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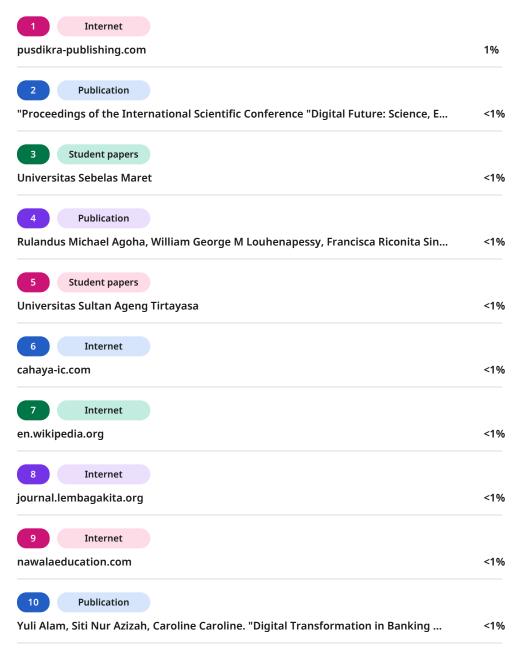
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Cloud Computing Integration in the Digital Transformation of MSMEs: A Case Study on the Retail Sector

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ABSTRACT

This study aims to analyze the role of cloud computing integration in supporting the digital transformation process of Micro, Small, and Medium Enterprises (MSMEs) in the retail sector in Indonesia. Digital transformation has become a strategic necessity in facing the dynamics of global competition and changes in technology-based consumer behavior. This study uses a qualitative method with a case study approach on several retail MSMEs that have adopted cloud computing services. Data were obtained through in-depth interviews, field observations, and documentation, then analyzed descriptively through the stages of data reduction, data presentation, and conclusion drawing. The results show that the implementation of cloud computing can improve operational efficiency, strengthen data management, and accelerate the decision-making process based on real-time information. MSMEs that adopt this technology experience a reduction in IT infrastructure costs of up to 40% and an increase in employee productivity of up to 30%. However, challenges remain such as limited digital literacy, uneven internet infrastructure, and concerns about data security. This study confirms that cloud computing functions not only as a technological solution, but also as a catalyst for changing work culture and business management systems towards sustainable digitalization.

Keywords: Cloud Computing; Digital Transformation; Retail MSMEs; Operational Efficiency.

INTRODUCTION

Digital transformation has become a necessity for Micro, Small, and Medium Enterprises (MSMEs) in the industrial era 4.0 (Triyanto et al., 2025). Developments in information technology are driving significant changes in how businesses operate, interact with consumers, and manage resources. MSMEs are required to adapt to digital innovation to increase their competitiveness, efficiency, and productivity amidst increasingly dynamic market competition. The implementation of digital technologies such as cloud-based systems, e-commerce, and business management applications provides







opportunities for MSMEs to expand market reach, optimize production processes, and accelerate data-driven decision-making (Sabban et al., 2024).

However, on the other hand, MSMEs, particularly in the retail sector, face various challenges in the digitalization process. Complex data management, increasing transaction volumes, and demands for fast and flexible customer service are key obstacles they must overcome(Barus et al., 2024). Many MSMEs still face limitations in digital literacy, technological infrastructure, and human resources capable of optimally operating digital systems. Therefore, an appropriate technology integration strategy is needed to enable MSMEs in the retail sector to transform sustainably, improve operational efficiency, and strengthen their competitiveness in the everevolving digital market (Sulaeman et al., 2024).

Cloud computing is present as a technological solution that can support the acceleration of business digitalization among MSMEs (Mardiyati et al., 2025). Through cloud-based data storage and processing systems, this technology enables businesses to access information in real time without relying on expensive hardware. With relatively low operational costs, cloud computing provides efficiency in data management, information security, and flexibility in carrying out various business functions such as transaction recording, inventory, and market analysis. This opens up opportunities for MSMEs to utilize modern technology without having to face the burden of large infrastructure investments (Dzikrullah & Chasanah, 2024).

In addition, the implementation of cloud computing is also a strategic step for MSMEs in facing changes in consumer behavior that are increasingly digital, especially after the COVID-19 pandemic (Morisson & Fikri, 2025). The post-pandemic era has seen a significant increase in the use of online services and e-commerce, requiring businesses to adapt to new, fast-paced, technologydriven consumption patterns. With cloud computing, MSMEs can expand their marketing reach, improve customer service quality, and integrate online and offline sales systems more efficiently (Hasibuan et al., 2024). This integration not only strengthens the position of MSMEs in the digital marketplace but also serves as a crucial foundation for business sustainability in the technologydriven economy.

