PRESIDIO®

SOLUTION BRIEF

Digital

AWS AIDLC and Presidio's Self-Evolving Application Framework



A connected path from AI-assisted development to production operations.

THE CHALLENGE

Agentic development and agentic operations are different disciplines, and winning with AI-native software means winning at both. AWS AIDLC gives teams a standards-based platform to build applications faster, from ideation to code, without leaving their development environment. But building fast and running well need different expertise, tooling, and operating posture. That Day 2 gap shows up in three ways:

- **Faster release and enhancement cadences have outpaced operations, which still run on a manual, reactive model after deployment. That's where the real cost and risk live.**
- **Bolting AI SRE and coding tools onto existing operations platforms widens the gap between build and run and ignores the context already built around the application.**
- **Rapid AI adoption without controls grounded in enterprise knowledge and policy erodes production stability, increases technical debt, and reduces throughput.**

The emerging success pattern is to connect the two, not replace either. That is where the value is.

AT-A-GLANCE

Together, AWS and Presidio cover the end-to-end application lifecycle. Presidio's Digital Services Team extends AWS AIDLC past Construction by extending and augmenting the existing operations model with our Self-evolving Application Framework that maintains AIDLC-built applications using an autonomous and automated operational approach. The two frameworks cleanly separate duties by design: AWS AIDLC runs locally, in the developer's own IDE, handling Inception and Construction.

Our self-evolving framework runs in production, leverages existing application management operating models, and is deployed alongside the live application in AWS, or wherever it's hosted, taking over from the moment the app deploys. The Self-evolving Application Framework acts as a digital twin for the engineer who'd otherwise be paged at 3am.

The two connect through the one thing they share, namely the repository. AIDLC commits its specs, skills, agent definitions, and steering rules into the repo alongside the application code; when the self-evolving framework opens that same repo, it reads that same context directly and layers its own production skills and agents on top. No separate context migration. No re-onboarding steps. No duplicated setup.

OUR APPROACH

1. **Build - Built Locally with AIDLC**
   Inception and Construction run entirely in the IDE the developer already uses. Requirements, plans, and stage records land in the repo alongside AIDLC's skills, agents, and steering rules, committed together with the application code. Governance at this stage comes from AIDLC's own tools and controls.
2. **Hand Off - The Repo Carries the Context**
   Presidio's framework reads the same specs, skills, and rules AIDLC left behind the moment it opens the repo, and brings its own production skills on top. The repository is the handoff artifact — no additional onboarding steps are required. Decisions made at build time inform the changes the self-evolving app framework proposes later, keeping production remediation consistent with how the application was designed.
3. **Operate - Presidio's Self-Evolving App Framework Maintains the Application**
   Once deployed, our framework connects to the existing Operations platform/tooling of choice and runs in production for as long as the application lives. When an alert fires, the framework triages the issues, analyzes the root cause, and applies and tests a remediation using the full application context.

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A pull request is raised and a developer reviews it, merging and deploying the change. Nothing ships without human review.

Safe Autonomy Governs and Operates Day 2: Build-stage governance comes from AIDLC's own tools and controls. From the moment Presidio's framework reads the repo, our Safe Autonomy model takes over, providing Action Safelists, Cost Governance, HITL Escalations, Full Auditability, Minimal Authority, Validated Execution, and Grounded Reasoning. This provides the governance layers an application needs for the years it runs, rather than just the days it took to build.

KEY BENEFITS

- **Build-to-Run Continuity**
  Self-evolving Application Framework picks up the moment AIDLC deploys, closing the gap between building fast and running well.
- **Lighter Onboarding**
  Presidio's framework reads the specs, skills, and steering rules AIDLC already commits to the repo, so there is no context migration or duplicate setup.
- **Faster, More Consistent Remediation**
  When an alert fires, the framework triages, builds, and tests a fix with full application context, keeping changes true to how the app was designed.
- **Human Control by Design**
  Safe Autonomy applies action safelists, HITL escalations, and full auditability, and nothing ships without developer review.
- **Fits Your Operating Model**
  Self-evolving Application Framework plugs into the operations platform and tooling already in place and runs wherever the application is hosted.

THE PRESIDIO AND AWS ADVANTAGE

- Leading SI positioned to connect AWS's build-time methodology (AIDLC) to production operations without requiring either side to be re-architected.
- Our lightweight onboarding framework uses the repository AIDLC already produces, without requiring a separate context migration or parallel setup process.
- Presidio's Safe Autonomy governance model spans hand-off and operations, so clients get one consistent accountability standard once the app is live.
- Built for AWS-committed clients running AIDLC today, while preserving Presidio's vendor-neutral architecture that supports your existing operational tooling.

WHY PRESIDIO

Presidio is here to guide your business transformation journey by helping you carefully navigate the fast-changing tech landscape. As the bridge between where you've been with foundational IT, and where you're going with modern AI and cloud services, we measure success with you on the terms you define. We strive to build lifetime relationships with each of our customers, and we do so by being fearless, fast, flexible, and compassionate. It's our mission to earn your trust and deliver innovative, high-quality outcomes at speeds once thought not possible, so you can achieve your business goals faster.

Carry AWS AIDLC's repository context into production operations.
Explore how Presidio's Self-Evolving Application Framework supports AWS AIDLC-built applications after deployment. Read our blog on Self-Evolving Apps or connect with a Presidio AI specialist to discuss your operating model.

Contact Presidio today:
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