

APPLICATION MODERNIZATION

Avalon takes the aging system your agency depends on and rebuilds it on a modern, supportable foundation in controlled increments — so the mission never bets everything on one risky cutover.

THE PROBLEM WE ADDRESS

The system can't absorb a new mission requirement or policy change — updates take months, and outages threaten the operations that depend on it.

Unsupported operating systems, languages, and components can't satisfy NIST SP 800-53 SA-22, generate repeat audit findings, and put the system's ATO at risk at reauthorization.

WHAT WE DO

- Application and portfolio assessment
- Codebase, dependency, and interface analysis
- Evidence-scored disposition per application (retain, rehost, replatform, refactor, rebuild, replace)
- Security posture review against the current SSP and POA&M
- Target-state architecture and sequenced roadmap
- Data migration strategy with rehearsal and reconciliation
- Strangler-fig incremental modernization execution
- Controlled cutover with rollback criteria and legacy decommission

HOW WE DO IT

1 KICKOFF & DISCOVERY

Access provisioned; inventory, static analysis, and dependency mapping build the run-cost baseline.

DELIVERABLE

Assessment baseline

2 DISPOSITION & ROADMAP

Disposition decisions, target-state design, and a sequenced roadmap with reauthorization checkpoints.

DELIVERABLE

Sequenced roadmap

3 INCREMENTAL MODERNIZATION

Strangler-fig decomposition, refactor/rebuild sprints, and incremental production releases.

DELIVERABLE

Modernized services, released incrementally

4 CUTOVER & TRANSITION

Final data migration, controlled cutover with rollback criteria, legacy decommission, and knowledge transfer.

HANDOVER

Decommissioned legacy + trained staff

VALUE DELIVERED

- › **The mission never stops running.** Strangler-fig migration moves traffic slice by slice — no single risky cutover.
- › **Reauthorization planned, not discovered.** Checkpoints are built into the roadmap from day one, not found at cutover.
- › **A business case, not an assumption.** Every application gets an evidence-scored disposition against criticality, cost, and compliance exposure.
- › **No single point of failure.** Documentation, runbooks, and incremental delivery mean no departure or cutover can take the mission down.

THE ONE THING TO REMEMBER

Security-integrated modernization, designed by the people who deliver it.

COMMONLY PROCURED AS

Legacy application modernization services

AT A GLANCE

Model	Fixed-price or T&M, scoped per engagement
Typical	6–12 months for a single mid-size application
NAICS	541512, 541511, 541519, 541611, 541690
UEI	Y9MXMMHY3HA1
CAGE	242T0
Standards	NIST SP 800-53, NIST SP 800-37 (RMF), FedRAMP, CISA Zero Trust Maturity Model

WHO WE WORK WITH

- › CIO / IT modernization lead facing an unsupported legacy system
- › ISSO managing SA-22 findings tied to unsupported components
- › Program manager needing a requirement the current system can't absorb

COMMITMENT TO QUALITY

Avalon is led directly by a PMP-certified founder with a decade of enterprise engineering experience where every engagement gets senior-level attention, never a subcontracted bench. Delivery follows NIST SP 800-53, RMF, and FISMA, evidence-backed and control-mapped by design. ISO 9001/27001 is on the roadmap as the pipeline scales.

Status: Small business federal contractor based in Los Angeles, CA

NIST SP 800-53

NIST SP 800-37 (RMF)

FEDRAMP

CISA ZERO TRUST MATURITY MODEL