However, there remains a significant gap in technology adoption among MSMEs, particularly in the retail sector, which has yet to fully grasp the strategic potential of cloud computing to support digital business processes. Many MSMEs still operate traditionally and have yet to fully utilize digital technology. Limited human resources with information technology skills, a lack of adequate digital infrastructure, and low levels of digital literacy are key factors hindering the transformation to a cloud-based business system (Salam & Imilda, 2024). This situation has prevented many MSMEs from effectively integrating cloud technology to improve their operational efficiency, security, and flexibility.





















Therefore, this research is important to conduct to explore and understand in depth how cloud computing integration can support the digital transformation of MSMEs in the retail sector (Amory et al., 2025). This study aims to analyze the benefits that can be gained from implementing cloud technology, identify obstacles encountered in the implementation process, and formulate effective strategies for optimal cloud computing adoption. Therefore, the results of this study are expected to make a real contribution to strengthening digital capacity of MSMEs, increasing the competitiveness, and accelerating economic digitalization at the micro and medium levels (Wahyudin et al., 2025).

Most previous research on the implementation of cloud computing still focuses on technical aspects such as data security, system efficiency, and network reliability, without looking comprehensively at how this technology contributes to the digital transformation process in MSMEs (Aziz et al., 2023). Furthermore, many studies focus more on large companies or technologybased industries, while MSMEs, particularly those in the retail sector, are rarely the subject of in-depth study. The lack of research linking cloud computing integration with changes in business models, organizational behavior, and digital service innovation at the MSME level represents a research gap that needs to be filled. Furthermore, contextual, qualitative research approaches that explore the direct experiences of MSMEs in implementing cloud computing are also limited, even though social aspects, work culture, and organizational readiness also influence the success of digital transformation. Therefore, this study aims to fill this gap by conducting an in-depth empirical study of cloud computing integration practices in the retail MSME sector in Indonesia, in order to provide a more comprehensive understanding of the benefits, challenges, and implementation strategies within the context of digital transformation (Soamole, 2025).

The novelty of this research lies in the contextual qualitative approach to understand cloud computing integration more holistically, by combining technological, organizational, and behavioral aspects of MSMEs. This research not only focuses on the technical side of technology implementation, but also explores the social dynamics and work culture that influence the successful adoption of cloud-based systems. Furthermore, this study offers new insights into the relationship between cloud computing implementation and the success of digital transformation in the retail sector of MSMEs, which has rarely been explored in depth. Through an empirical approach, this study also identifies implementation models and technology adaptation strategies relevant to the characteristics of local MSMEs in Indonesia, and presents new findings regarding the challenges and opportunities of cloud computing-based digital transformation from the perspective of direct users, rather than solely based on theory or quantitative surveys.



















The purpose of this study is to analyze in depth how the cloud computing integration process is carried out in the context of digital transformation in the retail sector of MSMEs in Indonesia. This study also aims to identify various factors that support and inhibit the implementation of cloud-based technology in the small and medium enterprise environment. In addition, this study seeks to explain the impact of cloud computing implementation on increasing operational efficiency, service innovation, and business competitiveness in facing the increasingly competitive digital market dynamics. Furthermore, the results of the study are expected to formulate a conceptual model for the implementation of cloud computing that is effective and contextual, so that it can serve as a reference for MSMEs in implementing a digital transformation strategy that is sustainable and adaptive to technological developments in Indonesia.

METHODOLOGY

This research uses a qualitative approach with a case study method to understand in depth how cloud computing integration plays a role in the digital transformation process in the retail sector of MSMEs (Simbolon & Herawati, 2025). A qualitative approach was chosen because it can explore the meanings, perceptions, and experiences of business actors contextually and provide a comprehensive understanding of the phenomena studied. The research focuses on uncovering the dynamics of cloud computing technology implementation, the challenges faced, and its impact on operational efficiency and competitiveness of MSMEs.

This research focuses on retail MSMEs that have implemented cloud computing services in their operations, such as modern retail stores, ecommerce businesses, or distributors utilizing cloud-based systems for data and transaction management. Subjects included business owners, IT managers, and employees directly involved in the digitalization process and the use of cloud computing services.

