KNAC>FORGE

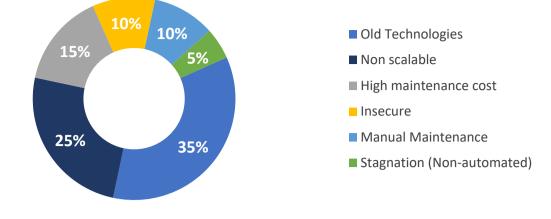
Our leading Marketing client witnessed 30% cost savings with Legacy Application

Modernization and Migration

SUCCESS STORY

Legacy applications were a burden and expensive for our client, who was undergoing a digital transformation. Applications built on out-of-date platforms, using old programming languages and tools, hid unmitigated risk. These aging application systems had to be modernized to stay in line with business strategy. US-based leading Auto Repair Marketing client approached KnackForge to modernize its existing application to support newer integrations and flexibility.

CUSTOMER'S PAIN POINTS Legacy application/infrastructure had below drawbacks such as



Our client is a leading marketing & loyalty solutions provider for the automobile industry. They offer the

MEET THE BRAND

independent auto repair shops with the industry's leading Rewards Program. They also provide SMS Text Marketing, Email Marketing, premium Gift Card Mailers, and Predictive Reminder Mailers.

GOAL

control, security, advanced storage, easy monitoring, and reduced cost.

To build a scalable application and to leverage Legacy Application Modernization, thus providing enhanced

KnackForge AWS professionals conducted extensive discovery to articulate a clear assessment of the

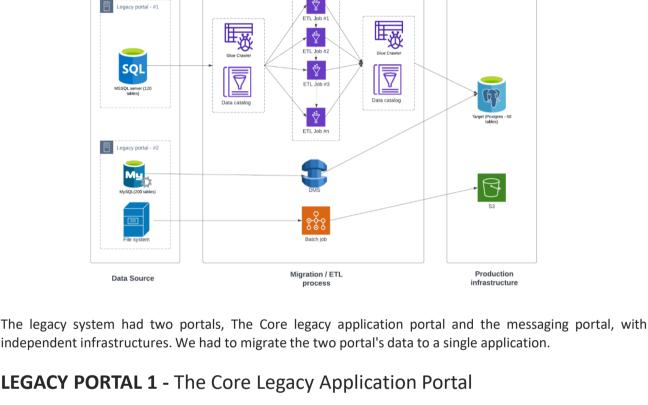
CHALLENGES

STRATEGY

challenge. After comprehensive planning with the client, we modernized their existing application that didn't support newer integrations and flexibility. Provide the necessary support and maintenance as KnackForge modernized its existing, large and complex application.

SOLUTIONS

CHALLINGLS	SOLOTIONS
To build a scalable application	We used AWS autoscaling and serverless method
Modernized application	We followed serverless, AWS QuickSight reporting, code pipeline, SQS
Cost optimization	Adopted pay as per usage model, effective usage of resources
Maintenance free	Automated backups, S3 lifecycle
Easy monitoring	We used CloudWatch dashboards
Secure	Chose the best practices of AWS VPC, graduality access using IAM
Advance storage	We implemented AWS transfer family integration with Amazon S3 for storing file data
PROCESS	



Glue Workflow

for the conversion. We had to perform many transformations, joints, filtering, and deduplication to achieve the output.

Using AWS Glue, we converted 120 MSSQL tables of data into 40 Postgres tables. We required 40 ETL scripts

Using DMS (Database migration service), we migrated MySQL tables from the source to target temp tables. Then we used the AWS Batch Jobs to transform the data within the target.

LEGACY PORTAL 2 – The Messaging Portal

Using Batch Jobs, we transferred the files from the source (legacy file system) to the target (S3)

We have continuous 24/7/365 monitoring of solutions and data with the help of our Network Operation

Web application performance, Database load, CPU Utilization - all these are closely monitored in CloudWatch and the alarms help NOC to take immediate action

50%

Period

DATA MONITORING

Center (NOC) team

Improvement

PERFORMANCE: POST LAUNCH: All In One Application – Legacy And Messaging Portal

30% In-house AWS cost optimization tool was used in deriving the cost reduction Period (\$) Dashboard

\$ 52,661

(P) 6

0.99999%

Period

\$ 47,968

Savings Requests are handled by OnDemand jobs (Serverless) Reserved resources for the long run

Cost

Moved to Serverless technology Separate reader for analytics

0

Performance

Effective usage of resources using Auto Scaling

\$8,710

Data Loss From 15% to 0.99999%

Functionalities automated and backups are enabled

Automated scheduled jobs Modernized error handling (Using CloudWatch)

Reduced 3rd party dependencies

to prevent data loss

RESULT

- KnackForge's experience delivered immediate efficiencies and cost reductions: 30% cost savings were achieved.
- using the Serverless method, AWS Quicksight reporting, Code pipeline, and SQS. KnackForge went the extra mile by prioritizing its mitigation. We not only improved our client's security

Our developers modernized the legacy architecture and automated the application's monitoring system