



## Levo saves 90% of time on integration tests, improves developer efficiency with Signadot

Levo needed to improve code reliability and increase developer efficiency with integration testing

### THE CHALLENGE

Levo helps customers take control of API sprawl and proactively mitigate API risk. Customers can ship secure and resilient APIs into production without compromising on speed.

Levo was running tests on a shared staging environment for their microservices, but it was not sufficient to maintain in their high quality software stack. They were finding bugs and issues after merging, requiring rollbacks and wasting time to remediate the problems. Because their staging was shared, troubleshooting these bugs made development painfully slow.

Knowing the investment and learning curve required for their team to build such a system in-house, Levo needed a turnkey solution that could easily integrate into their existing stack.

### THE SOLUTION

Signadot's simple integration and cost effectiveness ultimately drove Levo to purchase Signadot.

Levo was able to integrate Signadot and have everything up and running in a few days. Levo integrated Signadot into their CI pipelines to spin up a Sandbox environment for pull requests. They run automated end-to-end tests using Python and manually verify behavior via the Web UI. After implementation, Levo was able to build

# LEVO

### Challenges

- Kept finding bugs and issues after merging to staging, requiring frequent rollbacks
- Needed a solution to test end-to-end in a realistic environment that closely mimics production

### Solution

- Integrated Signadot's lightweight environments for testing in a few days
- Built additional debugging tooling to catch and resolve issues early in the development lifecycle

### Results

- Reduced time spent on integration testing by 90%.
- Developers can self identify issues, debug them immediately, and fix them before deploying to production.



additional tooling on top of Signadot to increase developer productivity. They added debugging system, which allowed developers to find issues and debug directly in the Signadot environment.

*“I want staging to be in a state where I’m able to push to production any day I want. The quality should be as good as prod so that I don’t have to do more work after merging. This is exactly what Signadot allows us to do today. We’re now running tests before merging, which means cleaner code and fewer rollbacks.”*

*-Buchi Reddy, CEO, Levo*

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“I’m concerned with how much time my development team is spending on integration testing new features until they’re confident to merge new features. With Signadot, I can add a new or existing API endpoint and reduce my testing time by 90%.

**Srinivasu Chinta**, Engineer, Levo

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## THE RESULTS

By adding Signadot to their deployment and review pipeline, Levo is able to spin up a Sandbox for every pull request and test end-to-end earlier in the developer lifecycle. Developers can now self identify issues, debug them immediately, and fix them before merging code.

Automated integration testing with Signadot allows Levo’s developer team to automate integration testing before merging code, without impacting other devs. This has given the team quality code with fewer rollbacks and 90% time saving for integration testing.

### About Levo

Levo is a developer first and API first security platform that uses machine learning models to automatically generate security tests that run continuously in CI/CD pipelines. This allows teams to take control of API sprawl & proactively mitigate API risk.

Learn more at: <https://levo.com/>

### About Signadot

Signadot is a Kubernetes native platform that provides lightweight test environments, called Sandboxes. Unlike traditional environments, Sandboxes use application level multi-tenancy to share resources while ensuring isolation. This allows engineering teams to create thousands of lightweight environments in Kubernetes to enable shift left testing for microservices. Learn more at: <https://www.signadot.com/>