# Unleashing Data-Driven Success with AWS and Nihilent Data Lake Platform

## Context:

A leading quick service restaurant chain in India faced operational challenges due to manual ingredient indenting processes.

These inefficiencies resulted in:
- Accuracy issues in inventory planning
- Increased wastage
- Loss of productivity
- Frequent stock-outs impacting sales and customer satisfaction

To address these challenges, Nihilent and AWS partnered to transform the organization's data and inventory management capabilities. The objective was to ensure precise ingredient planning, reduce waste, and enhance customer experience across store locations nationwide.

## Solution:

Nihilent designed and implemented a robust Data Lake Platform built on AWS to revolutionize enterprise data access, analysis, and decision-making.

**Technology Stack**

- AWS Glue
- Amazon S3
- Amazon RDS Aurora (read and write replicas)
- AWS Lake Formation

aws

Nihilent
evolving ideas

/ Humanizing Technology

The solution enabled the organization to establish a strong data-driven foundation and gain actionable insights across critical business functions, including:
- Inventory allocation
- Invoice management
- Discount tracking
- Store-level performance monitoring

At the store level, the platform provided enhanced visibility into:
- Stock-outs
- Inter-store transfers
- Ingredient wastage

With advanced data processing capabilities and the scalability of AWS, the platform delivered high performance, flexibility, and secure analytics. This empowered leadership teams to make informed, data-backed decisions while supporting business growth at scale.
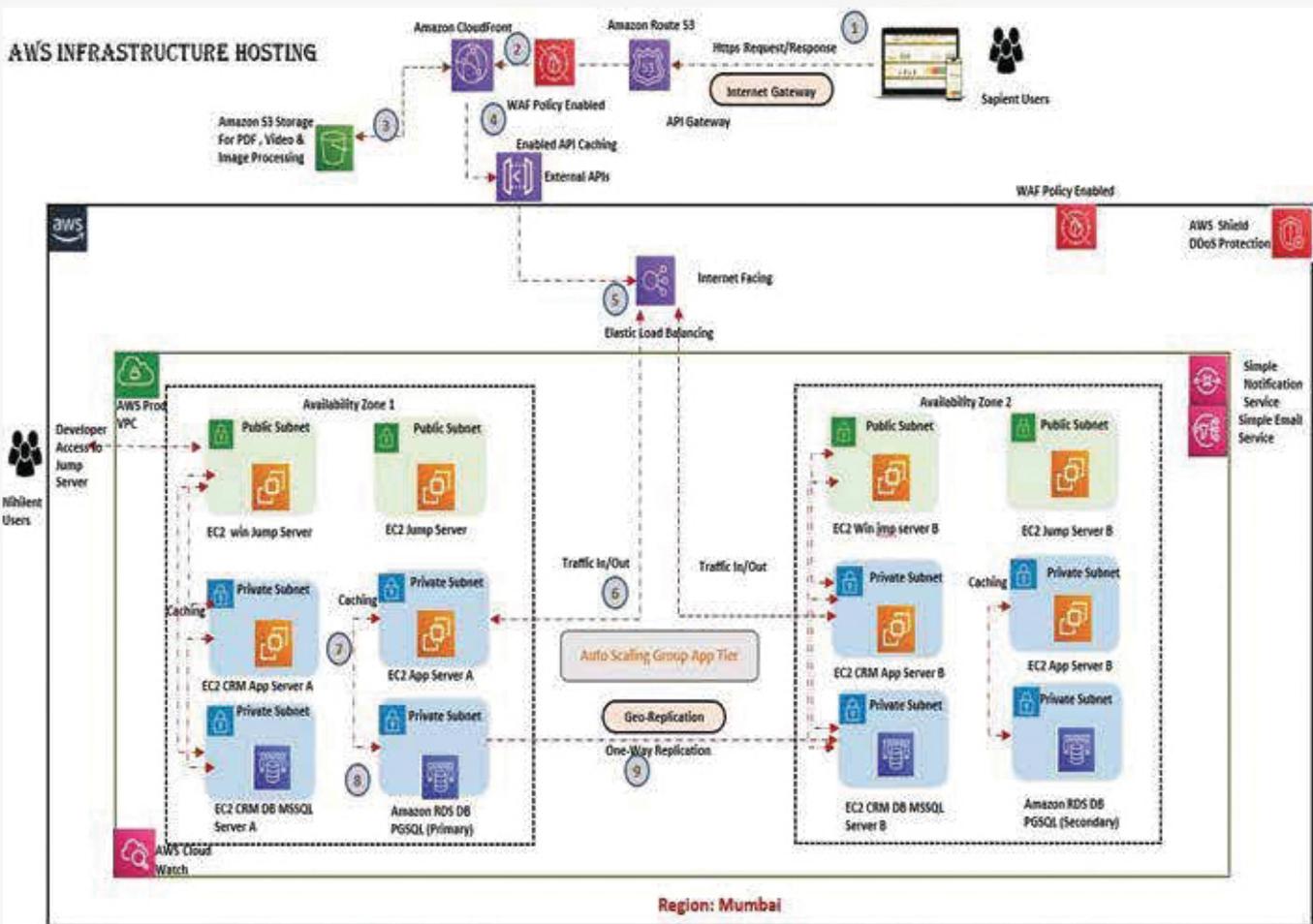
# Result:

Within six months of implementation, the transformation delivered measurable business impact:
- 38 percent improvement in daily inventory accuracy
- 36 percent reduction in stock-outs
- 39 percent decrease in inter-store transfers

The Data Lake Platform enabled operational efficiency, improved inventory precision, and enhanced overall customer satisfaction.

# Conclusion:

Nihilent successfully delivered a scalable, secure, and high-performance Data Lake Platform on AWS for a leading quick service restaurant brand in India.

The initiative not only resolved operational inefficiencies but also laid the foundation for sustained, data-driven growth.

By leveraging AWS capabilities and Nihilent's deep data engineering expertise, the organization unlocked the full potential of its data assets and transitioned into a new era of intelligent decision-making.