

# MLCHC (Mass League) AWS Modernization Case Study

MY MA REPAY

## Client Overview

The Massachusetts League of Community Health Centers (MLCHC) is a nonprofit corporation serving as the Primary Care Association for all Massachusetts community health centers. Among its initiatives, the MA Repay Program, in partnership with the Executive Office of Health and Human Services (EOHHS), offers student loan repayment to direct care providers from diverse backgrounds. This program aims to reduce student loan debt while ensuring continued service in eligible work settings, thus contributing to employee retention and supporting underserved communities.



## Modernization Overview

- » **Engagement Type:** Private, Contract-Governed
- » **Modernization Nature:** Brownfield
- » **Approach:** Refactor and Replatform
- » **Strategy:** Incremental, Phased Modernization
- » **Scope:** Application, Infrastructure, Security, DevOps

## Technology Stack



ALB



NLB



API



Lambda



VPC



EKS



S3



SNS



SES



RDS



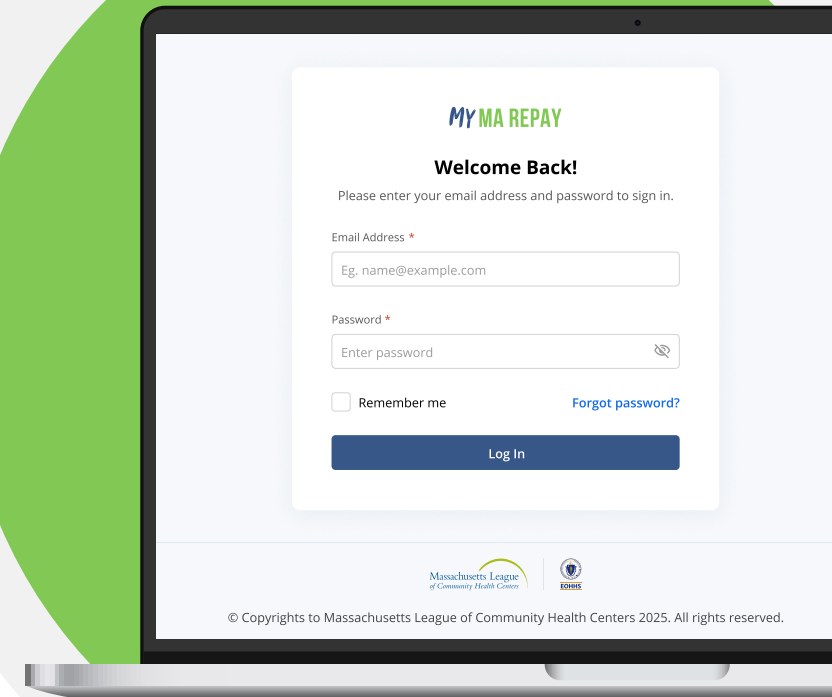
KMS



ECR



AWS Inspector

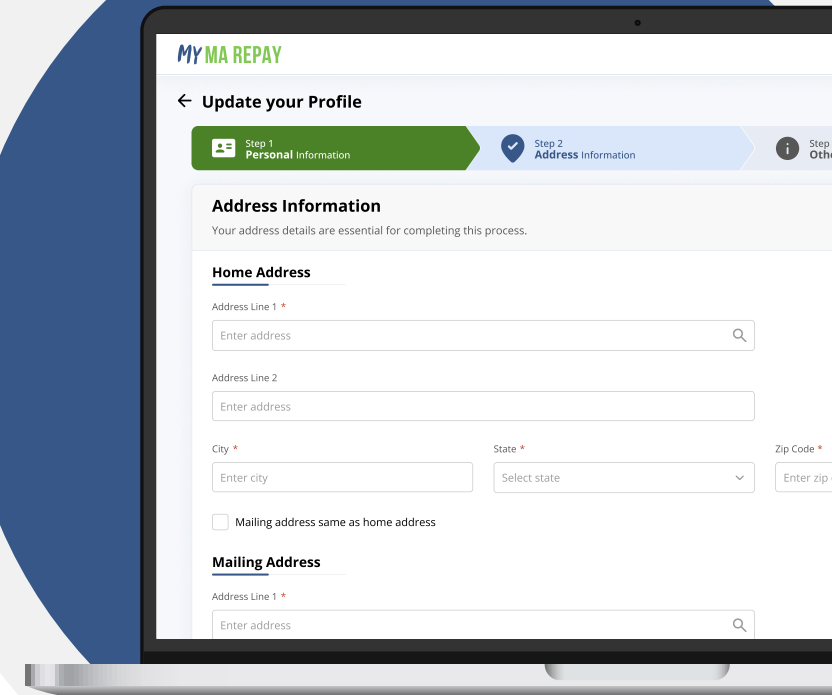


## Business Challenges

- » **Need for elastic scalability** to support variable workloads
- » **Increasing API and integration** complexity
- » **Requirement for stronger** authentication and data protection
- » **Operational overhead** from legacy deployment processes
- » **Need for governance**, auditability, and controlled change

## Engagement Objectives

- » **Design and implement** a modern AWS-based platform
- » **Enable scalability**, resilience, and fault tolerance
