



Code to production API Security platform

eBPF - A game changer for discovering data flows

FOUNDER & CEO



BUCHI REDDY B

 APPDYNAMICS

 CISCO

 TRACEABLE.

 DE Shaw & Co

Agenda

The need for realtime API & Data Observability

Why current approaches fail

How our innovation bridges the gap

How we leverage eBPF

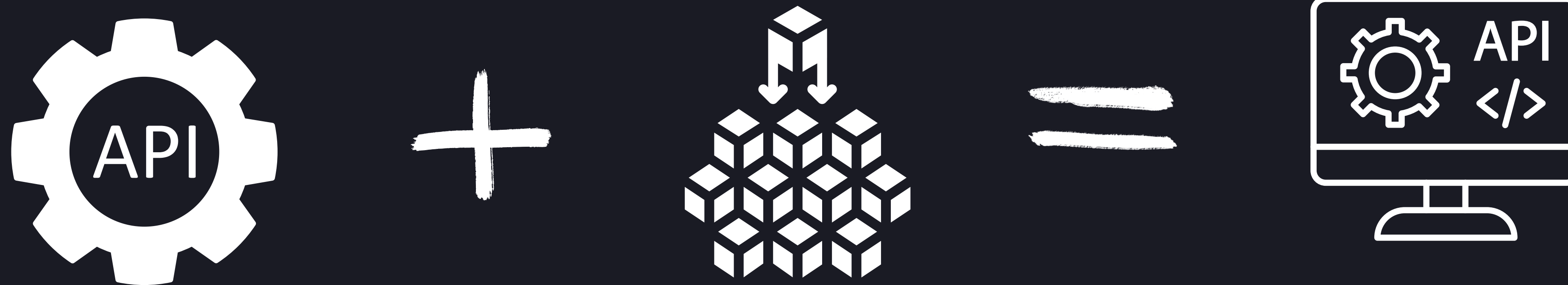
User Data Mapping with eBPF

Automatic Discovery, Documentation & Testing

Q&A

APIs & microservices have exploded

Great for business innovation but threaten data security

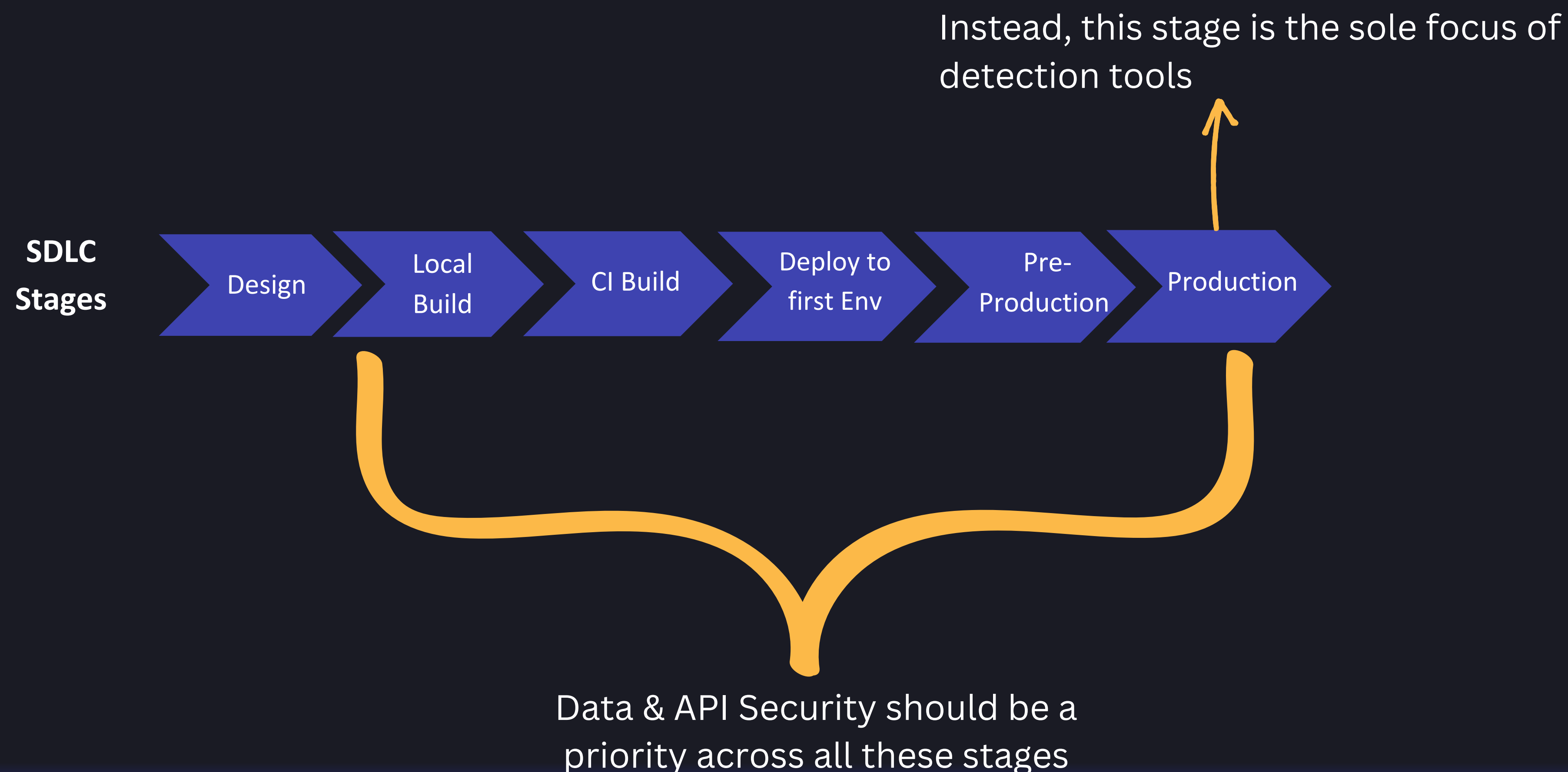


API Sprawl is a top concern
for 48% of enterprises

Yet there is no tool to gain visibility into APIs and data flows at scale

Thus vulnerabilities leak into production

Legacy tools aren't designed to prevent API- induced data breaches



Observability & Discovery - Foundational for API & Data Security

Difficult to achieve at scale as it requires:

Real-time API Discovery

An enterprise may have 5K-10K APIs & PBs of data, each with several parameters, making manual API spec writing and data security impossible

AuthN Automation

APIs could be authenticating in different ways and all those schemes have to be automated from API Discovery to Documentation, which leads us to Security

