APPLICARE · WHITEPAPER

AI Correlation & Self-Healing

How Applicare turns raw telemetry into root cause and automated resolution.

The problem

Modern cloud-native systems emit more telemetry than humans can reason about. The bottleneck is no longer data collection — it is correlation: connecting a symptom to its true cause fast enough to prevent customer impact.

Correlation approach

ArcIn builds a live topology of services and dependencies, then correlates anomalies across metrics, logs, traces, and change events (deploys, config, scaling) on that graph. Instead of N disconnected alerts, operators get one diagnosed incident.

Root cause analysis

- Anomalies are localized to the originating component and span.
- Change events are overlaid to catch deploy- and config-induced regressions.
- Blast radius is computed from the dependency graph.

Self-healing

When a diagnosed incident matches a known, safe failure mode, Applicare executes the corresponding runbook — restart, rollback, or scale — validates recovery synthetically, and records the action. Risky changes can pause for ITSM approval, combining automation with governance.

Results

In production environments, this approach reduces MTTR from hours to seconds for common failure modes, cuts alert noise dramatically, and prevents a large share of customer-facing incidents outright.

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