

# .RIA

## Digital Infrastructure Modernization to a Private Cloud Set-up using Microservices for a North American Transportation Leader.

Freight leader in North America and global transportation company, with nearly 20,000 employees and 85+ years of experience in the transportation, trucking and railroad industry.

CASE STUDY

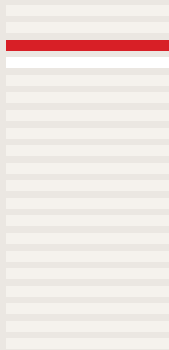
PROUDLY PRESENTED BY RIA TEAM



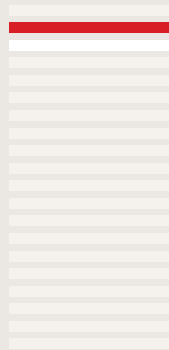
## Client Profile & Business Context. Less-Than-Truckload (LTL) freight leader in North America and global transportation company, with nearly 20,000 employees and 85+ years of experience in the transportation industry.

With a history of being an industry-leading domestic and global shipper, our customer is offering ground and air expedited transportation and a range of value-added services including container drayage, truckload brokerage, supply chain consulting and warehousing.

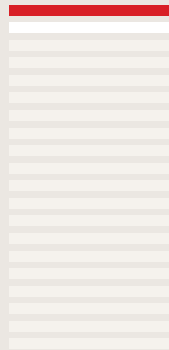
**85+**  
years of  
experience



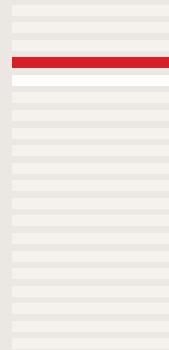
**LTL**  
services



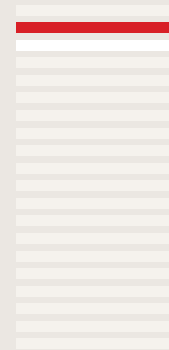
**Global**  
presence



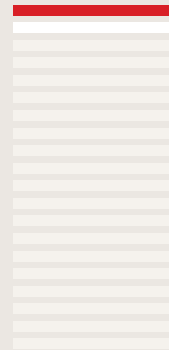
**41,000**  
assets



**20,000+**  
employees



**238,000**  
service  
centers (US)



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RIA Solutions Group played a key part in solidifying a multimillion-dollar deal for the client in a short period of time. They have good communication skills and are in touch frequently. Quick to address any issues, they're always eager to make things right and work with the client.

— DIRECTOR OF APPLICATION DELIVERY

**Clutch**

This review it's available online on RIA Solutions Group profile page on [clutch.com](#). Please [click here](#) to visit the page.

# Challenges. As a digital transformation partner, we have provided our consulting & implementation services in helping our customer reach their business goals.

Within the engagement with our client, we were keen on solving the following challenges:

## CHALLENGE

### Aging infrastructure and technology

stack which generated high latency in internal & external facing applications and a high lead time in delivery of new features.

EMBRACED BY ● TEAM

## CHALLENGE

### High complexity of the existing IT infrastructure

which required to design a microservices approach and a private Platform as a Service (PaaS) architecture.

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## CHALLENGE

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### Lack of enforced structure

in data storage and the necessity of data processing optimization.

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## CHALLENGE

### Disconnected data ecosystem

requiring a consolidated solution and ensuring consistent data governance & normalization across all applications.

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## CHALLENGE

## CHALLENGE

### Inflexible API definitions

that challenged integrations with external partners.

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## CHALLENGE

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## CHALLENGE

# Our Approach & Solutions. Having the experience of managing the customer's Enterprise Applications and a proven track

record of moving Enterprise customers to a Cloud infrastructure, RIA partnered with our customer in defining & implementing a Cloud migration approach to simplify the IT landscape, reduce costs and improve the critical business applications and services. Driven by the goal of balancing the integrity of critical production services and the increasing demand for agility and fast-to-market feature delivery, we have structured our efforts in 2 phases:

**PHASE 01**    **Infrastructure Migration**  
from a commercial web server to a community distribution to reduce licensing & operating costs

**PHASE 02**    **Application Ecosystem Transformation**  
moving to Spring Boot and OpenShift to enable better scalability and improve performance across all customer facing applications

In our digital modernization approach, we have actively transformed & enhanced various applications and services and successfully improved critical parts of the business as follows:

**01**    **World-leading GIS solution**  
to drive innovation in a route management application by rewriting existing integration points and enhancing route planning, achieving optimized timeoptimized delivery time.

**02**    **Optimizing order management**  
integrating a high throughput document storing & processing component that optimizes order management and ensures fast & reliable access to business critical data.

**03**    **Quote generation application**  
delivering a quote generation application used in order management for providing tailored pricing based on routes truckload and shipment type.

**04**    **Business services**  
such as pick-up creation, track & trace capability deployed in a private Cloud environment to critical applications through modern APIs.

## **Technologies.** Below is the technology stack used across the solution landscape.

Leveraging the open-source and Cloud technology stack enabled the migration and transformation proposed in the two phases by our team, achieving business goals as reduced costs and improved critical business applications and services.

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**Red Hat OpenShift**

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**Spring Boot**

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**JBoss**

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**SQL Server**

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**Oracle Database**

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**TeamCity**

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**Jenkins**

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**Sonarqube**

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**Angular**

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**Node.js**

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## Results. Innovation & value generation.

Accomplished innovation & value generation by leveraging our senior expertise in all stages of the end-to-end solution delivery.

### RIA ENGAGEMENT

**1.5**

years of successful collaboration



**20k**

hours subject matter expertise



**100+**

migrated applications



**20+**

new services



### Decreased operating expenses

by optimizing the development & eliminating commercial licensing, and speeding up the deployment process.

### Efficient allocation of resources

ensured high scalability, flexibility of deployment, performance optimization and efficient allocation of resources by using a PaaS approach to dynamically scale environments according to business needs and commercial objectives.

### No vendor lock-in

accelerated application development resulting in a lower lead time, a faster Go-to-Market and guaranteed no vendor lock-in.

## **100+ applications**

architected a vision that is sustainable in the context of an ecosystem of 100+ applications and web services.

## **Reduced the Technical Debt**

by setting the foundation for a future proof Microservices architecture.

## **Business operations**

enabled stability & continuity of regular business operations through a “Lift and Shift” approach while enforcing parity between old and new applications.

# Looking for a business solution? Find out how we can put solutions like this to work out for you. Get in touch with us.

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Visit our website for more insight into our business and technical capabilities, what fuels the energy behind our talent and other ways we strive to make an impact in the lives of our customers and their businesses.

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