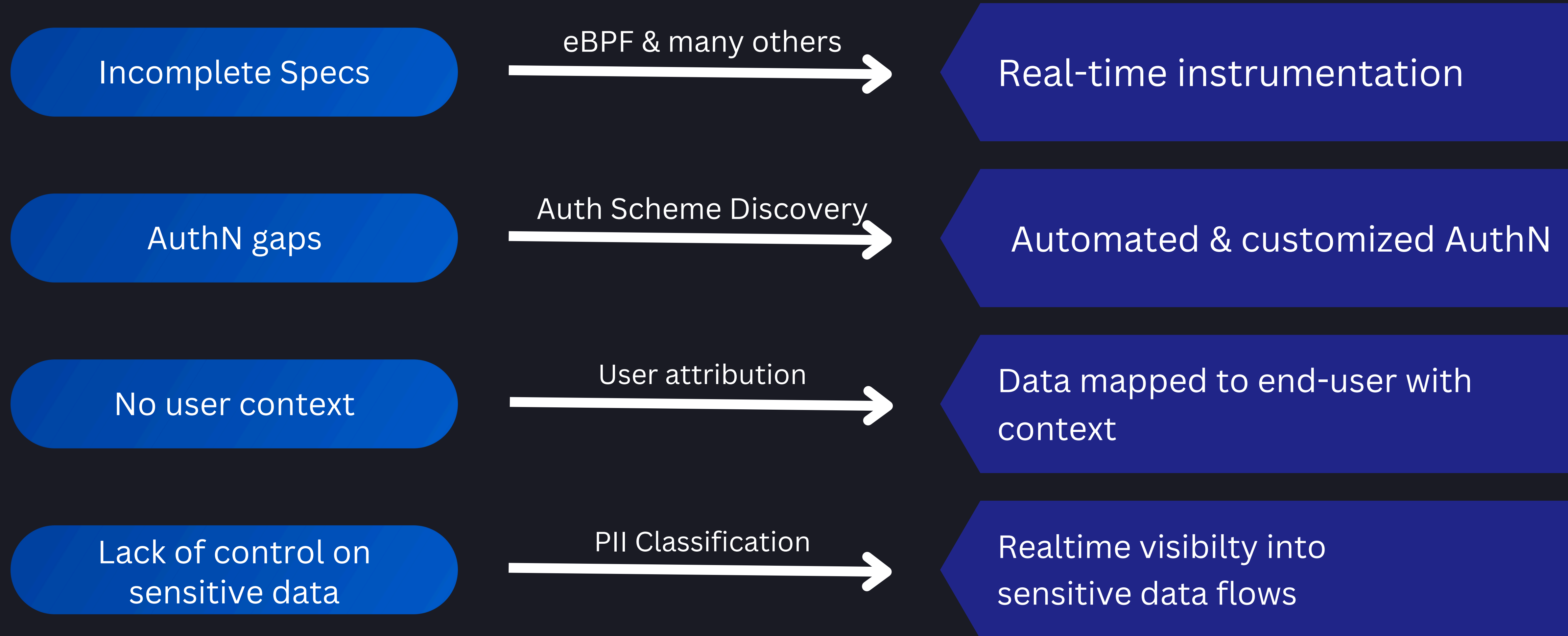
End User Context

Identity and access details of the end-user using eBPF and this is the foundation we lay to effectively Security test data & APIs at scale while also automating it

Sensitive Data Discovery

With the overflowing data sources within Enterprises, there is an uncontrolled exposure of Sensitive Data. Discovering Sensitive data and identifying their exposure across APIs is paramount

How we secure APIs and Data Access at scale

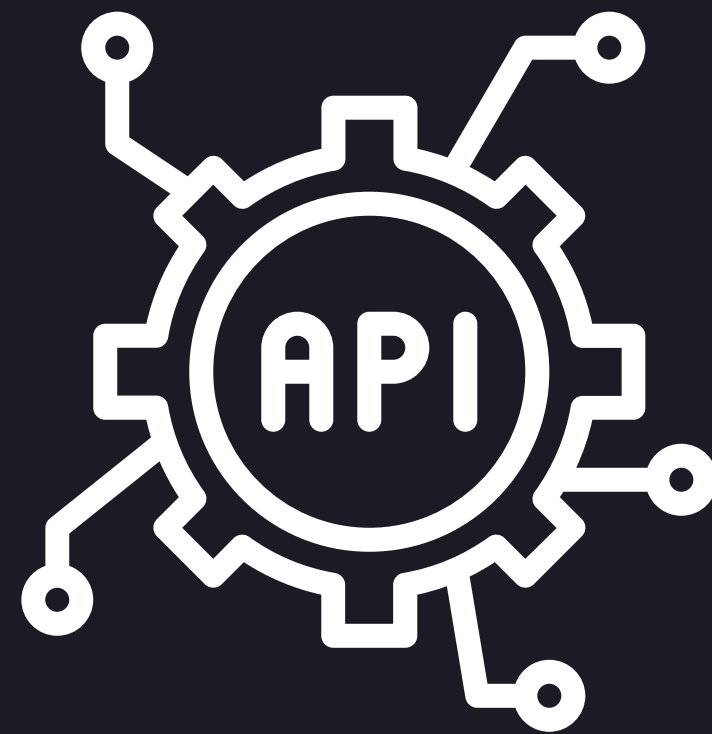


Building upon eBPF

How we have maximized the impact of this powerful technology:



