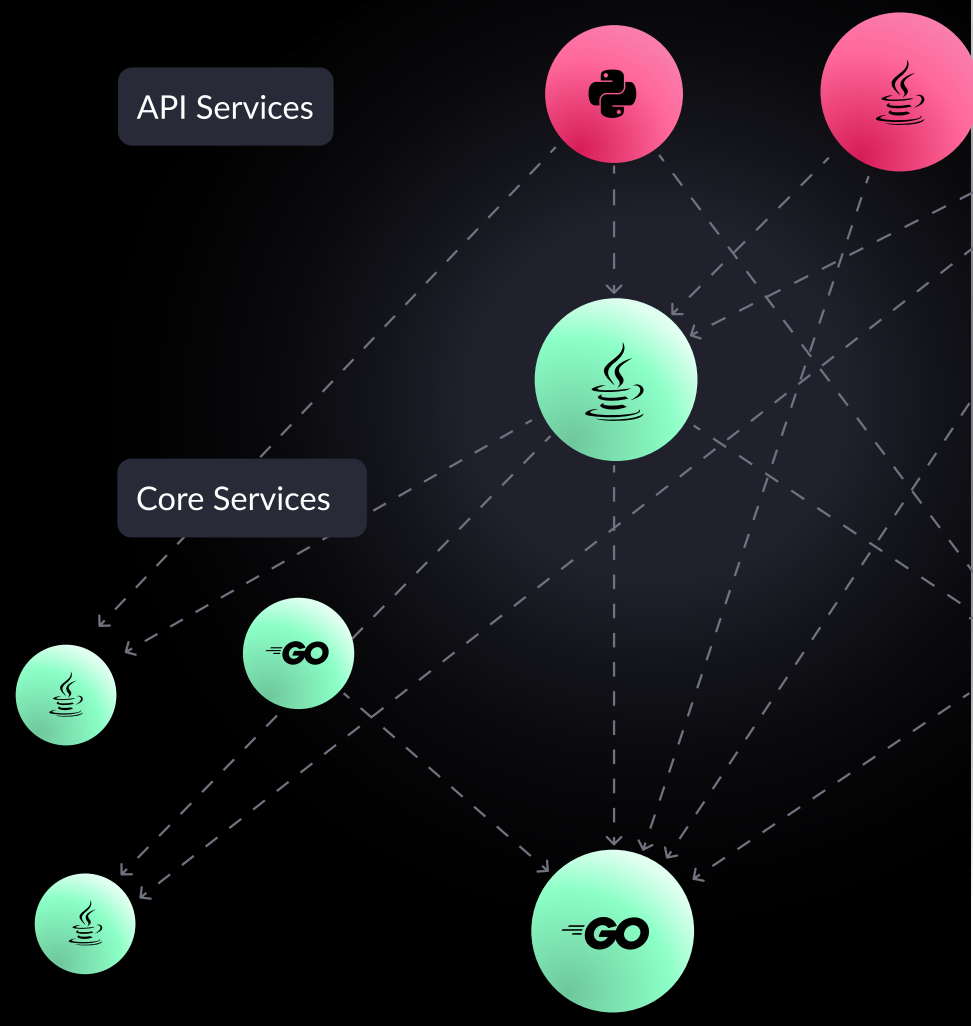
vFunction

vFunction architectural observability platform for microservices

Distributed architectures, be they microservices, macroservices or distributed monoliths, can quickly become overly complex, with limited or no up-to-date documentation. Unclear and unnecessary dependencies and service duplication lead to higher risks of outages, incidents, and a degraded developer experience.

vFunction helps you stay in control. Key capabilities:

- Visualize and document your distributed architecture in real time
- Generate sequence diagrams for every flow in your system, providing a comprehensive view of its operation
- Monitor architectural drift from release to release
- Detect overly complex flows and identify anti-patterns
- Enforce architectural standards and prevent microservices sprawl with an extensive rule engine