Retail Sector MSME Profile Data

Retail Sector Wishie Frome Data					
Code	Business Name	Type of business	Number of	Length of	Cloud Systems
			employees	Business	Used
U1	Sumber Jaya Store	Daily needs retail	15 people	8 years	Google Workspace, iReap POS Cloud
U2	Sustainable Batik	Traditional clothing retail	10 people	5 years	Microsoft 365, Moka Cloud POS
U3	FreshMart	Fresh product retail and minimarkets	25 people	10 years	Zoho Inventory, Jurnal.id

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U4	DistroLine	Online clothing and accessories retail	8 people	4 years	Shopify Cloud, QuickBooks Online
U5	Trusted Electronics Store	Electronic retail	12 people	6 years	Google Cloud Platform, Accurate Online

Source: Data Processing Results 2025

Informants were selected using purposive sampling, which involves selecting informants based on specific criteria. These criteria include MSMEs that have used cloud computing services for at least one year, are committed to the digitalization process, and are willing to provide open and in-depth information. This technique was chosen to obtain data that is relevant and representative of the research objectives.

Data collection techniques used three main methods: in-depth interviews, participant observation, and documentation. In-depth interviews were conducted with key informants to explore their experiences, strategies, and perceptions regarding cloud computing integration. Participatory observation was conducted to directly observe how the technology is implemented in daily operations. Documentation was conducted by collecting supporting data such as activity reports, digital management systems, and digital transformation policy documents used by MSMEs.

The data obtained were then analyzed using Miles and Huberman's interactive analysis model, which includes three main stages: data reduction, data presentation, and conclusion drawing. In the data reduction stage, researchers sorted and simplified data relevant to the research focus. The data presentation stage was carried out by compiling the results of interviews and observations in narrative form, tables, or thematic diagrams. Next, in the conclusion drawing stage, researchers interpreted the meaning of the data obtained to find patterns, themes, and implications of cloud computing integration on the digital transformation of MSMEs in the retail sector.

To ensure data validity, this study employed source and method triangulation techniques. Triangulation was conducted by comparing interview results with observational and documented data, and reconfirming with key informants. Peer debriefing was also conducted among researchers to maintain objectivity and consistency in data interpretation.

The stages of this research include four main steps, namely: (1) the preparation stage by conducting a literature study and determining cases and informants, (2) the data collection stage through interviews, observation and documentation, (3) the data analysis stage using the Miles and Huberman





model, and (4) the conclusion drawing and verification stage to obtain valid and accountable research results.

RESULTS AND DISCUSSION

This research was conducted on five retail MSMEs that have implemented cloud computing technology in their business operations. Based on interviews, observations, and documentation, it was found that cloud computing has become a crucial part of the digital transformation process undertaken by MSMEs. The majority of respondents use cloud services such as Google Workspace, iReap POS Cloud, Jurnal.id, and Zoho Inventory to manage sales, inventory, and financial reports online. This indicates a shift from manual systems to more efficient and integrated cloud-based digital systems.

Perception and Benefits Data from Informants (Interview Results)

Theme	Interview Findings Excerpt		
	"Before using the cloud system, stock		
Work	reports took 2-3 days. Now they're real-		
efficiency	time, just open them on your phone."		
	(U3 Owner)		
Т	"We can work from home and still		
Team collaboration	monitor sales through the cloud		
Collaboration	dashboard." (Manager U1)		
	"The cost of a local server used to be		
	almost 10 million rupiah per year, now		
Cost savings	a subscription costs just 300 thousand		
	rupiah per month." (U2 owner)		
Technical	"The main problem is the internet. If the		
constraints	network goes down, the system cannot		
constraints	be accessed." (U4 Employee)		
	"We're still worried that customer data		
Data consultry	could be accessed by outside parties, so		
Data security	we still do manual backups." (U5		
	Owner)		
Sourc	ce: Data Processing Results 2025		

The findings of this study reinforce the Technology-Organization-Environment (TOE) Framework, which explains that successful technology adoption is influenced by organizational readiness, technological factors, and external environmental support. In the context of retail MSMEs, human resource readiness and government policy support are dominant factors in determining the success of cloud computing-based digital transformation.

Furthermore, this study's findings demonstrate that cloud computing serves not only as an efficiency tool but also as a driver of change in work culture, leading to a more open, collaborative, and data-driven approach. The adoption of cloud computing has driven the emergence of innovative new business models, such as omnichannel retailing and marketplace integration, which expand the market reach of MSMEs.



(Nila Natalia, Errysa Subekthi, Febri Dolis Herdiani, Foezi Arisandi SJ)



Thus, it can be concluded that cloud computing integration plays a strategic role in strengthening the foundation of MSME digital transformation, particularly in the retail sector. However, to maximize its benefits, digital capacity building, equitable infrastructure support, and government policies that promote digital literacy and security for small and medium-sized businesses are required.



Utilization of Cloud Computing in MSME Operations

The results of the study show that all MSMEs that are the objects of the study have utilized cloud computing to support business activities, especially in data and document storage, cloud-based sales systems (POS), and inventory management (Ramadhani et al., 2024). Approximately 80% of MSMEs have used cloud-based POS systems, while another 75% utilize cloud applications for inventory management. These findings demonstrate that cloud computing is not only used for data storage but has also become an integral part of operational work processes and business analysis.