API Usage insights
without depending on
application code
changes



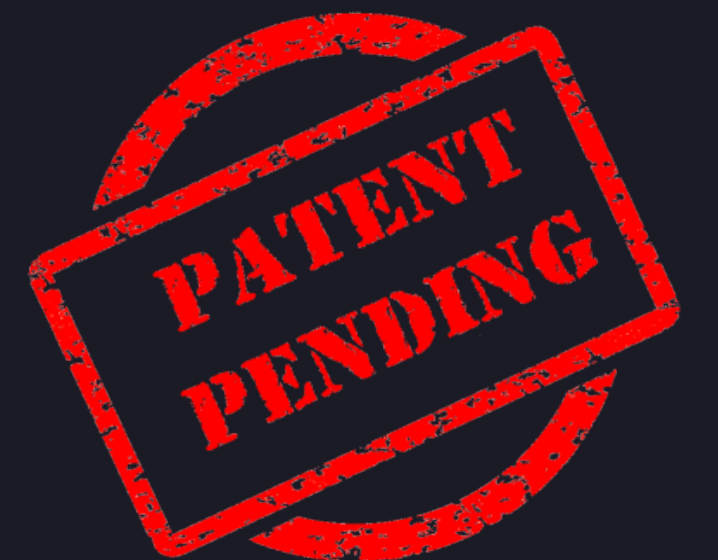
Automatic
identification of API