Conquer microservices complexity with vFunction

Visualize

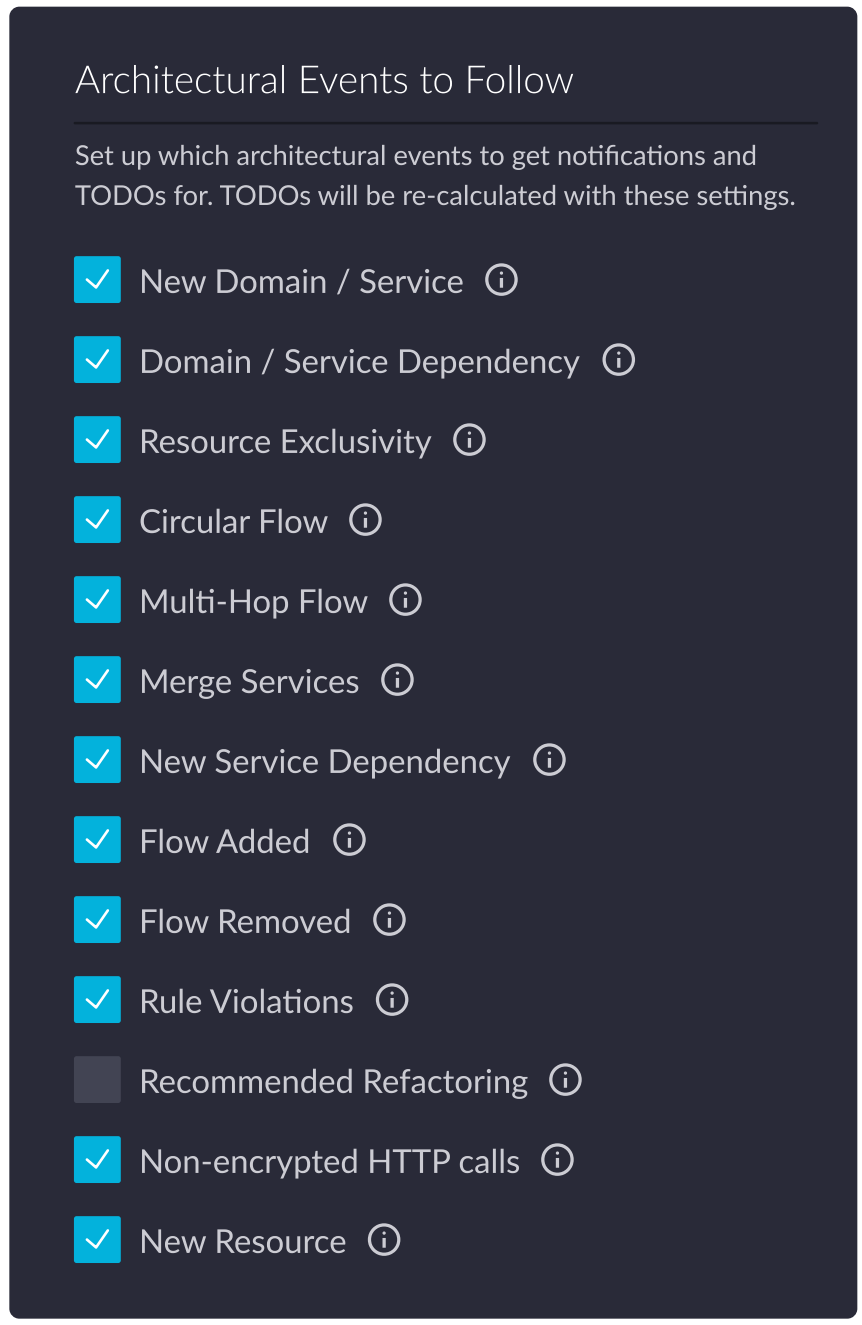
vFunction provides a clear, real-time view of your distributed architecture, automatically generating exportable sequence diagrams for all your system flows. With always up-to-date documentation, you can easily see every service, flow, and dependency in a simple, easy-to-understand format.

Identify

vFunction's architectural observability platform works alongside your APM tools to accelerate issue resolution. While APM tools monitor performance, vFunction zeroes in on catching architectural drift by establishing a baseline and tracking any changes with each release.

