vFunction Architectural Observability Manager
Shift Left for Architects

vFunction Architectural Observability Manager enables architects to assess, monitor, find, and fix application modernization issues before they result in a technical debt disaster - the first "shift-left" product for architects. The first application modernization solution to continuously monitor, baseline, detect and isolate critical application architecture anomalies.

Catch Architectural Drift Anomalies Before Disaster Strikes

Baseline
Application Architecture

Monitor & Detect
Architectural Drift

Pinpoint
Architectural Anomalies

Architectural Observability Prevents Meltdowns

Architectural meltdowns and technical debt disasters have become all too commonplace. Technology leaders must move to a continuous modernization culture where technical debt is managed by setting organizational baselines for technical debt, monitoring for architectural drift, and catching major architectural anomalies before they become business catastrophes.

vFunction Architectural Observability Manager enables software architects, developers, and engineering leaders to both find and fix application or microservice architecture anomalies, determine architectural baselines, set thresholds, and alert when critical modernization anomalies are detected.

Unchecked architectural drift causes:
- Ballooning technical debt
- Architectural erosion
- System failures
- Security breaches
- Sky-high cloud compute costs
- Dead code creep
vFunction Architectural Observability Manager

Find and Fix Architectural Anomalies

Observability-driven architecture consists of a repeatable best practice that manages, observes, and fixes application architecture anomalies on an iterative, continuous basis.

- Baseline, monitor, and alert on architectural drift issues such as the detection of new services, new common classes found, service exclusivity changes, new dead code uncovered, new high debt classes identified and more.

- Get notified of architectural events immediately through various alert systems including Slack, email, and the vFunction Notifications Center.

- Once an architectural events are pinpointed, address them directly with your development team or use vFunction Refactoring Engine to resolve the issues.

Analyze
Analyze the application architecture in production, test, or staging with dynamic and static analysis.

Baseline
Set architectural baselines for technical debt, detected classes, dead code, common code, and high debt classes unique to your application.

Observe
Observe and actively monitor for architectural drift from the established baselines to detect anomalies indicating significant architectural erosion events.

Alert
Detect and pinpoint architectural events and threshold violations - often down to the offending Java class - and receive alerts in Slack, email, or the vFunction Notification Center to determine appropriate remediation.

Fix
Triage architecture anomalies and re-architect or refactor issues identified, including extracting services with vFunction Refactoring Engine.

About vFunction
vFunction is the first and only AI-driven Continuous Modernization Platform for architects that provides Architectural Observability and Automation to manage technical debt and enable iterative application modernization, from basic refactoring to full rewriting and microservices extraction. vFunction is headquartered in Palo Alto, CA, with offices in Israel, Austin, TX, and London, UK. To learn more, visit vFunction.com.