endpoints



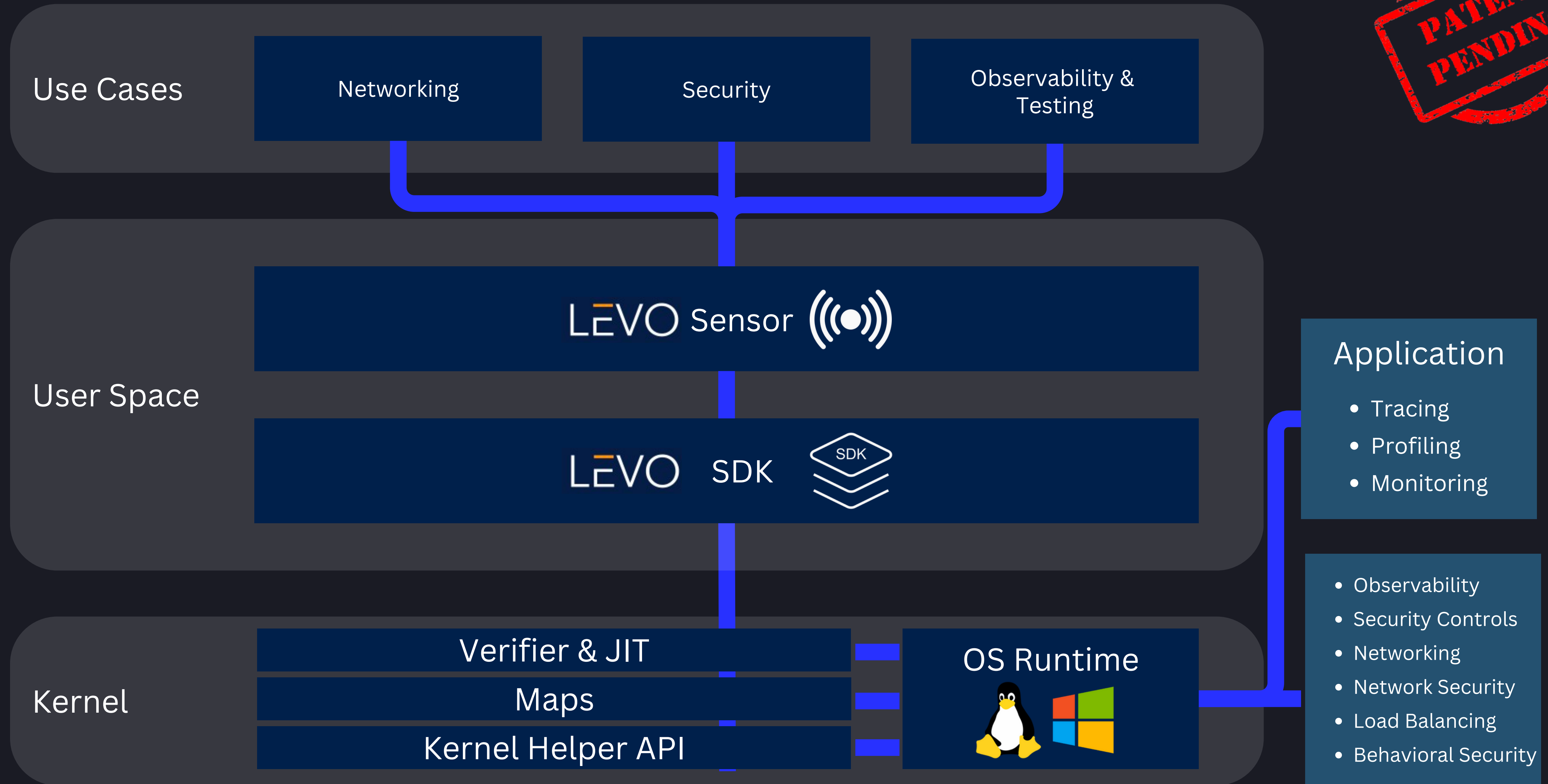
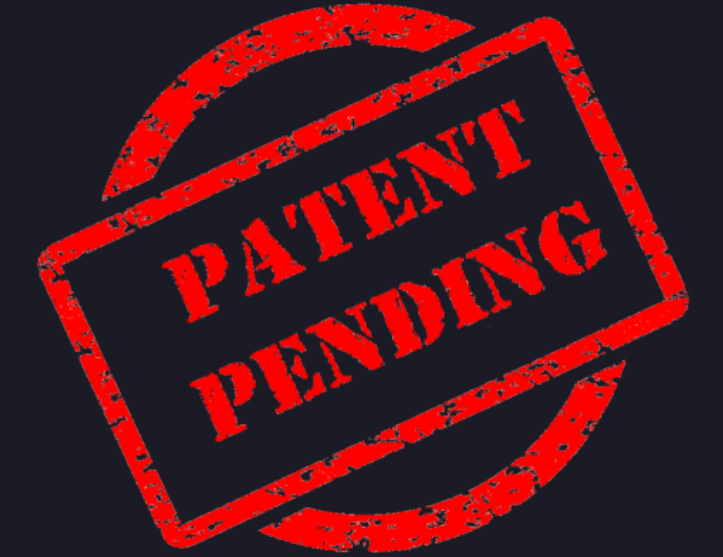
Enhanced visibility &
control over data, PII