- » **Strengthen security** and compliance posture
- » **Accelerate delivery** using CI/CD and GitOps
- » **Modernize incrementally** with minimal business disruption

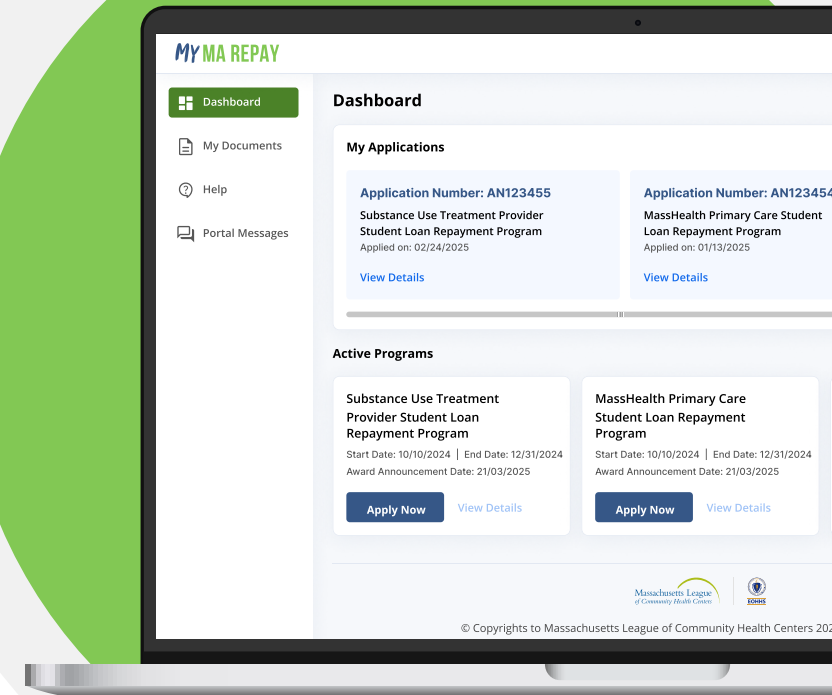


## Proposed AWS Solution

- » **Amazon EKS** – Containerized microservices with auto-scaling and high availability
- » **ALB & API Gateway** – Secure ingress, routing, and API management
- » **IAM & Lambda Authorizer** – Least-privilege access with JWT/OAuth authentication
- » **Amazon VPC** – Private subnets, Security Groups, NAT for network isolation
- » **RDS, S3, KMS, ECR, CloudWatch** – Managed data, encryption, CI/CD support, monitoring

## Migration & Modernization Outcomes

- » **Elastic scaling** across application and API layers
- » **Improved platform resilience** and fault tolerance
- » **Reduced deployment risk** through automation
- » **Enhanced security** and compliance readiness
- » **Improved operational visibility**



## Benefits for Customer

- **Elastic Scalability**  
Auto-scales application and API workloads to meet demand.
- **High Availability & Resilience**  
Multi-AZ, self-healing architecture targeting 99.9%+ uptime.
- **Stronger Security & Compliance**  
Least-privilege IAM, encryption with AWS KMS, private network isolation.
- **Faster Time-to-Market**  
CI/CD and GitOps enable quicker, safer releases.
- **Operational Efficiency**  
Reduced infrastructure overhead using managed AWS services.
- **Future-Ready Platform**  
Cloud-native foundation supporting long-term growth and innovation.

My MA REPAY

← Program

Personal Information

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