Act

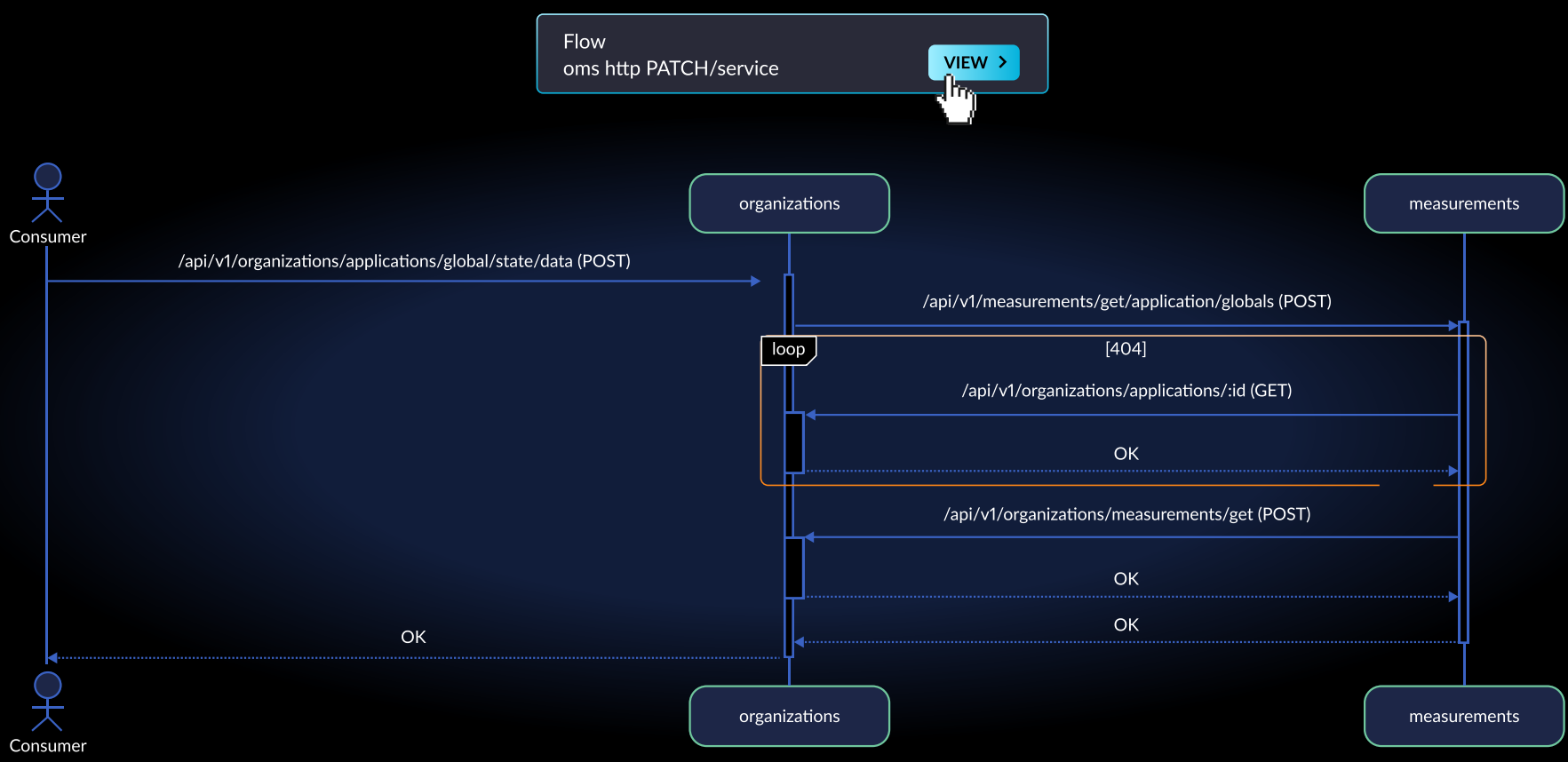
vFunction empowers teams to set clear governance rules for distributed applications and continuously manage and optimize architecture. For example, you can require certain services to not communicate with others and receive real-time alerts when rules are violated. vFunction also helps you quickly resolve complex flows, like circular dependencies or multi-hop flows, that could be the root cause of performance issues flagged by your APM tools. Finally, vFunction leverages AI to identify and suggest duplicate services for merging, simplifying your system and reducing unnecessary complexity.



vFunction tracks and alerts on architectural drift

Automatically document distributed architecture

In fast-paced organizations, traditional architecture diagrams quickly become obsolete. Static analysis tools can't keep up with the actual architecture. vFunction delivers real-time visualizations of your distributed environment by continuously capturing changes, giving you an always up-to-date view of your entire system.



Simple and secure installation with OpenTelemetry

With a secure on-premises server deployment in a virtual machine or containerized environment, vFunction leverages your existing OpenTelemetry tracing data to analyze the architecture of your distributed applications—no additional agents required. By combining vFunction's AI with OpenTelemetry data, teams can quickly visualize, understand, and document their architecture, control drift, identify overly complex flows, and enforce patterns and standards to prevent microservices sprawl.

If you're ready to gain full visibility and control over your microservices, get up and running quickly with our 14-day trial.

Get Started

About vFunction

vFunction, the pioneer of AI-driven architectural observability, delivers a platform that enables you to to understand your application architecture, reduce technical debt and manage complexity. Whether you want to modernize monoliths, or add governance to your microservices architecture, vFunction provides the visibility, analysis, control and automation you need. Global system integrators and top cloud providers partner with vFunction to assist leading companies like Intesa Sanpaolo and Trend Micro in discovering their architecture and transforming applications to innovate faster and change their business trajectory. vFunction is headquartered in Menlo Park, CA, with offices in Israel, London, and Austin, TX.

To learn more, visit www.vfunction.com.