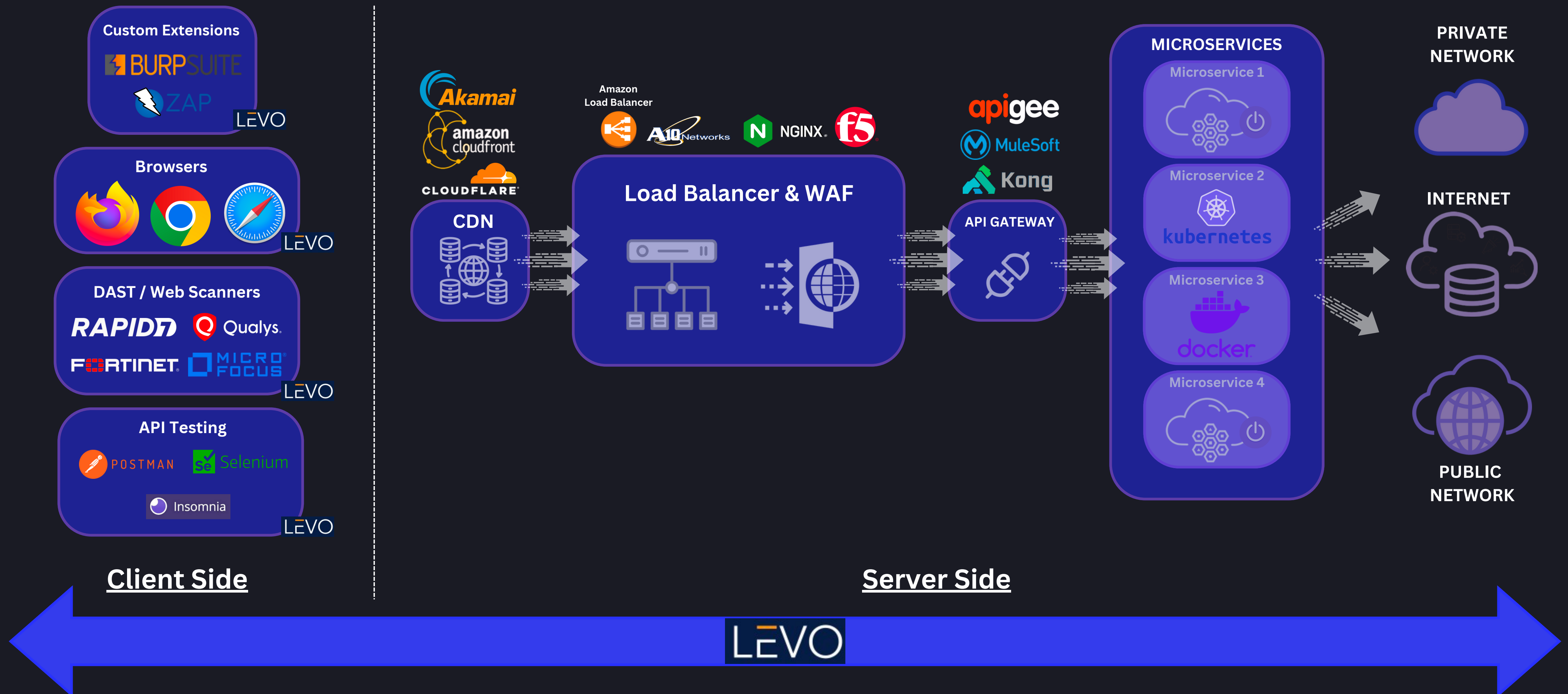
API Monitoring within
complex
infrastructures



