

Applicare Reference Architecture

How synthetic testing, telemetry, and AI combine into a self-healing pipeline.

Overview

Applicare connects four layers into one closed loop: signal collection, unified telemetry, AI correlation, and automated remediation. The result is a system that sees problems before users do and resolves many of them without a human in the path.

Core components

- **Synthetic browser & API tests** — scripted user journeys executed on a schedule.
- **Global probe network** — 100+ locations measuring real regional performance.
- **Telemetry pipeline** — metrics, logs, and traces, OpenTelemetry-native.
- **Arcln AI** — correlation, anomaly detection, and root cause analysis.
- **Remediation engine** — runbook automation with approval guardrails.

Data flow

Users and synthetic tests generate signals → telemetry is ingested and unified → Arcln correlates and pinpoints root cause → the remediation engine executes the appropriate runbook → recovery is validated synthetically and recorded.

Deployment patterns

- **SaaS ingestion** — point OpenTelemetry exporters at Applicare; fastest path.
- **Collector + proxy** — aggregate at the edge for control and resilience.
- **Kubernetes operator** — cluster-wide rollout via Helm.
- **Hybrid / multi-cloud** — probes and collectors per region.

Security & governance

- Least-privilege service accounts for remediation actions.
- Approval gates for sensitive changes (optional ITSM integration).
- Audit trail of every automated action.

Want this tailored to your environment? Book a demo at applicare.arcturustech.com/support.html