viadex
Global IT Service Partner

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Case Study:
Delphi World

Viadex establishes a secure AWS Landing Zone and migrates business-critical employee benefits platform

About Delphi World

Delphi World provides technology-enabled employee benefits, corporate rewards, incentive and disbursement solutions. Its platform supports enterprise customers that need controlled, secure and reliable delivery of employee-related services and corporate benefits.

The initial AWS migration covered eight virtual machines supporting the employee benefits and corporate disbursement platform. The engagement also created a governed cloud foundation for future applications and business services.

Industry: Employee Benefits, Corporate Rewards and Incentives
Market segment: Mid-Market / Enterprise

The Challenge

Delphi World needed to migrate the first business-critical workload to AWS without creating an unmanaged cloud environment. No formal Landing Zone, multi-account model or standardised cloud operating framework existed at the start of the engagement.

Without centralized identity, logging, monitoring, security guardrails and cost controls, wider AWS adoption could have resulted in fragmented accounts, inconsistent controls, slow onboarding and expensive future remediation.

The application also required high availability and automatic scaling so the platform could maintain service continuity and adapt to changing demand without manual infrastructure intervention.

The Solution

Viadex designed a phased migration programme combining a secure AWS Landing Zone, multi-account governance and a highly available application architecture. The approach balanced low migration risk with long-term governance, scale and operational efficiency.

Key capabilities included:

- AWS Organizations and a structured multi-account model for centralized governance and future workload separation.
- AWS IAM Identity Center and role-based access for federated authentication and least-privilege administration.
- AWS WAF and a Multi-AZ Application Load Balancer for protected highly available customer access.
- Amazon EC2 Auto Scaling Groups across Availability Zones and Amazon RDS Multi-AZ for resilient application and database services.
- AWS Backup, Amazon S3, AWS KMS, CloudTrail and CloudWatch for recovery, encryption, audit and operational visibility.
- Terraform, AWS CLI, controlled deployment pipelines and Viadex360 for repeatable delivery and financial governance.

Migration Strategy

- Rehost compatible workloads to Amazon EC2 using a controlled migration approach.
- Replatform the database, backup and operational functions onto managed AWS services.
- Deploy the application tier across multiple Availability Zones with load balancing and Auto Scaling.
- Validate infrastructure, security controls, monitoring, backup and rollback before production cutover.

Implementation Strategy

The technical rollout was structured into controlled phases:

1. Discovery and dependency mapping

- Validated the eight-VM scope, workload dependencies, business criticality and operating requirements.

Implementation Strategy *cont.*

2. Landing zone and security foundation

- Established the multi-account, identity, logging, encryption, network and security baseline.

3. Migration and modernisation

- Migrated compatible workloads with automated deployment, rollback and readiness controls.

4. Operational readiness

- Implemented CloudWatch dashboards, workload-health alarms, centralized logs and backup reporting.

5. Cost and governance

- Integrated Viadex360 for budgeting, forecasting, allocation and ongoing optimization.

Target State Structure

The target design uses a governed Landing Zone and a Multi-AZ production VPC. Public ingress is protected by AWS WAF and an Application Load Balancer; private EC2 Auto Scaling groups serve the application; Amazon RDS Multi-AZ provides managed database resilience; and centralized logging, backup, encryption and cost governance support operations.

Cloud Infrastructure Services
Corporate Identity Provider + On-Premises 8-VM Estate
AWS Organizations + Multi-Account Landing Zone
AWS WAF + Multi-AZ Application Load Balancer
Private EC2 Auto Scaling Groups - AZ A and AZ B
Amazon RDS Multi-AZ - Primary and Standby
CloudWatch | CloudTrail | S3 Log Archive | AWS Backup | KMS
Viadex360 - Budgets, Forecasting and Optimization

AWS Services and Tools

Migration and automation: AWS Application Migration Service, Terraform, AWS CLI and controlled deployment pipelines.

Platform: AWS Organizations, Amazon VPC, Application Load Balancer, Amazon EC2 Auto Scaling, Amazon RDS Multi-AZ and Amazon S3.

