



EDUCATIONAL SESSION III

BEST PRACTICES IN OPERATIONAL RESILIENCY

MULTI-REGION, REDUNDANT CLOUD NETWORK ARCHITECTURE
ENGINEERED FOR UNINTERRUPTED OPERATION



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Built for Zero Disruption

Protecting Business Value

- Protecting Business Value:
Multi-region architecture built
to eliminate outage risks

Zero Client Overhead

- Zero Client Overhead:
Fully automated failover
with no manual
intervention required.



Dual-Region Cloud Footprint

Primary Hub (US-East-1 Virginia)

- Active production workloads with multi-AZ fault isolation

Secondary Hub (US-East-2 Ohio)

- Synchronized hot-standby ready for instant automated takeover.

Geographic Diversity

- 400+ miles of physical separation guarding against power, carrier, or weather disruptions.



Intelligent Auto-Failover

01

Real-Time Health Telemetry

- Continuous BGP telemetry monitors packet loss and latency, detecting issues in milliseconds.

02

Intra-Region Rerouting

- Localized anomalies trigger sub-second traffic diversion across alternate AZs.

03

Cross-Region Takeover

- Major regional outages trigger seamless automated failover from Virginia to Ohio.



Dual Redundant Network Paths



Monitored Standby Connectivity

- Secondary paths are continuously monitored to enable rapid automated rerouting upon connection degradation.

Multi-Carrier ISP & BGP Failover

- Dynamic BGP routes across multiple independent carriers, eliminating single points of failure.



Target SLAs & Risk Metrics



99.99%

**Target Network
Uptime**

5-Second Failover Execution

- Automated network convergence reroutes live traffic rapidly to prevent dropouts

Zero Manual Intervention

- Automated monitoring eliminates human delays and configuration errors

Network Session Resilience

- Multi-provider redundancy maintains active session stability during carrier disruptions



Intelligent Auto-Failover

Phase

01

Core Infrastructure & Onboarding

- Multi-region network validated; Phase 1 clients migrated and all new clients onboarding directly.

Phase

02

Coordinated Network Cutover

- Executing scheduled, tested transitions for remaining clients with zero operational downtime (Target: Q1 2027).

Parallel Ongoing Project – SFTP Migration

- Independent initiative progressing concurrently, with several client migrations already complete.



Security & Governance

01

End-to-End Data Protection

- Bank-grade encryption safeguards client data in transit across network paths and at rest in cloud databases.

02

SOC 2 & SWIFT CSP Compliance

- Fully aligned with enterprise regulatory standards through continuous third-party audits and vulnerability scanning.

03

Proactive Incident Communication

- Operational health dashboards deliver automated alerts and timely status updates directly to your IT leadership.



Q&A