



Schema-Based Testing

Automated security testing for the shift-left era

Wallarm Schema-Based Testing brings dynamic API security testing (DAST) into your CI/CD pipelines with zero-friction deployment — enabling your team to automate vulnerability detection during development and staging, before risks ever hit production.

Current Challenges

As organizations accelerate release cycles and expand their API ecosystems, traditional security testing tools struggle to keep pace:

- Legacy DAST tools are slow and generic, unable to keep up with fast CI/CD cycles
- Manual test creation is time-consuming and error-prone for complex API logic
- Lack of API-specific coverage — BOLA, BFLA, GraphQL-specific flaws go undetected
- Limited integration with developer workflows makes security testing feel disconnected
- No support for shift-left testing in pre-production or staging environments
- Inability to validate security posture for compliance (SOC 2, PCI-DSS) during development

What Is Schema-Based Testing?



Dynamic Application Security Testing

Simulates real-world attacks in staging and test environments — no manual scripting required.



CI/CD Integration

Works with GitHub Actions, GitLab CI, Jenkins, CircleCI and others — run in under 5 minutes per scan.



Zero-Friction Deployment

Docker-based deployment with no agent or deep platform dependency — ingests your OpenAPI or Postman specs directly.

What Does It Detect?

Input-Validation Flaws

RCE, SQLi, XSS, SSRF, Path Traversal

Authentication & Access

BOLA, BFLA, Broken Auth, Mass Assignment

API-Specific Issues

GraphQL field-level flaws, mutation abuse, schema misuse

Environmental Misconfigs

Debug endpoints, exposed dev APIs, verbose errors

Key Benefits

Automated Testing

Tests auto-generated from OpenAPI or Postman specs — no scripting, ideal as a PR gate or nightly check

Visual Issue Management

Review findings in Wallarm Console and export to Jira, GitHub, or Slack for developer triage

Compliance Ready

Proves security coverage for SOC 2, PCI-DSS, ISO 27001 on every build

Modern API Support

REST, GraphQL, gRPC — logic-aware testing that generic scanners miss entirely

Book a Demo

Shift security left — automate API pentests on every build, prove coverage for compliance audits, and catch business logic flaws in pre-production.

[Schedule a Demo →](#)