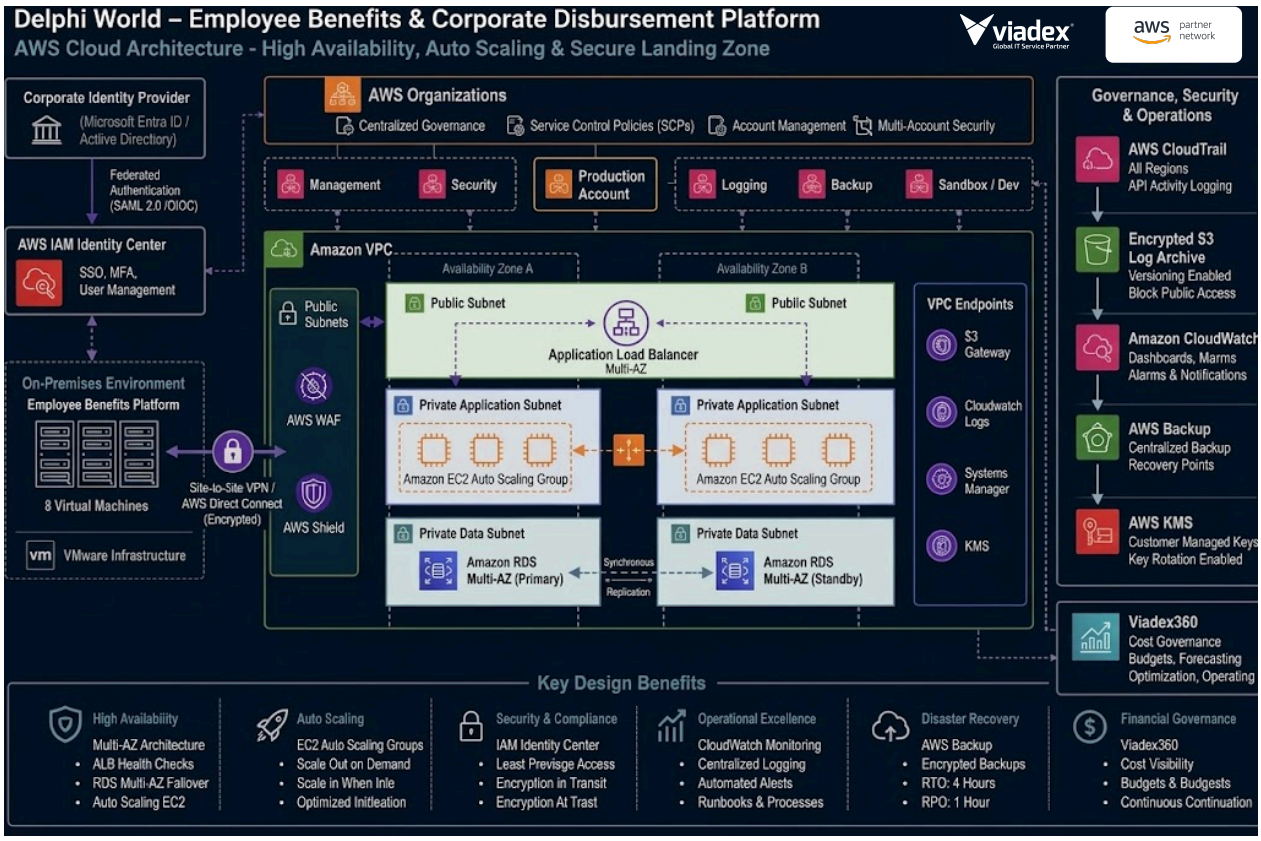
Security: AWS IAM Identity Center, IAM roles, AWS WAF, Security Groups, AWS KMS and encrypted TLS endpoints.

Operations: Amazon CloudWatch, AWS CloudTrail, AWS Backup and AWS Systems Manager.

Governance: Service Control Policies, centralized logging, budgets, cost allocation and Viadex360.

Resilience and Scale

- Multi-AZ load balancing, application capacity and Amazon RDS Multi-AZ reduce single points of failure.
- EC2 Auto Scaling adjusts application capacity and replaces unhealthy instances automatically.



Outcomes

The engagement delivered measurable improvements in governance, provisioning speed, resilience and operational control while keeping commercially sensitive customer information private.

Metric	Value
Migration scope	8 virtual machines migrated into a governed AWS Landing Zone
Provisioning speed	Compliant environment provisioning reduced from 3–5 business days to under 2 hours
Governance coverage	100% of migrated workloads covered by identity, logging, monitoring, encryption and backup controls
Scalability	Application capacity scales automatically using EC2 Auto Scaling and load balancing
Resilience	Multi-AZ application and database design; recommended RTO 4 hours and RPO 1 hour

Lessons Learned

Early governance alignment was essential. The engagement showed that account ownership, security responsibilities, identity roles and future workload boundaries must be agreed before Landing Zone deployment begins.

The project reinforced the value of separating migration from extensive application transformation. Rehosting compatible workloads reduced delivery risk while managed database, backup and governance services provided immediate operational value.

The implementation also highlighted the need to define work health thresholds, recovery objectives and scaling policies before cutover. These lessons have been added to Viadex governance, identity, operational-readiness and recovery workshops.

Why Viadex

Viadex combined Landing Zone delivery, migration engineering, high-availability design, security governance and FinOps capability in one engagement. This enabled Delphi World to migrate the first workload while establishing a scalable operating model for future AWS adoption.