Harnessing eBPF's magic for discovery

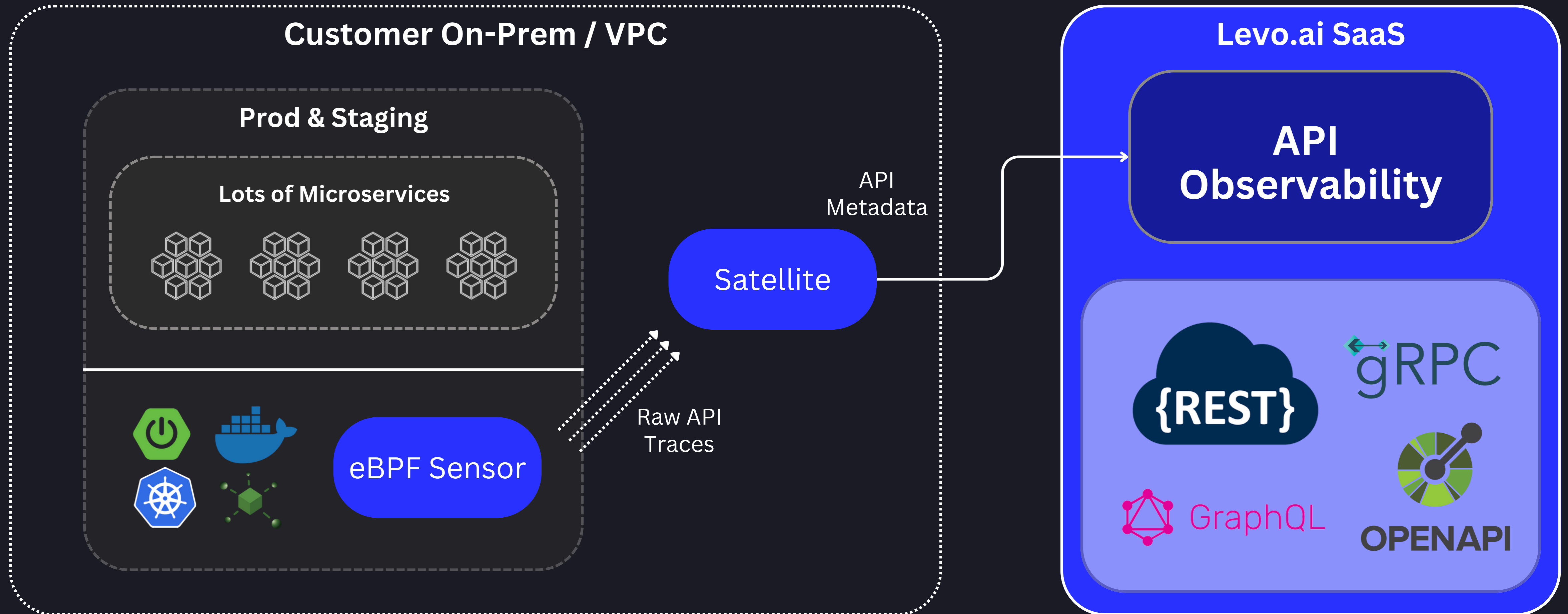


Comprehensive discovery to give 100% visibility



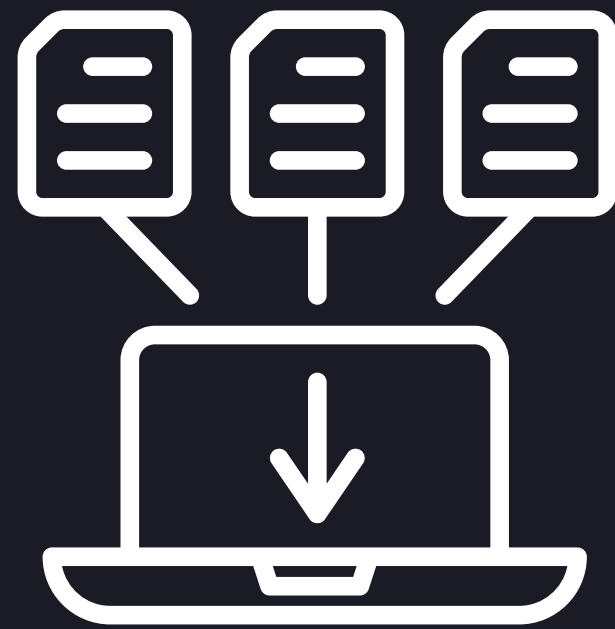
Frictionless API & Data Observability

Levo.ai's Privacy Preserving Architecture



Automate API Discovery and Documentation

What is eBPF capable of doing :



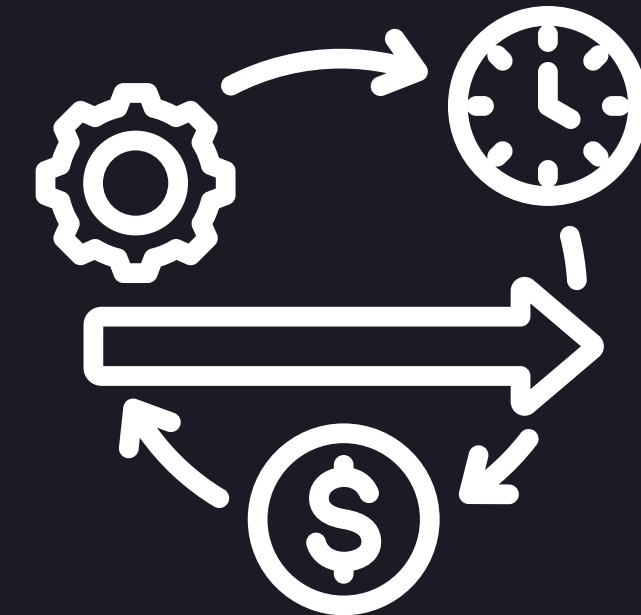
