC/VDC mobile tests. Validate whether changes to specs will be accepted by the producer and whether problems may arise if they are accepted. Quickly find and fix human error in OpenAPI spec files.

### Load Testing

Reuse API functional tests as load tests during development to validate API performance under stress and various traffic patterns–as well as to see how stress may change or disrupt API functions. Run the tests as monitors in production to further manage performance risk at massive scale.

Sign Up for a free Sauce Labs trial to start using Sauce Labs API Testing today! Find everything you need to get started in our API Testing Documentation including **Sauce School** with API testing tutorials, videos, test examples, and best practices.

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