

Architecting Regulated Cloud Transformations in Financial Services

SOUTHSTATE BANK
PULTE MORTGAGE

Industry: Financial Services & Mortgage

Platform: Microsoft Azure

Scope: Cloud Architecture & Migration

Role: Lead Solution Architect

THE CHALLENGE

Two financial services organizations — a mid-size regional bank and a national mortgage lender — each needed to modernize legacy infrastructure to Azure while maintaining strict regulatory compliance. Both operated in heavily regulated environments (FFIEC, SOC 2, GLBA, CFPB) where security, data residency, and audit readiness are non-negotiable. They required enterprise-grade landing zones, compliant architectures, and phased migration strategies that would not disrupt critical business operations.



SouthState Bank
REGIONAL BANKING · FINANCIAL SERVICES

- ✓ Led the full Azure Design Phase defining target-state architecture for core banking workloads
- ✓ Designed enterprise Landing Zone aligned to Azure Cloud Adoption Framework (CAF)
- ✓ Architected API Management layer for secure service integration across banking systems
- ✓ Mapped compliance controls to FFIEC, SOC 2, and GLBA regulatory frameworks
- ✓ Defined defense-in-depth security model: perimeter, network, compute, application, and data layers



Pulte Mortgage
NATIONAL MORTGAGE LENDER · REAL ESTATE

- ✓ Developed enterprise Azure modernization strategy covering application portfolio and infrastructure
- ✓ Designed scalable Landing Zone topology with workload-specific subscription model
- ✓ Created phased migration sequencing prioritized by business criticality and dependency mapping
- ✓ Built cloud roadmap with wave-based migration plan minimizing operational disruption
- ✓ Defined governance guardrails for cost management, tagging, and resource lifecycle policies

ARCHITECTURAL APPROACH

Assess & Discover

Comprehensive workload inventory, dependency mapping, and compliance gap analysis against regulatory baselines

Design & Blueprint

Target-state architecture, Landing Zone topology, network segmentation, identity model, and security controls

Plan & Sequence

Wave-based migration roadmap, risk-prioritized workload grouping, rollback procedures, and validation gates

Govern & Operate

Policy-as-code enforcement, cost guardrails, monitoring baselines, and ongoing compliance automation gates

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REGULATED ENTERPRISES

5

SECURITY LAYERS

4

COMPLIANCE FRAMEWORKS

100%

AUDIT-READY ARCHITECTURE



FFIEC
Federal Financial Institutions



SOC 2
Type II Controls



GLBA
Gramm-Leach-Bliley Act



CFPB
Consumer Financial Protection

Compliant by Design

Every architecture decision mapped to regulatory controls — eliminating post-deployment compliance scrambles and reducing audit preparation from weeks to days.

Zero-Disruption Migration

Phased sequencing ensured critical banking and mortgage processing systems maintained full availability through every migration wave.

Repeatable Framework

Landing Zone designs and governance patterns created reusable blueprints applicable across future financial services engagements.

"These engagements proved that regulatory complexity and cloud agility aren't mutually exclusive — with the right architecture, financial institutions can modernize without compromising compliance."