Passive and real-time discovery of all internal, external and thirdparty endpoints at scale without any app changes



Comprehensive discovery regardless of languages, frameworks, SSL protocols and runtimes with rate-limiting and configuration at every stage



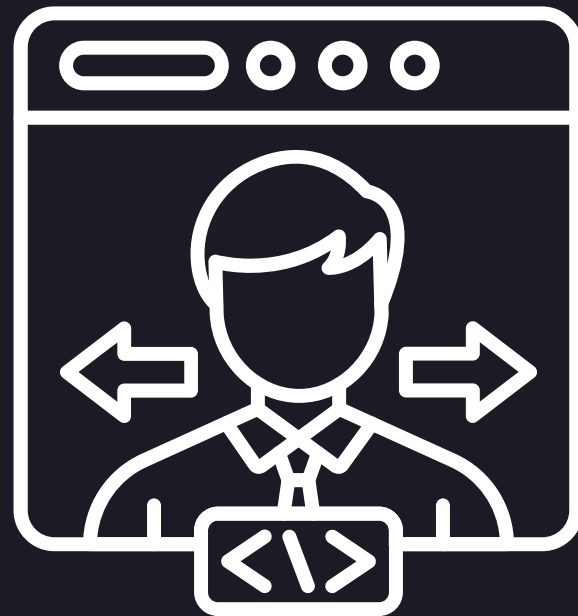
Automatic generation of accurate
OpenApi/Swagger specs