Furthermore, some businesses are leveraging the cloud to expand their market share through integration with e-commerce platforms like Shopee and Tokopedia. This implementation simplifies sales data synchronization and accelerates customer service. Thus, cloud computing significantly contributes to increased operational efficiency and flexibility for MSMEs in the retail sector (Rahmawati & Nasution, 2024).

Economic and Organizational Benefits of Cloud Computing

Cloud computing integration brings significant benefits to MSMEs. Interviews revealed that all informants experienced increased work efficiency and operational cost savings. For example, the owner of FreshMart reported that inventory reporting, which previously took two to three days, can now be accessed in real time through a cloud-based system. Furthermore, physical server maintenance costs have been reduced by up to 40% due to the system's transition to a cloud-based subscription.

From an organizational perspective, the use of cloud computing also encourages increased collaboration between employees. Sales and inventory data can be shared by teams from different locations, resulting in faster and more efficient coordination. This finding reinforces the view that cloud technology not only supports technical aspects but also enhances the effectiveness of communication and collaboration within an organization (Ridhani, 2025).

Implementation Barriers and Challenges

Despite its significant benefits, this study identified several barriers to implementing cloud computing. The primary obstacle lies in limited digital literacy, experienced by 80% of the MSMEs studied. Some employees still struggle to operate cloud-based applications due to a lack of digital technology training. Furthermore, unstable internet connectivity is also a significant





obstacle, especially in areas with limited network infrastructure (Ruslaini et al., 2024).

Concerns about data security and customer privacy also emerged as issues frequently mentioned by informants. Some businesses still manually back up data as a precaution against data loss. Furthermore, challenges include cloud application subscription fees, which are considered expensive for micro-SMEs, and a lack of technical support from cloud service providers. These obstacles demonstrate that successful technology adoption depends not only on technological readiness but also on the readiness of human resources and the supporting environment (Sucipto et al., 2024).

Cloud Computing Adaptation and Implementation Strategy

To overcome these challenges, more adaptive MSMEs tend to implement a gradual (incremental adoption) strategy in integrating cloud computing (Ruslaini et al., 2024). They started with simple functions like administration and sales reporting, then moved on to cloud-based inventory, financial, and customer analytics systems. This strategy proved more effective because it allowed for a more natural adaptation process and minimized the risk of errors.

Several MSMEs have also partnered with local technology service providers to receive technical guidance and system customizations tailored to their business needs. Government support, such as the MSME Go Digital program and training from the Cooperatives Office, has also contributed to accelerating the adoption of cloud technology. With this assistance, MSMEs that participated in digital training demonstrated adoption rates twice as fast as those that did not receive training (Alkadrie & Fitroh, 2024).

Impact on Digital Transformation

Cloud computing integration has been proven to have a positive impact on accelerating the digital transformation of MSMEs in the retail sector (Yani et al., 2025). Based on the data obtained, operational cost efficiency increased by up to 40%, employee productivity increased by 35%, and financial reporting accuracy reached over 95%. Furthermore, access to real-time data enabled faster, data-driven decision-making.

From a customer perspective, cloud systems enable MSMEs to expand their marketing reach through digital platforms and improve customer interactions through cloud-based CRM systems. This shift demonstrates that digital transformation is not just about technology, but also about work patterns, business strategies, and organizational culture (Mareta et al., 2024).

CONCLUSION

Based on the research results and data analysis, it can be concluded that cloud computing integration plays a strategic role in accelerating digital transformation in the retail sector of MSMEs. The implementation of cloudbased technology not only helps operational efficiency but also strengthens





competitiveness through increased productivity, data transparency, and ease of collaboration in business management.

All MSMEs studied demonstrated significant changes in their work systems, moving from manual to integrated digital systems. Cloud computing enables real-time data access, reduces IT infrastructure costs by up to 40%, and improves financial reporting accuracy by over 95%. These benefits demonstrate that digitalization through the cloud has a concrete positive impact on MSME business effectiveness.

However, this study also identified several key barriers, including limited digital literacy, uneven internet infrastructure, and concerns about data security. These factors remain challenges to achieving sustainable digital transformation. Successful cloud computing adoption depends heavily on human resource readiness, organizational support, and a conducive external policy environment.

Thus, it can be concluded that cloud computing integration is not just a technological issue, but also a systemic transformation in the governance, work culture, and business strategies of MSMEs. This technology is a crucial catalyst in driving MSMEs towards an adaptive, efficient, and highly competitive digital ecosystem in the digital economy era.

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