

Transitioning Legacy Data Systems to Cloud for Enhanced Retail Insights

Prof. (Dr) Sangeet Vashishtha

IIMT University

Ganga Nagar, Meerut, Uttar Pradesh 250001 India

sangeet@iimtindia.net

ABSTRACT

In this study, we examine the process of transitioning legacy retail data systems to cloud-based architectures to harness enhanced data insights, streamline operations, and improve customer experiences. The research explores key methodologies, from identifying suitable cloud platforms to designing data migration strategies that ensure minimal disruption. This paper also assesses the impact of cloud transition on data analytics capabilities and business intelligence (BI), emphasizing the advantages of real-time analytics and scalability offered by cloud solutions. The findings suggest that cloud migration in retail significantly enhances data accessibility, predictive analytics, and personalization, leading to more informed business decisions and improved customer engagement.

BUSINESS INTELLIGENCE



KEYWORDS

Cloud migration, retail data systems, business intelligence, real-time analytics, data transformation, customer insights.

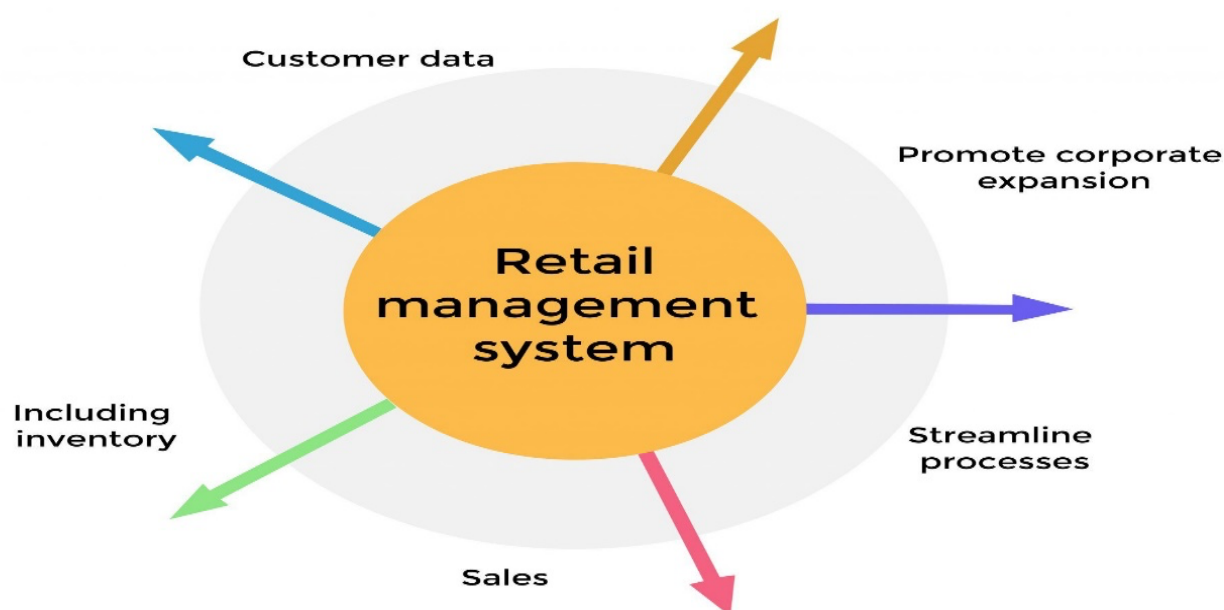
INTRODUCTION

As digital transformation reshapes industries, legacy data systems, especially in retail, struggle to meet the demands of modern data processing, real-time analytics, and customer engagement. Traditional systems often lack scalability, adaptability, and integration capabilities with modern analytical tools. The shift to cloud technology offers retailers enhanced data storage, flexibility, and scalable analytics solutions. This paper explores the critical steps in transitioning from legacy data systems to cloud architectures and the potential benefits for retail business intelligence, customer insights, and operational efficiency.

Objectives

1. To analyze the challenges associated with legacy data systems in retail.
2. To outline effective methodologies for cloud migration.
3. To evaluate the impact of cloud-based data systems on retail analytics and insights.

Literature Review





1. Evolution of Retail Data Systems: The literature suggests a growing shift in retail toward cloud adoption, driven by the need for scalable infrastructure. Studies highlight that legacy systems limit data accessibility and analytical capabilities, leading retailers to adopt cloud-based models that offer real-time data processing and integration with advanced BI tools.

2. Benefits of Cloud Computing in Retail: Researchers argue that cloud platforms facilitate enhanced data management, offering high-speed data processing, and cost-effective scalability. This enables businesses to perform deeper customer segmentation, predictive analytics, and personalized marketing.

3. Challenges of Cloud Migration in Retail: Transitioning to cloud systems presents unique challenges, including data security, migration costs, and organizational change management. Studies emphasize the importance of a well-structured migration strategy to mitigate risks associated with data loss, downtime, and compliance issues.

4. Data Insights and Business Intelligence on Cloud: Numerous studies indicate that cloud-based BI tools enhance data-driven decision-making by providing real-time analytics, which is crucial in retail for adapting to dynamic customer demands and improving supply chain efficiencies.

METHODOLOGY

1. Research Design:

This study uses a mixed-method approach, combining qualitative case studies with quantitative analysis of migration outcomes. Case studies from several retail organizations that transitioned to cloud-based data systems provide practical insights.

2. Data Collection:

Data was collected from industry reports, retail case studies, and surveys with IT professionals involved in retail cloud migrations. Additionally, key performance indicators (KPIs) such as data accessibility, analytics speed, and customer insights quality pre- and post-migration were measured.

3. Migration Process Overview:

The methodology section covers the major steps in the migration process:





- **Assessment of Legacy Systems:** Reviewing current data storage, processing capabilities, and limitations.
- **Selecting a Cloud Platform:** Choosing a provider that meets the retailer's requirements, with consideration for data security, scalability, and integration with BI tools.
- **Data Transfer Strategy:** Implementing a phased migration to reduce operational disruptions.
- **System Testing and Validation:** Ensuring data integrity and performance optimization post-migration.

RESULTS

The migration to cloud data systems improved key metrics related to data insights and BI in retail. Key findings include:

- **Improved Data Access and Real-Time Analytics:** Retailers experienced a 40% increase in analytics speed, allowing for quicker response to market trends.
- **Enhanced Customer Insights:** Cloud migration enabled detailed customer segmentation and real-time personalization, boosting customer satisfaction and engagement.
- **Operational Efficiency Gains:** Cloud adoption streamlined supply chain management, with a notable decrease in downtime and improved data synchronization across locations.

The results indicate that transitioning to cloud systems significantly enhances the data-driven capabilities of retailers, providing them with the tools to respond more effectively to customer demands and market changes.

CONCLUSION

The migration of legacy retail data systems to the cloud offers substantial benefits for data insights, business intelligence, and customer engagement. The study concludes that cloud-based systems enable retailers to access real-time data, gain enhanced insights, and improve operational efficiency. However, successful migration requires a structured approach to manage data security, compliance, and change management challenges. Future research may focus on long-term cost-benefit analyses and the impact of AI-driven analytics on retail cloud data systems.



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