Accelerated secure development cycle through application ownership

Test for API consumption, not outdated assumptions

How we harness end-user context with eBPF:



Accurately simulate
real-world scenarios
through enduser
payload banks



Effective testing to
achieve compliant API
behavior with proper
2xx responses

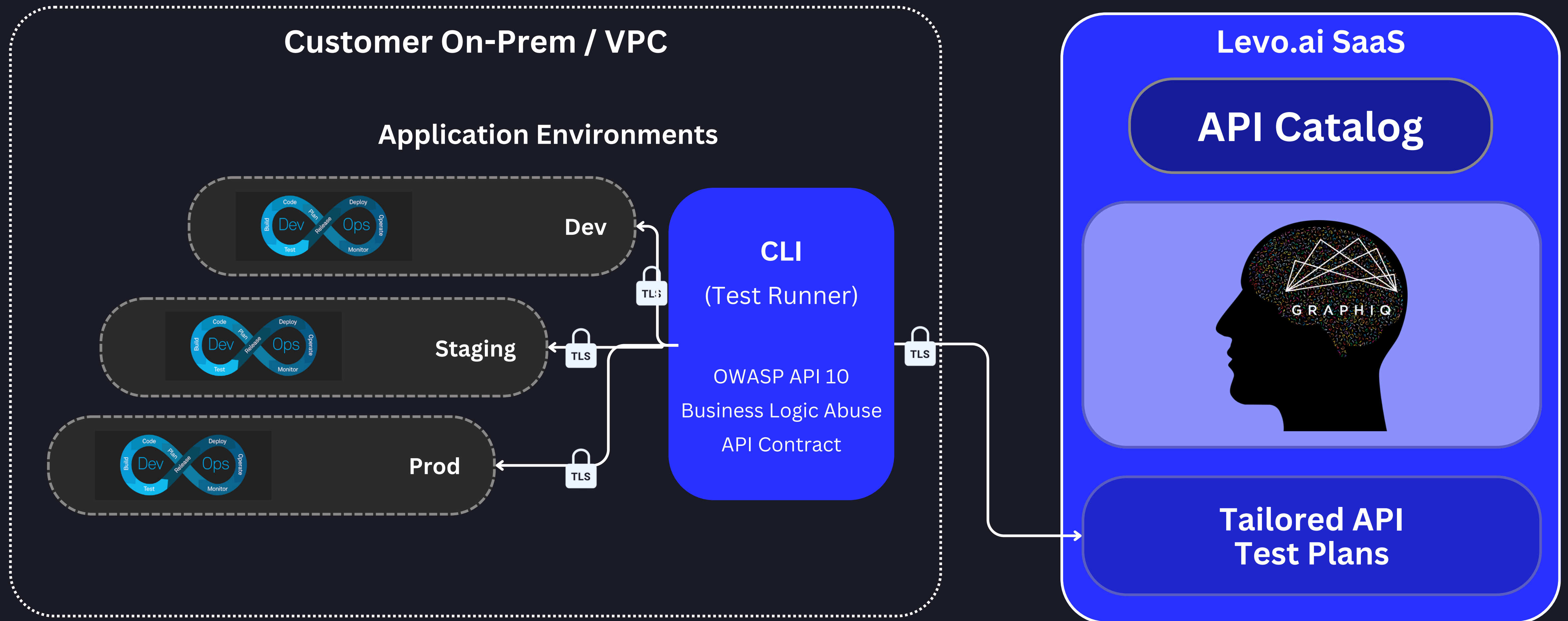


Extrapolate and
increase coverage
by reusing across
endpoints

Thank You

Appendix

Autogenerated Security Tests execute in CI/CD



Automate API Discovery and Documentation

